

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P402598

Luminaire Tested: **GAN-AF-04-LED-U-SL4-AMB**

Issue Date: 6/8/2020

Test Information

Test Method: LM-79-08
Report Number: P402598
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-18)
Test Lab: INNOVATION CENTER
Issue Date: 6/8/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-SL4-AMB
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4024 lumens
Efficiency: N/A
Efficacy: 50.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

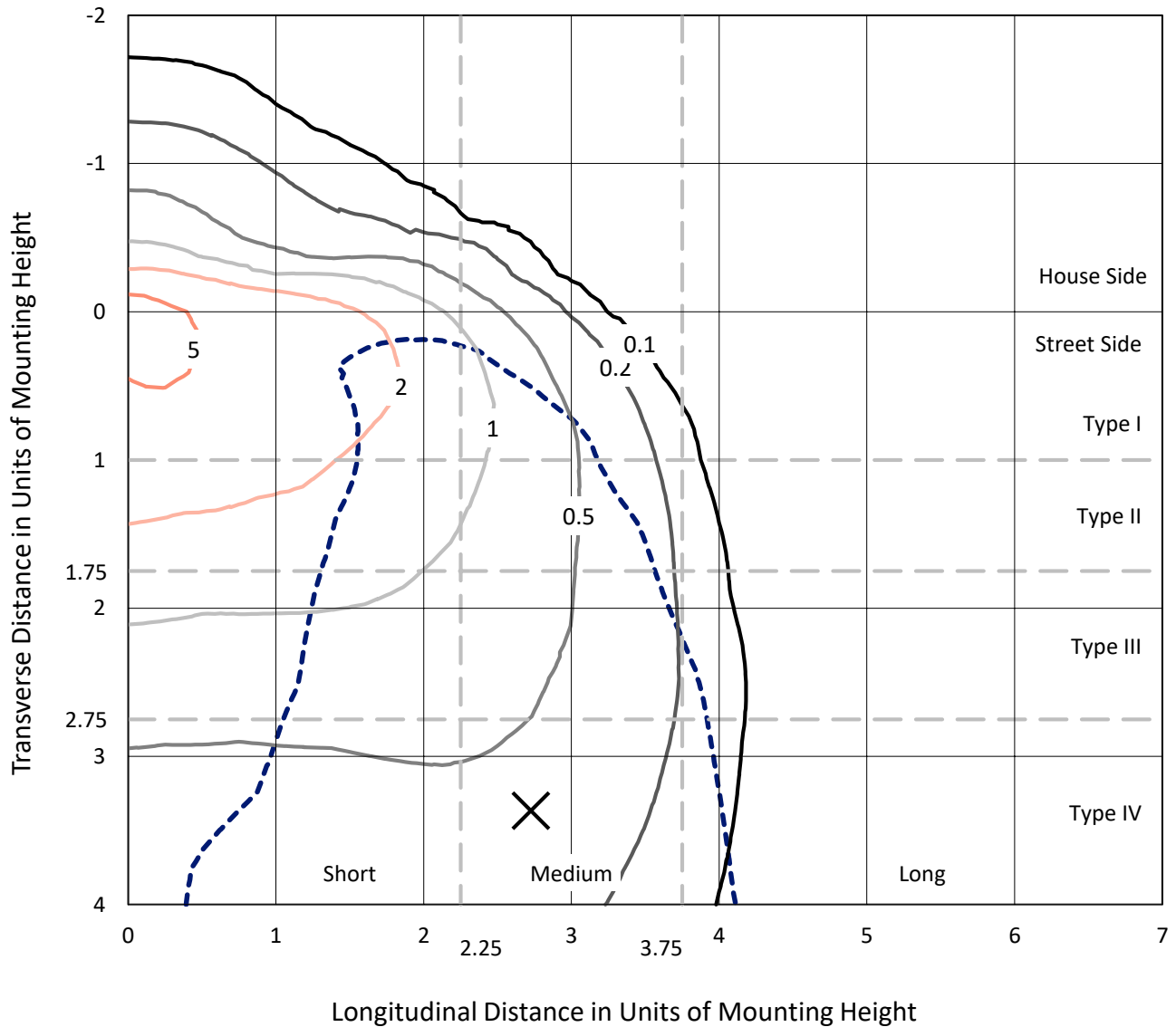
Input Watts (W): 79.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P402598
 CATALOG NUMBER: GAN-AF-04-LED-U-SL4-AMB

