

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: P402593

Luminaire Tested: **GAN-AF-04-LED-U-SL2-AMB-HSS**

Issue Date: 6/8/2020

Test Information

Test Method: LM-79-08
Report Number: P402593
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-5)
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-SL2-AMB-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3283 lumens
Efficiency: N/A
Efficacy: 41.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

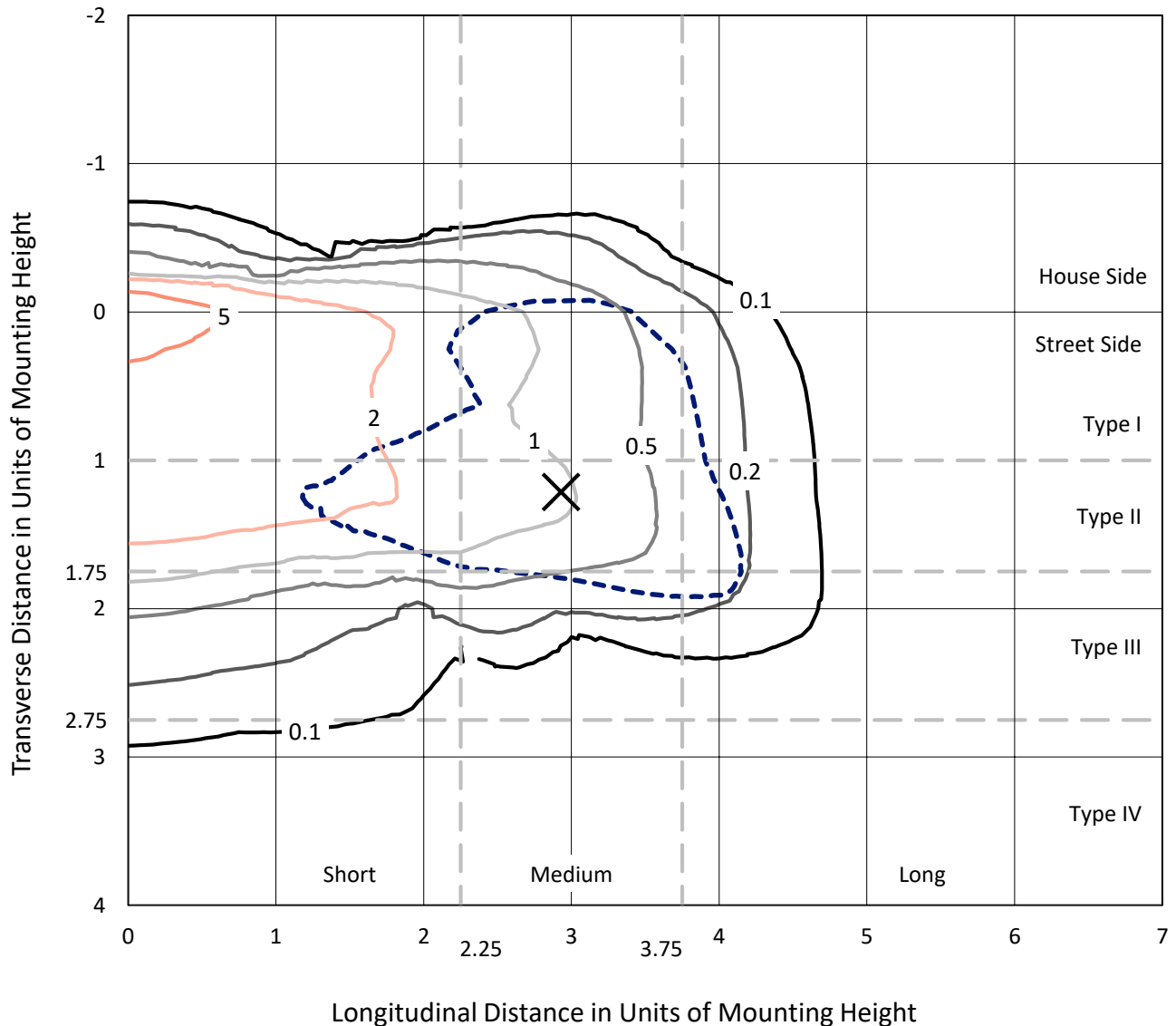
Input Watts (W): 79.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

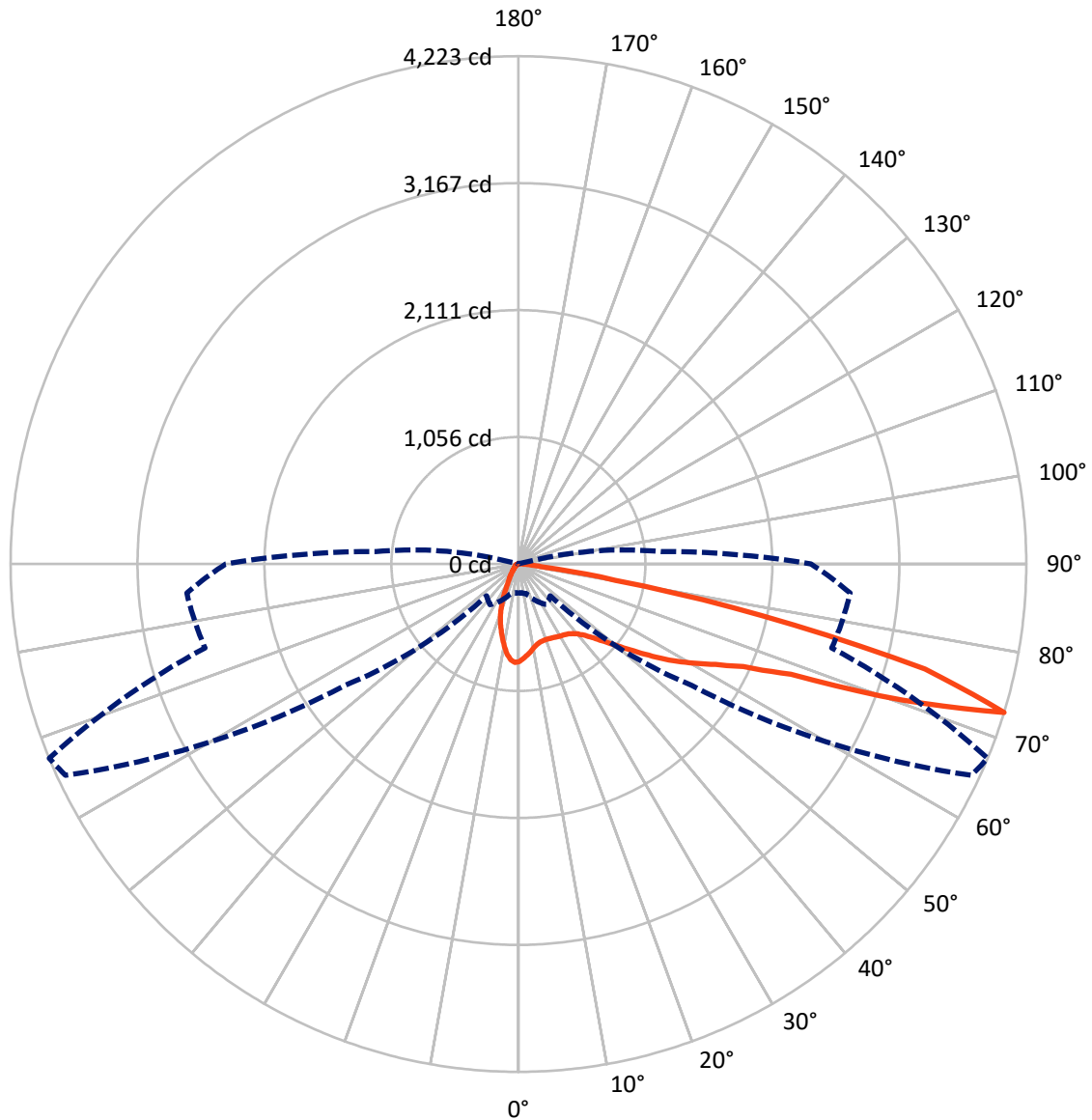
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.1 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical



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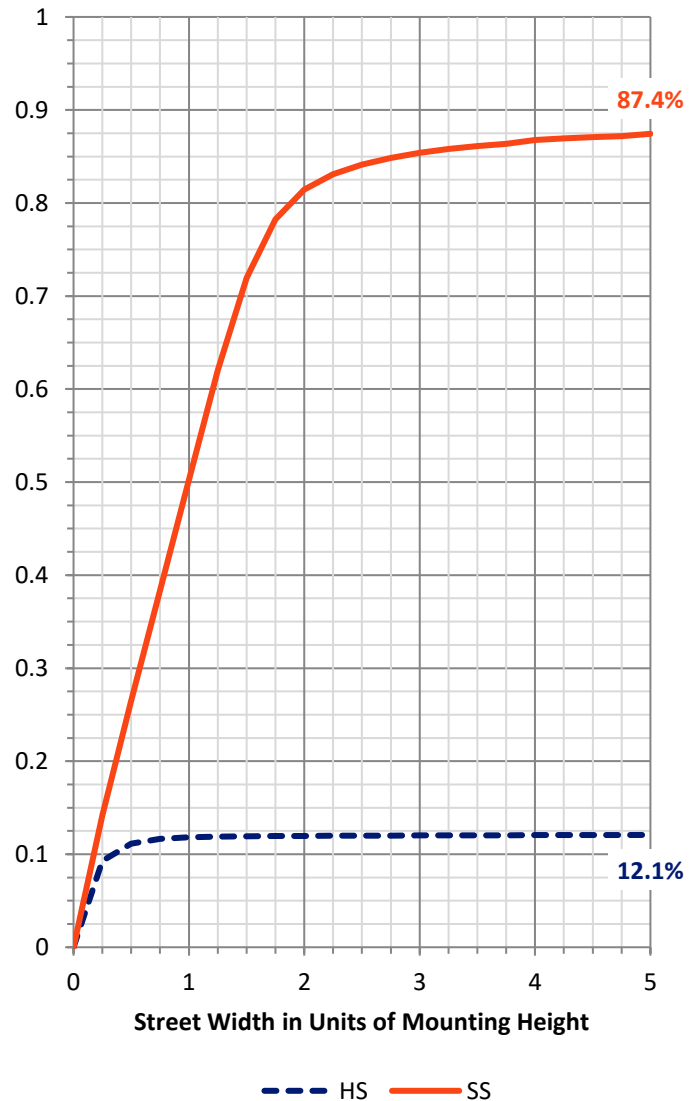
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	400.4	0.0	400.4
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	2882.5	0.0	2882.5
	% Fixture	87.8	0.0	87.8
Total	Lumens	3283.0	0.0	3283.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.0	2.0
10°-20°	141.2	4.3
20°-30°	199.4	6.1
