

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: P402597

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

Issue Date: 6/8/2020

Test Information

Test Method: LM-79-08
Report Number: P402597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-9)
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3234 lumens
Efficiency: N/A
Efficacy: 40.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B0 - U0 - G1

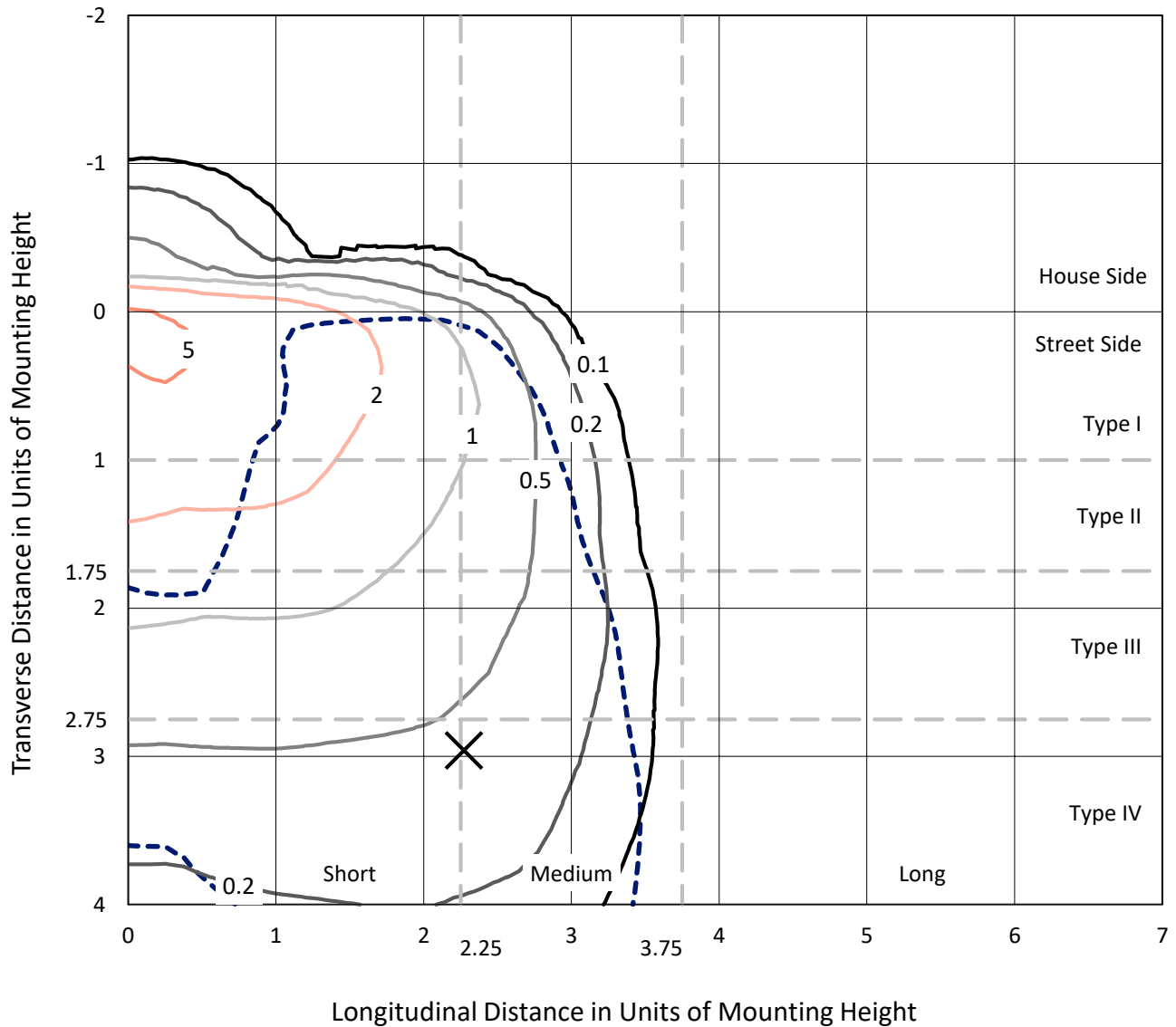
Input Watts (W): 79.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

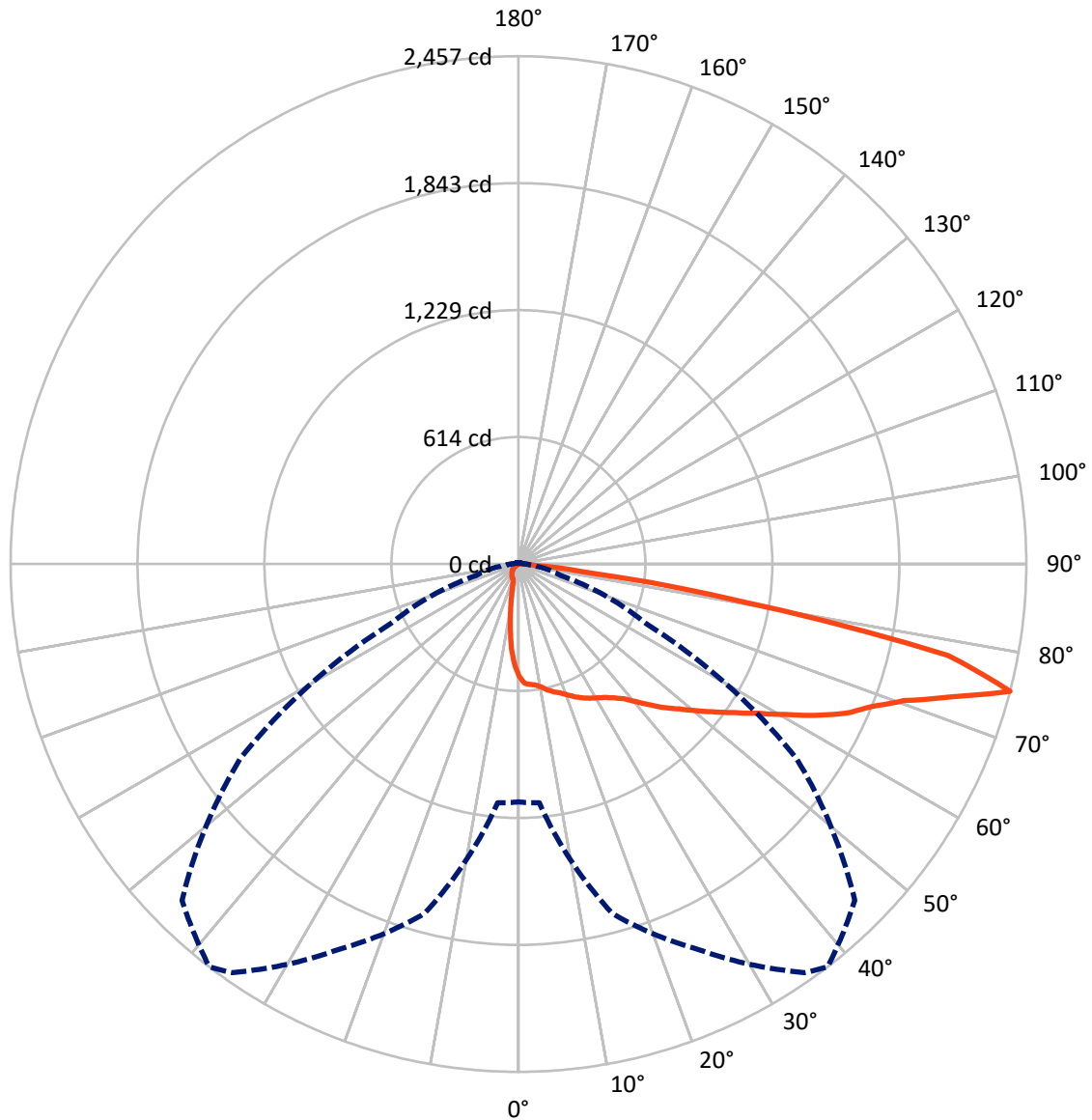
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 37.5-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical



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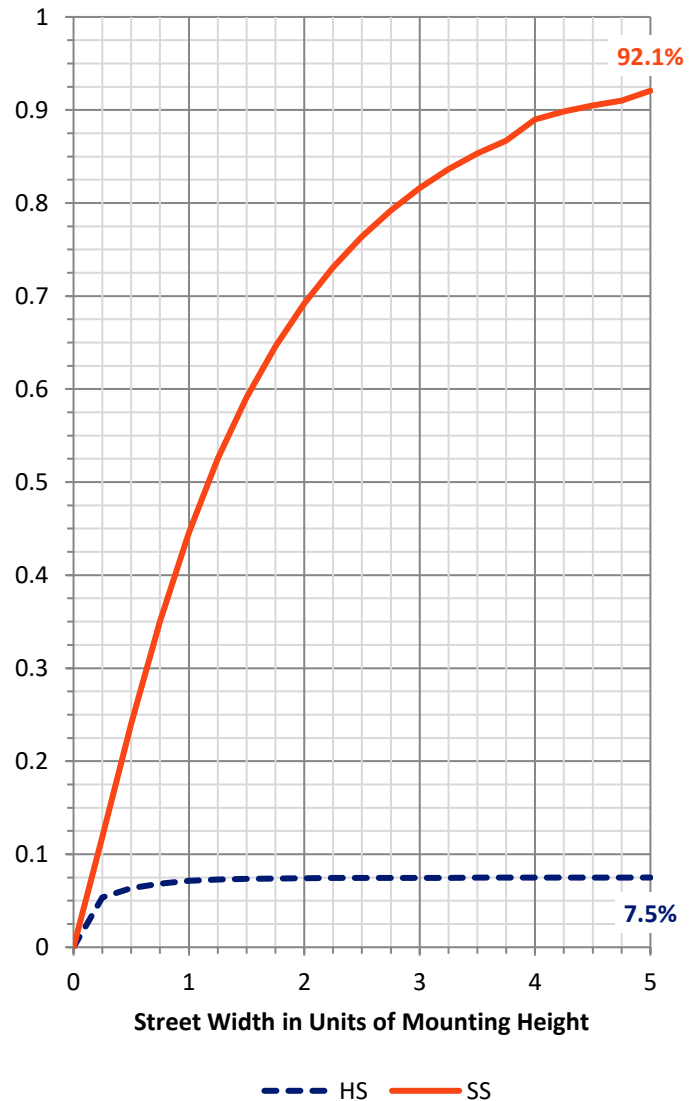
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	244.4	0.0	244.4
	% Fixture	7.6	0.0	7.6
Street Side	Lumens	2989.6	0.0	2989.6
	% Fixture	92.4	0.0	92.4
Total	Lumens	3234.0	0.0	3234.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.1	1.4
10°-20°	116.8	3.6
20°-30°	191.2	5.9
30°-40°	284.1	8.8
40°-50°	425.2	13.1