Iso-Footcandle Lines of Horizontal Illumination

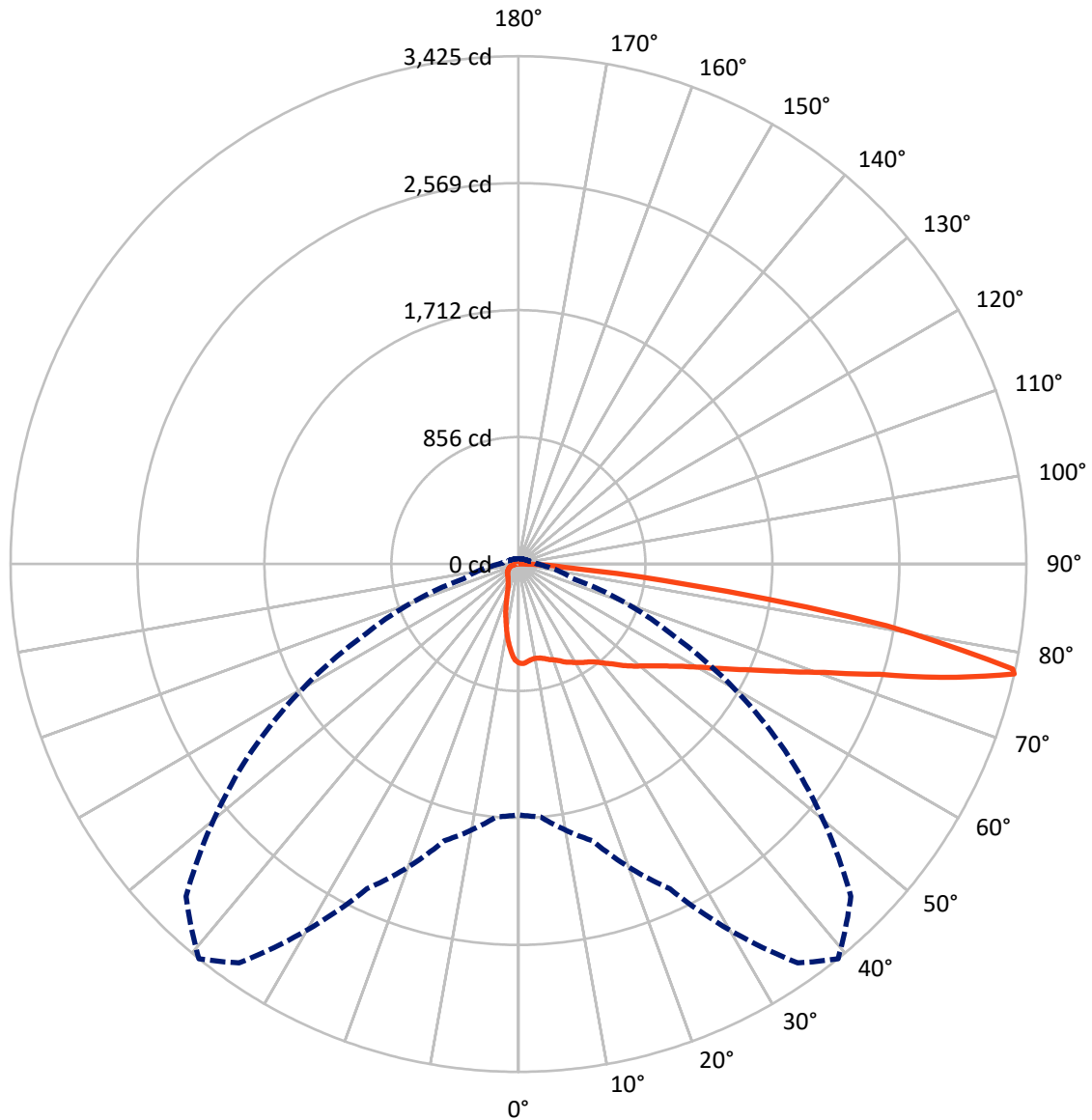
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P402598
CATALOG NUMBER: GAN-AF-04-LED-U-SL4-AMB