30°-40°	285.6	8.7
40°-50°	430.9	13.1
50°-60°	690.8	21.0
60°-70°	816.6	24.9
70°-80°	596.5	18.2
80°-90°	55.1	1.7
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°	3283.0	100.0
0°-180°	3283.0	100.0



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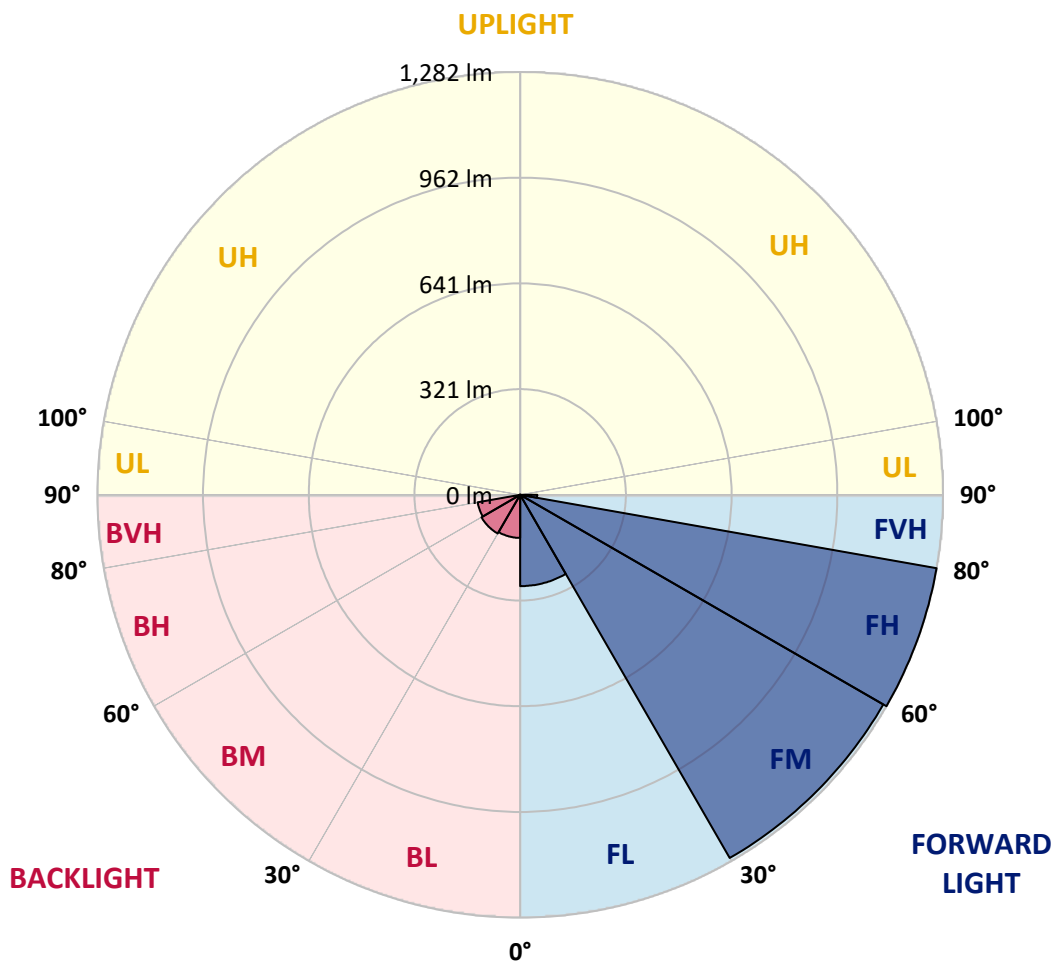
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	276.9	8.4			
FM	(30°-60°)	1271.6	38.7			
FH	(60°-80°)	1282.3	39.1			G1/1800
FVH	(80°-90°)	51.7	1.6			G1/100
BL	(0°-30°)	130.6	4.0	B1/500		
BM	(30°-60°)	135.6	4.1	B0/220		
BH	(60°-80°)	130.8	4.0	B1/500		G1/500
BVH	(80°-90°)	3.4	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67.5°	75°	85°
0°	811.3	811.3	811.3	811.3	811.3	811.3	811.3	811.3	811.3	811.3	811.3
2.5°	760.7	764.4	764.4	769.8	771.6	773.4	784.2	787.8	786.0	796.9	804.1
5°	710.1	710.1	713.8	722.8	730.0	735.4	748.1	758.9	760.7	773.4	793.3
7.5°	668.6	672.2	672.2	677.6	688.5	697.5	713.8	731.8	735.4	751.7	775.2
10°	636.1	634.2	639.7	645.1	654.1	663.2	681.2	701.1	708.3	726.4	753.5
12.5°	605.3	607.1	609.0	618.0	628.8	637.9	655.9	679.4	686.7	710.1	742.7
15°	587.3	587.3	589.1	594.5	605.3	618.0	639.7	665.0	674.0	701.1	739.1