50°-60°	611.0	18.9
60°-70°	818.8	25.3
70°-80°	663.3	20.5
80°-90°	77.5	2.4
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°	3234.0	100.0
0°-180°	3234.0	100.0



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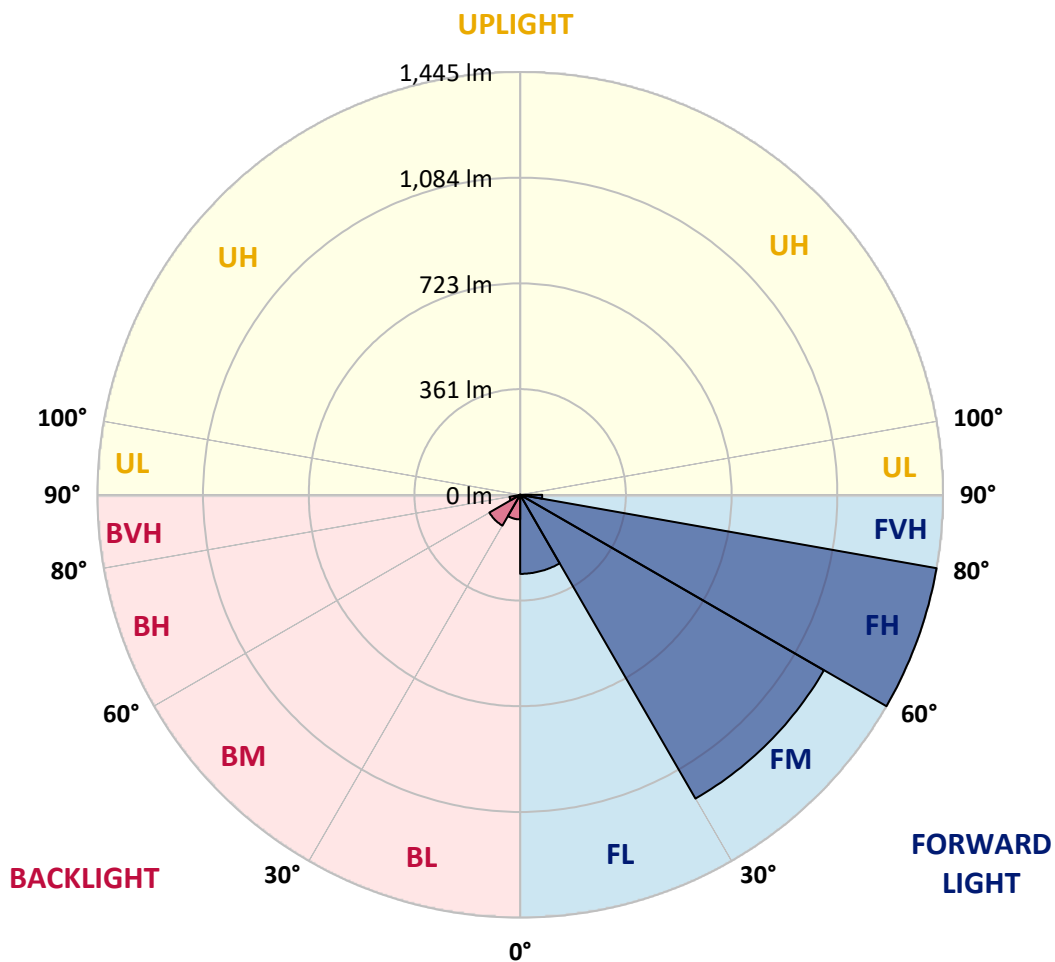
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	270.1	8.4			
FM (30°-60°)	1198.9	37.1			
FH (60°-80°)	1445.2	44.7			G1/1800
FVH (80°-90°)	75.4	2.3			G1/100
BL (0°-30°)	84.0	2.6	B0/110		
BM (30°-60°)	121.4	3.8	B0/220		
BH (60°-80°)	36.9	1.1	B0/110		G0/110
BVH (80°-90°)	2.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	45°	55°	65°	75°	85°
0°	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8
2.5°	585.4	583.6	583.6	580.0	578.2	578.2	570.9	569.1	561.9	554.7	545.6
5°	587.2	587.2	585.4	587.2	585.4	585.4	581.8	580.0	572.7	558.3	542.0
7.5°	598.0	596.2	594.4	594.4	590.8	590.8	581.8	578.2	570.9	561.9	538.4
10°	598.0	598.0	601.6	605.3	605.3	605.3	596.2	585.4	574.5	565.5	538.4
12.5°	596.2	596.2	601.6	614.3	623.3	625.1	619.7	605.3	587.2	570.9	545.6
15°	594.4	596.2	603.5	621.5	637.8	641.4	639.6	628.7	605.3	581.8	554.7
