

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: McGRAW-EDISON

Report Number: P299937

Luminaire Tested: **GLNA-AF-01-LED-E1-SL3-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-01-LED-E1-SL3-8030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Medium OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3339.2 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 34
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: 25 FT



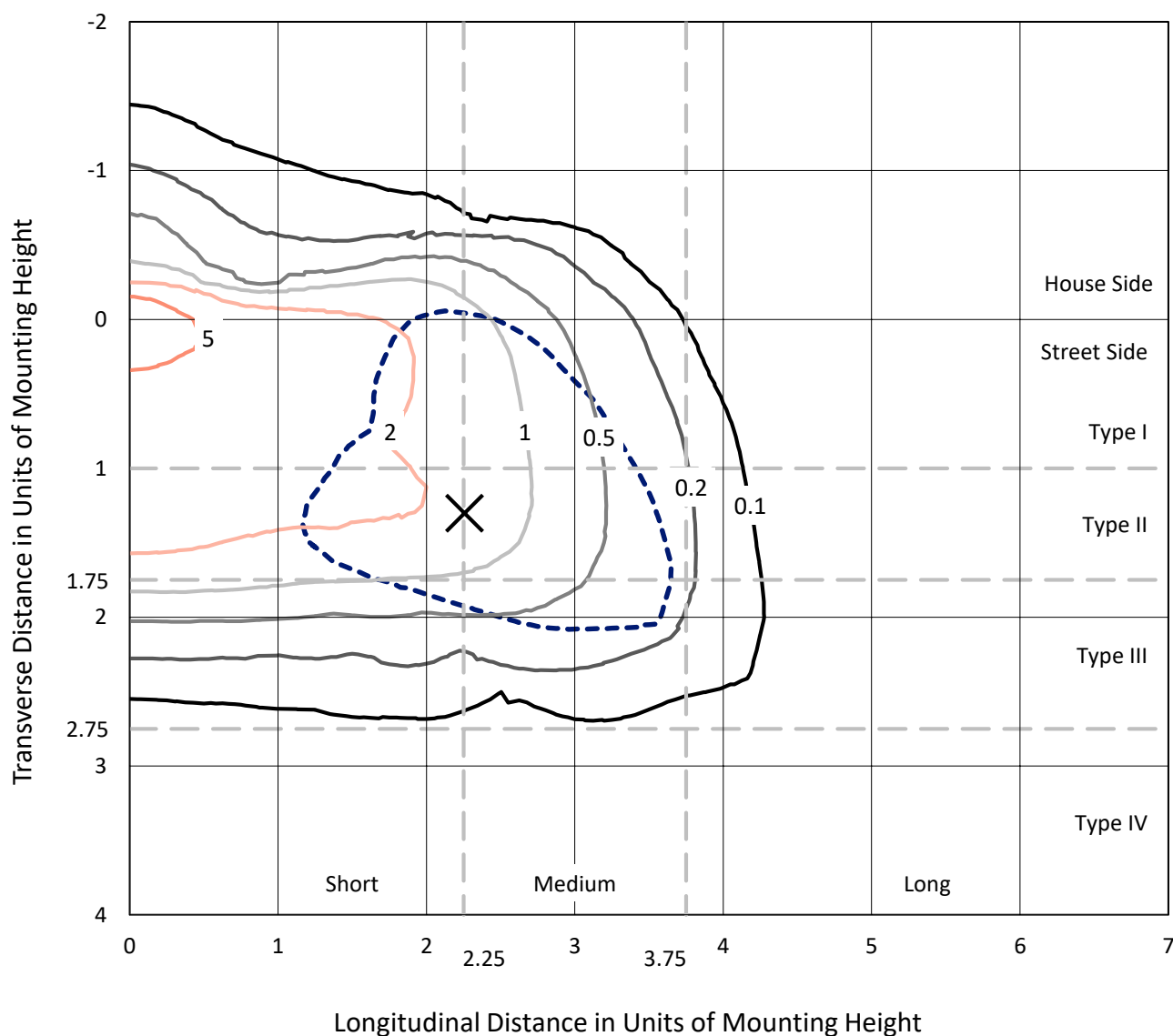
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