17.5°	581.8	581.8	580.0	581.8	590.9	603.5	628.8	659.5	668.6	697.5	744.5
20°	583.7	583.7	580.0	578.2	583.7	596.3	625.2	657.7	668.6	702.9	758.9
22.5°	594.5	592.7	589.1	583.7	583.7	596.3	627.0	661.4	672.2	710.1	771.6
25°	621.6	614.4	610.8	599.9	592.7	598.1	628.8	666.8	677.6	715.6	789.6
27.5°	646.9	645.1	645.1	634.2	610.8	605.3	636.1	675.8	684.8	722.8	813.1
30°	690.3	686.7	686.7	674.0	645.1	619.8	643.3	683.0	693.9	728.2	836.6
32.5°	744.5	746.3	742.7	726.4	690.3	646.9	655.9	692.1	701.1	731.8	860.1
35°	804.1	805.9	814.9	796.9	749.9	688.5	675.8	708.3	713.8	739.1	878.2
37.5°	852.9	852.9	876.4	880.0	822.2	739.1	708.3	735.4	733.6	748.1	896.3
40°	907.1	907.1	934.2	955.9	914.3	807.7	749.9	768.0	764.4	768.0	921.6
42.5°	964.9	968.5	997.5	1035.4	1013.7	896.3	809.5	818.6	811.3	800.5	948.7
45°	1020.9	1030.0	1069.7	1120.3	1118.5	1001.1	887.2	889.0	876.4	854.7	1004.7
47.5°	1086.0	1093.2	1149.2	1212.5	1228.7	1120.3	986.6	979.4	963.1	928.8	1080.6
50°	1196.2	1199.8	1239.6	1313.7	1344.4	1252.2	1098.6	1086.0	1067.9	1024.6	1183.6
52.5°	1328.1	1326.3	1344.4	1422.1	1505.2	1405.8	1245.0	1226.9	1198.0	1142.0	1310.1