17.5°	598.0	601.6	610.7	636.0	654.0	655.8	657.7	650.4	625.1	596.2	569.1
20°	603.5	605.3	625.1	655.8	673.9	675.7	673.9	663.1	641.4	614.3	585.4
22.5°	612.5	616.1	641.4	675.7	695.6	697.4	692.0	673.9	650.4	628.7	603.5
25°	630.6	634.2	664.9	699.2	713.7	717.3	711.9	690.2	659.5	645.0	623.3
27.5°	652.2	657.7	690.2	722.7	731.7	735.3	729.9	704.6	672.1	666.7	648.6
30°	684.8	688.4	719.1	746.2	749.8	751.6	748.0	719.1	690.2	690.2	673.9
32.5°	724.5	729.9	749.8	769.7	767.9	769.7	767.9	737.2	711.9	726.3	704.6
35°	771.5	766.1	789.5	798.6	791.4	795.0	796.8	766.1	744.4	773.3	746.2
37.5°	807.6	807.6	820.3	829.3	823.9	827.5	832.9	804.0	789.5	840.1	809.4
40°	838.3	838.3	847.4	865.4	867.2	874.5	885.3	851.0	851.0	917.8	883.5
42.5°	861.8	865.4	872.7	896.1	919.6	932.3	943.1	908.8	925.1	1017.2	981.1
45°	885.3	888.9	892.5	926.9	973.8	991.9	1013.6	981.1	1010.0	1122.0	1082.2
47.5°	914.2	914.2	912.4	966.6	1024.4	1047.9	1085.9	1058.8	1111.1	1250.3	1188.8
50°	950.3	946.7	930.5	1008.2	1085.9	1114.8	1172.6	1145.5	1225.0	1384.0	1268.3
52.5°	991.9	982.9	957.6	1051.5	1152.7	1188.8	1262.9	1244.8	1344.2	1490.6	1313.5