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 77-Deg Vertical

REPORT NUMBER: P402598

CATALOG NUMBER: GAN-AF-04-LED-U-SL4-AMB

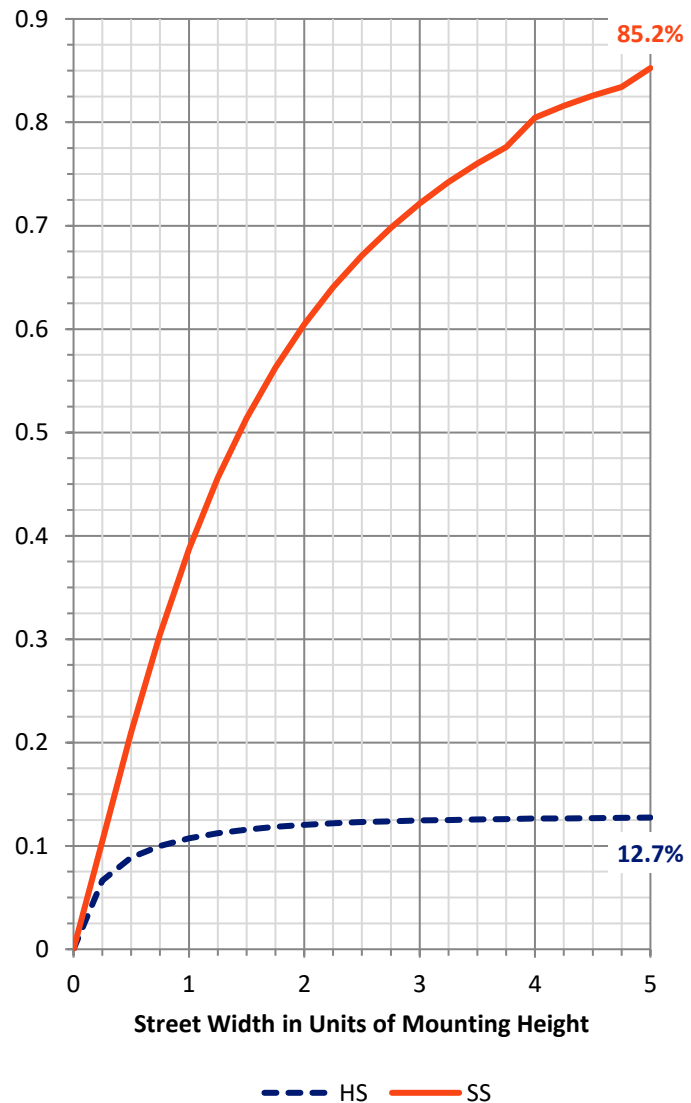
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	519.2	0.0	519.2
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	3504.8	0.0	3504.8
	% Fixture	87.1	0.0	87.1
Total	Lumens	4024.0	0.0	4024.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.4	1.5
10°-20°	146.5	3.6
20°-30°	223.9	5.6
30°-40°	322.0	8.0
40°-50°	467.5	11.6
50°-60°	671.0	16.7
60°-70°	924.2	23.0
70°-80°	997.2	24.8
80°-90°	213.3	5.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4024.0	100.0
0°-180°	4024.0	100.0