55°	1386.0	1391.4	1418.5	1512.4	1673.3	1629.9	1409.4	1384.1	1353.4	1281.1	1440.2
57.5°	1284.8	1284.8	1339.0	1487.1	1767.2	1926.2	1593.8	1554.0	1516.1	1423.9	1588.3
60°	1028.2	1026.4	1091.4	1270.3	1696.8	2184.6	1850.3	1731.1	1673.3	1550.4	1736.5
62.5°	721.0	706.5	735.4	885.4	1389.6	2188.3	2329.2	1915.4	1837.7	1680.5	1893.7
65°	516.8	507.8	513.2	554.7	796.9	1978.6	2858.6	2195.5	2056.3	1817.8	2083.4
67.5°	422.8	412.0	410.2	460.8	459.0	1310.1	3017.7	2748.4	2444.8	2018.4	2298.5
70°	337.9	332.5	330.7	403.0	424.6	426.4	2813.5	3930.2	3391.7	2316.5	2585.8
72.5°	240.3	240.3	254.8	334.3	412.0	374.0	1760.0	4156.1	4222.9	2697.8	2768.3
75°	144.6	142.8	178.9	265.6	397.5	361.4	543.9	3429.6	3491.1	2526.2	2141.3
77.5°	68.7	68.7	99.4	178.9	352.4	339.7	310.8	2050.9	2065.4	1534.1	1086.0
80°	27.1	27.1	43.4	110.2	267.4	336.1	289.1	845.7	814.9	422.8	150.0
82.5°	10.8	10.8	18.1	61.4	166.2	276.5	256.6	280.1	209.6	48.8	39.8
85°	1.8	3.6	7.2	36.1	94.0	146.4	207.8	173.5	110.2	28.9	28.9
87.5°	0.0	1.8	3.6	10.8	27.1	61.4	104.8	79.5	50.6	9.0	12.6
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°	811.3	811.3	811.3	811.3	811.3	811.3	811.3	811.3	811.3	811.3	811.3