55°	1044.3	1029.8	995.5	1103.9	1234.0	1270.1	1356.9	1367.7	1458.0	1552.0	1360.5
57.5°	1111.1	1084.0	1046.1	1169.0	1328.0	1362.3	1463.5	1486.9	1533.9	1611.6	1420.1
60°	1178.0	1149.1	1114.8	1257.5	1430.9	1477.9	1577.3	1586.3	1595.4	1694.7	1485.1
62.5°	1237.6	1221.4	1201.5	1356.9	1571.9	1613.4	1674.9	1662.2	1673.0	1792.3	1537.5
65°	1313.5	1297.2	1293.6	1470.7	1705.6	1741.7	1748.9	1754.3	1794.1	1888.0	1564.6
67.5°	1378.5	1373.1	1405.6	1606.2	1826.6	1841.1	1868.2	1898.9	1920.6	1931.4	1384.0
70°	1470.7	1461.7	1533.9	1741.7	1947.7	1978.4	2074.1	2104.9	1954.9	1582.7	847.4
72.5°	1479.7	1496.0	1692.9	1882.6	2128.3	2195.2	2314.4	2150.0	1519.5	849.2	263.8
75°	1150.9	1159.9	1748.9	2057.9	2413.8	2457.2	2301.8	1644.1	679.3	209.6	59.6
77.5°	641.4	675.7	1169.0	1909.7	2193.4	2124.7	1573.7	726.3	175.3	47.0	30.7
80°	469.8	486.0	563.7	1093.1	1241.2	1091.3	655.8	276.4	95.8	32.5	21.7
82.5°	139.1	150.0	290.9	352.3	439.0	348.7	196.9	211.4	61.4	23.5	18.1
85°	37.9	39.7	99.4	139.1	126.5	81.3	72.3	182.5	25.3	16.3	14.5
87.5°	18.1	18.1	30.7	61.4	52.4	43.4	59.6	106.6	5.4	5.4	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8	543.8