Coefficient of Utilization



REPORT NUMBER: P402598

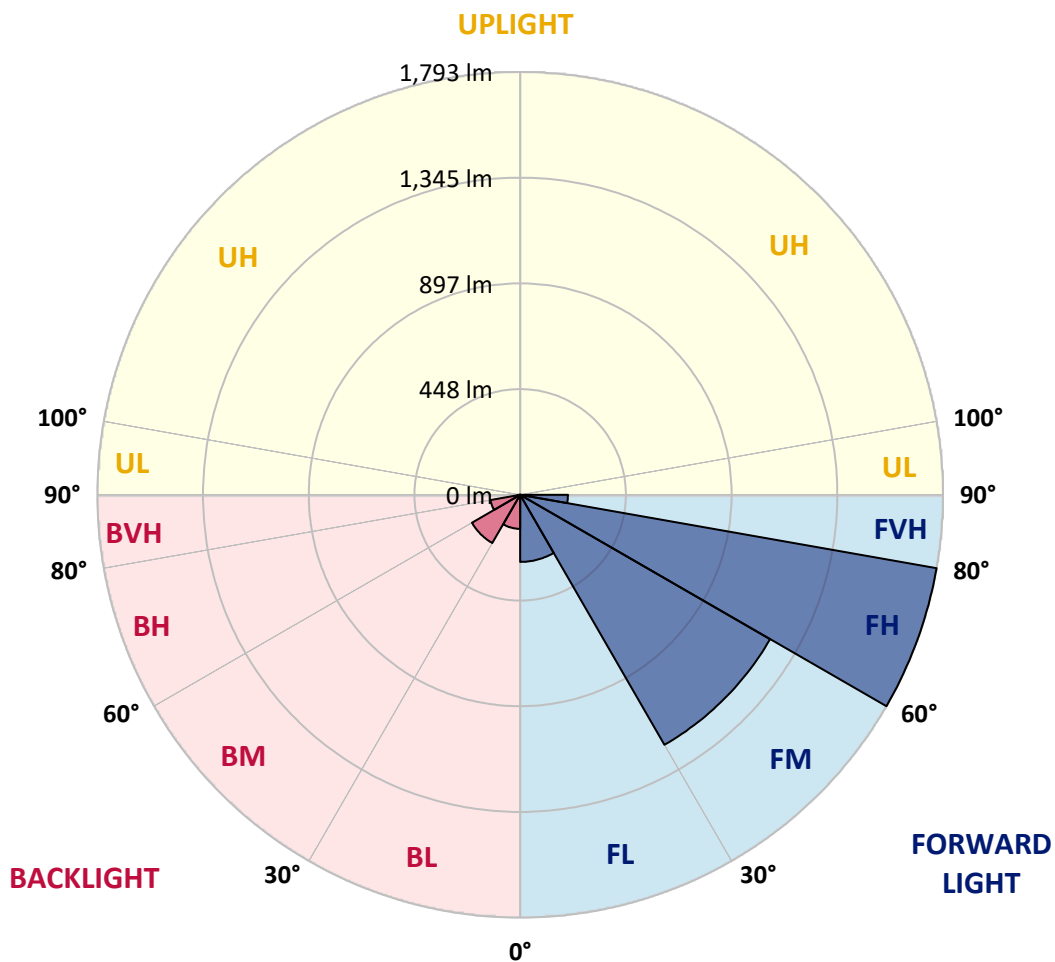
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	284.6	7.1			
FM (30°-60°)	1224.2	30.4			
FH (60°-80°)	1793.5	44.6			G1/1800
FVH (80°-90°)	202.6	5.0			G2/225
BL (0°-30°)	144.2	3.6	B1/500		
BM (30°-60°)	236.3	5.9	B1/1000		
BH (60°-80°)	127.9	3.2	B1/500		G1/500
BVH (80°-90°)	10.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium





REPORT NUMBER: P402598

CATALOG NUMBER: GAN-AF-04-LED-U-SL4-AMB

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	668.7	668.7	668.7	668.7	668.7	668.7	668.7	668.7	668.7	668.7	668.7
2.5°	675.9	670.5	670.5	675.9	672.3	672.3	668.7	672.3	668.7	665.1	668.7
5°	666.9	663.3	661.5	666.9	663.3	659.7	663.3	661.5	659.7	652.4	652.4
7.5°	650.6	647.0	647.0	652.4	654.2	648.8	650.6	652.4	647.0	639.8	641.6
10°	636.2	634.4	638.0	645.2	648.8	645.2	648.8	647.0	639.8	632.6	630.7
12.5°	625.3	623.5	628.9	643.4	650.6	650.6	652.4	647.0	641.6	632.6	625.3
15°	618.1	618.1	628.9	647.0	657.9	661.5	663.3	659.7	647.0	634.4	625.3
17.5°	621.7	619.9	634.4	656.0	668.7	677.7	677.7	672.3	656.0	639.8	628.9
20°	630.7	627.1	645.2	672.3	688.6	690.4	694.0	683.2	666.9	648.8	636.2
22.5°	634.4	643.4	663.3	694.0	703.0	708.5	708.5	697.6	674.1	661.5	647.0
25°	663.3	665.1	688.6	715.7	724.7	732.0	728.3	704.8	685.0	677.7	665.1
27.5°	694.0	695.8	719.3	739.2	744.6	750.0	751.8	719.3	699.4	697.6	681.3
30°	721.1	728.3	751.8	766.3	766.3	771.7	769.9	741.0	719.3	722.9	706.6
32.5°	768.1	766.3	789.8	791.6	782.6	791.6	791.6	759.1	744.6	760.9	735.6
35°	807.9	815.1	825.9	816.9	804.2	811.5	815.1	784.4	777.1	809.7	782.6
37.5°	862.1	856.7	862.1	845.8	827.7	836.8	845.8	818.7	822.3	869.3	835.0
40°	903.6	894.6	898.2	876.5	858.5	876.5	885.6	860.3	876.5	952.4	910.9
42.5°	938.0	930.8	923.5	910.9	896.4	919.9	934.4	914.5	948.8	1044.6	1004.9
45°	961.5	956.1	945.2	943.4	945.2	974.1	992.2	975.9	1022.9	1160.3	1109.7
47.5°	975.9	970.5	972.3	975.9	990.4	1028.3	1060.9	1044.6	1120.5	1281.4	1209.1
50°	995.8	986.8	988.6	1019.3	1041.0	1080.8	1133.2	1125.9	1225.3	1409.7	1317.5
52.5°	1021.1	1006.7	1006.7	1060.9	1095.2	1140.4	1207.3	1216.3	1333.8	1541.6	1427.8
55°	1062.7	1044.6	1032.0	1106.1	1165.7	1214.5	1292.2	1332.0	1451.3	1679.0	1529.0
57.5°	1107.9	1089.8	1069.9	1163.9	1243.4	1301.2	1389.8	1447.6	1585.0	1801.9	1601.3
60°	1178.4	1145.8	1125.9	1238.0	1351.9	1411.5	1519.9	1594.0	1726.0	1913.9	1666.3
62.5°	1229.0	1203.7	1198.2	1332.0	1485.6	1554.3	1657.3	1735.0	1856.1	2022.4	1722.3
65°	1281.4	1266.9	1268.7	1433.2	1644.6	1720.5	1832.6	1915.7	2024.2	2121.8	1727.8
67.5°	1355.5	1341.0	1371.7	1556.1	1829.0	1928.4	2042.2	2114.5	2183.2	2138.0	1630.2
70°	1453.1	1435.0	1491.0	1704.3	2058.5	2186.8	2316.9	2394.7	2260.9	2082.0	1317.5
72.5°	1554.3	1541.6	1633.8	1915.7	2380.2	2544.7	2692.9	2649.5	2298.9	1785.6	858.5
75°	1677.2	1680.8	1829.0	2188.6	2893.5	3050.7	3175.4	2747.1	1941.0	1055.5	327.1
77°	1691.6	1711.5	1932.0	2416.3	3283.8	3424.8	3170.0	2194.0	1167.5	377.7	184.3
77.5°	1632.0	1650.1	1908.5	2448.9	3330.8	3408.5	3070.6	2049.5	936.2	303.6	162.7
80°	1216.3	1198.2	1480.2	2042.2	2676.6	2517.6	1838.0	795.2	272.9	157.2	99.4
82.5°	480.7	513.3	692.2	1006.7	1308.5	1149.4	688.6	347.0	164.5	84.9	41.6
85°	222.3	238.6	260.2	267.5	338.0	348.8	258.4	321.7	119.3	39.8	25.3
87.5°	162.7	169.9	191.6	169.9	164.5	155.4	189.8	350.6	59.6	23.5	12.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P402598