2.5°	805.9	809.5	816.8	820.4	822.2	814.9	814.9	807.7	805.9	805.9	805.9
5°	796.9	804.1	809.5	796.9	777.0	751.7	722.8	704.7	686.7	690.3	683.0
7.5°	786.0	795.1	787.8	746.3	695.7	648.7	598.1	569.2	534.9	531.3	522.2
10°	769.8	778.8	751.7	679.4	601.7	533.1	459.0	413.8	377.7	348.7	341.5
12.5°	766.2	771.6	708.3	609.0	507.8	410.2	314.4	229.5	178.9	153.6	153.6
15°	768.0	768.0	668.6	538.5	406.6	271.0	151.8	110.2	92.2	90.3	88.5
17.5°	777.0	766.2	628.8	469.8	298.2	140.9	90.3	83.1	79.5	79.5	79.5
20°	793.3	766.2	594.5	397.5	187.9	88.5	77.7	74.1	72.3	70.5	70.5
22.5°	809.5	758.9	551.1	314.4	108.4	74.1	68.7	66.9	63.2	61.4	61.4
25°	827.6	751.7	509.6	225.9	75.9	65.1	59.6	56.0	52.4	50.6	50.6
27.5°	843.9	744.5	460.8	142.8	66.9	57.8	52.4	47.0	41.6	39.8	39.8
30°	854.7	731.8	413.8	90.3	59.6	52.4	45.2	37.9	32.5	30.7	30.7
32.5°	856.5	715.6	356.0	66.9	54.2	45.2	36.1	30.7	27.1	25.3	25.3
35°	851.1	695.7	292.7	59.6	48.8	39.8	30.7	25.3	21.7	21.7	21.7
37.5°	843.9	675.8	227.7	54.2	43.4	34.3	25.3	21.7	19.9	18.1	18.1
40°	842.1	655.9	151.8	50.6	39.8	28.9	21.7	18.1	16.3	14.5	14.5