2.5°	540.2	536.6	522.1	514.9	507.7	495.0	487.8	482.4	480.6	477.0	478.8
5°	531.2	518.5	495.0	475.2	451.7	426.4	411.9	395.7	379.4	375.8	374.0
7.5°	524.0	505.9	469.8	431.8	392.1	348.7	309.0	283.7	258.4	254.8	252.9
10°	520.3	495.0	442.7	386.6	321.6	262.0	218.6	189.7	171.6	162.6	159.0
12.5°	520.3	489.6	421.0	341.5	258.4	193.3	150.0	121.1	108.4	103.0	101.2
15°	524.0	486.0	395.7	289.1	202.4	137.3	104.8	90.3	84.9	83.1	84.9
17.5°	533.0	486.0	372.2	243.9	153.6	101.2	83.1	81.3	79.5	79.5	79.5
20°	545.6	489.6	346.9	204.2	113.8	83.1	77.7	77.7	77.7	77.7	77.7
22.5°	560.1	491.4	318.0	166.2	92.1	75.9	74.1	74.1	74.1	74.1	74.1
25°	574.5	495.0	287.3	130.1	75.9	72.3	70.5	72.3	72.3	72.3	72.3
27.5°	592.6	498.7	256.6	103.0	70.5	68.7	68.7	68.7	68.7	68.7	68.7
30°	608.9	498.7	227.6	84.9	66.8	65.0	65.0	65.0	65.0	65.0	65.0
32.5°	628.7	496.9	196.9	70.5	63.2	61.4	59.6	61.4	61.4	61.4	59.6
35°	657.7	496.9	162.6	65.0	59.6	57.8	56.0	56.0	56.0	56.0	56.0
37.5°	695.6	504.1	128.3	59.6	54.2	52.4	52.4	52.4	50.6	50.6	50.6
40°	751.6	516.7	103.0	56.0	50.6	48.8	47.0	47.0	45.2	43.4	43.4
42.5°	818.5	531.2	84.9	52.4	47.0	45.2	43.4	41.6	39.7	37.9	37.9