CATALOG NUMBER: GAN-AF-04-LED-U-SL4-AMB

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	668.7	668.7	668.7	668.7	668.7	668.7	668.7	668.7	668.7	668.7	668.7
2.5°	663.3	657.9	659.7	657.9	654.2	650.6	647.0	643.4	645.2	645.2	639.8
5°	648.8	641.6	638.0	628.9	618.1	607.2	594.6	585.6	578.3	574.7	578.3
7.5°	634.4	625.3	618.1	596.4	578.3	547.6	527.7	500.6	497.0	493.4	489.8
10°	623.5	616.3	598.2	569.3	531.3	495.2	450.0	421.1	403.0	392.2	395.8
12.5°	616.3	607.2	578.3	533.2	484.4	430.1	379.5	341.6	319.9	305.4	301.8
15°	614.5	598.2	556.6	497.0	431.9	370.5	319.9	274.7	240.4	229.5	225.9
17.5°	614.5	592.8	536.8	459.1	383.1	314.5	258.4	216.9	188.0	177.1	173.5
20°	618.1	591.0	513.3	421.1	334.3	258.4	209.6	175.3	159.0	151.8	151.8
22.5°	623.5	589.2	488.0	379.5	287.4	216.9	173.5	153.6	146.4	141.0	141.0
25°	634.4	587.4	466.3	341.6	245.8	186.2	155.4	142.8	135.5	133.7	133.7
27.5°	648.8	589.2	444.6	305.4	207.8	164.5	142.8	135.5	131.9	130.1	130.1
30°	663.3	592.8	421.1	265.7	180.7	148.2	133.7	128.3	126.5	124.7	124.7
32.5°	679.5	596.4	394.0	233.1	160.8	135.5	126.5	122.9	122.9	121.1	119.3
35°	706.6	603.6	363.3	202.4	144.6	126.5	121.1	117.5	117.5	115.7	115.7
37.5°	744.6	612.7	332.5	180.7	133.7	119.3	113.9	113.9	112.1	112.1	110.2
40°	800.6	638.0	307.2	162.7	124.7	113.9	110.2	108.4	108.4	106.6	106.6
42.5°	863.9	668.7	283.7	150.0	119.3	108.4	104.8	104.8	104.8	103.0	101.2
45°	938.0	697.6	262.1	141.0	113.9	104.8	101.2	101.2	99.4	97.6	97.6
47.5°	1017.5	733.8	247.6	135.5	112.1	103.0	99.4	95.8	95.8	94.0	94.0
50°	1097.0	764.5	234.9	131.9	110.2	99.4	95.8	94.0	92.2	88.6	88.6
52.5°	1172.9	797.0	231.3	128.3	106.6	97.6	92.2	90.4	88.6	84.9	84.9
55°	1238.0	835.0	234.9	126.5	104.8	94.0	88.6	86.7	84.9	81.3	81.3
57.5°	1285.0	854.8	236.8	126.5	103.0	88.6	83.1	84.9	81.3	79.5	79.5
60°	1333.8	872.9	234.9	126.5	101.2	83.1	77.7	81.3	79.5	77.7	77.7
62.5°	1366.3	865.7	225.9	126.5	99.4	79.5	74.1	79.5	81.3	77.7	79.5
65°	1319.3	784.4	198.8	122.9	99.4	75.9	68.7	77.7	83.1	81.3	81.3
67.5°	1149.4	592.8	166.3	115.7	95.8	74.1	63.3	70.5	77.7	75.9	77.7
70°	815.1	357.8	137.4	103.0	86.7	70.5	59.6	59.6	61.4	63.3	65.1
72.5°	422.9	195.2	112.1	90.4	75.9	63.3	54.2	50.6	50.6	50.6	52.4
75°	186.2	128.3	92.2	74.1	63.3	54.2	48.8	43.4	43.4	41.6	41.6
77°	130.1	101.2	75.9	61.4	52.4	45.2	43.4	38.0	38.0	36.1	36.1
77.5°	117.5	94.0	74.1	57.8	50.6	43.4	41.6	36.1	36.1	36.1	36.1
80°	79.5	74.1	56.0	43.4	39.8	34.3	32.5	30.7	28.9	28.9	28.9
82.5°	47.0	54.2	39.8	30.7	28.9	25.3	23.5	23.5	23.5	21.7	19.9
85°	28.9	39.8	25.3	19.9	19.9	16.3	16.3	14.5	14.5	12.7	12.7
87.5°	12.7	25.3	14.5	9.0	7.2	5.4	7.2	5.4	5.4	3.6	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)