42.5°	847.5	641.5	106.6	47.0	34.3	25.3	19.9	16.3	12.6	12.6	10.8
45°	874.6	637.9	77.7	43.4	30.7	21.7	16.3	12.6	10.8	9.0	9.0
47.5°	919.8	645.1	63.2	39.8	27.1	18.1	14.5	10.8	9.0	7.2	7.2
50°	984.8	672.2	57.8	36.1	21.7	16.3	10.8	9.0	7.2	7.2	7.2
52.5°	1086.0	715.6	54.2	32.5	18.1	12.6	9.0	7.2	5.4	5.4	5.4
55°	1194.4	766.2	52.4	28.9	16.3	10.8	7.2	5.4	5.4	3.6	3.6
57.5°	1319.1	833.0	48.8	25.3	14.5	10.8	7.2	5.4	3.6	3.6	3.6
60°	1476.3	923.4	43.4	21.7	12.6	9.0	5.4	3.6	3.6	3.6	3.6
62.5°	1638.9	1017.3	37.9	18.1	10.8	7.2	5.4	3.6	3.6	3.6	3.6
65°	1837.7	1125.7	32.5	14.5	9.0	7.2	5.4	3.6	3.6	1.8	1.8
67.5°	2078.0	1236.0	25.3	12.6	9.0	5.4	5.4	3.6	3.6	1.8	1.8
70°	2385.2	1376.9	21.7	10.8	7.2	5.4	5.4	3.6	3.6	1.8	1.8
72.5°	2432.2	1189.0	18.1	10.8	7.2	5.4	5.4	3.6	3.6	1.8	1.8
75°	1662.4	567.4	16.3	9.0	7.2	7.2	5.4	3.6	3.6	1.8	1.8
77.5°	724.6	133.7	14.5	9.0	7.2	7.2	7.2	5.4	3.6	1.8	1.8
80°	84.9	25.3	12.6	9.0	7.2	9.0	7.2	5.4	3.6	1.8	1.8
82.5°	34.3	16.3	12.6	10.8	9.0	7.2	7.2	5.4	3.6	1.8	1.8
85°	25.3	12.6	12.6	12.6	9.0	5.4	5.4	3.6	3.6	1.8	1.8
87.5°	12.6	5.4	3.6	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8
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)