45°	885.3	542.0	66.8	48.8	43.4	41.6	39.7	37.9	34.3	32.5	30.7
47.5°	955.8	542.0	54.2	45.2	41.6	37.9	36.1	32.5	28.9	25.3	25.3
50°	997.3	522.1	48.8	41.6	37.9	34.3	32.5	27.1	23.5	19.9	19.9
52.5°	1020.8	495.0	45.2	37.9	36.1	32.5	27.1	23.5	18.1	14.5	14.5
55°	1040.7	482.4	41.6	36.1	32.5	28.9	23.5	18.1	12.6	10.8	10.8
57.5°	1066.0	462.5	37.9	32.5	28.9	25.3	19.9	14.5	9.0	7.2	7.2
60°	1087.7	435.4	34.3	30.7	27.1	21.7	16.3	10.8	5.4	3.6	3.6
62.5°	1098.5	393.9	30.7	27.1	23.5	18.1	12.6	7.2	3.6	1.8	1.8
65°	1067.8	330.6	28.9	23.5	19.9	14.5	9.0	3.6	1.8	0.0	0.0
67.5°	872.7	213.2	23.5	19.9	16.3	10.8	7.2	3.6	1.8	0.0	0.0
70°	448.1	90.3	19.9	16.3	14.5	9.0	5.4	1.8	0.0	0.0	0.0
72.5°	117.4	32.5	16.3	14.5	12.6	9.0	3.6	1.8	0.0	0.0	0.0
75°	36.1	21.7	12.6	10.8	10.8	7.2	3.6	1.8	0.0	0.0	0.0
77.5°	25.3	16.3	10.8	9.0	9.0	7.2	3.6	1.8	0.0	0.0	0.0
80°	19.9	14.5	9.0	7.2	9.0	9.0	3.6	1.8	0.0	0.0	0.0
82.5°	16.3	12.6	7.2	7.2	9.0	9.0	5.4	1.8	0.0	0.0	0.0
85°	12.6	9.0	7.2	7.2	9.0	7.2	3.6	1.8	0.0	0.0	0.0
87.5°	3.6	3.6	1.8	1.8	1.8	3.6	3.6	1.8	0.0	0.0	0.0
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)