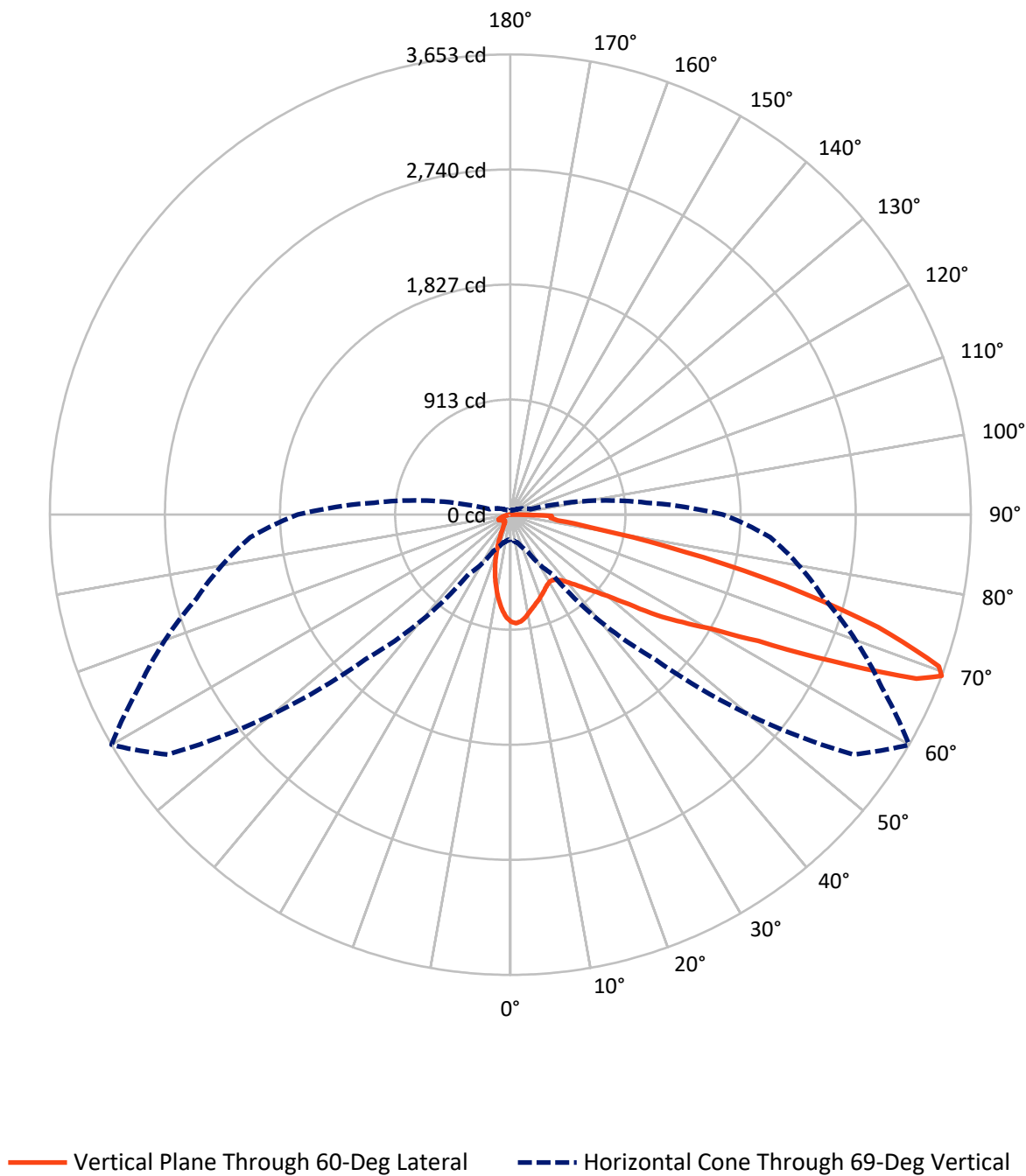


Based on 10 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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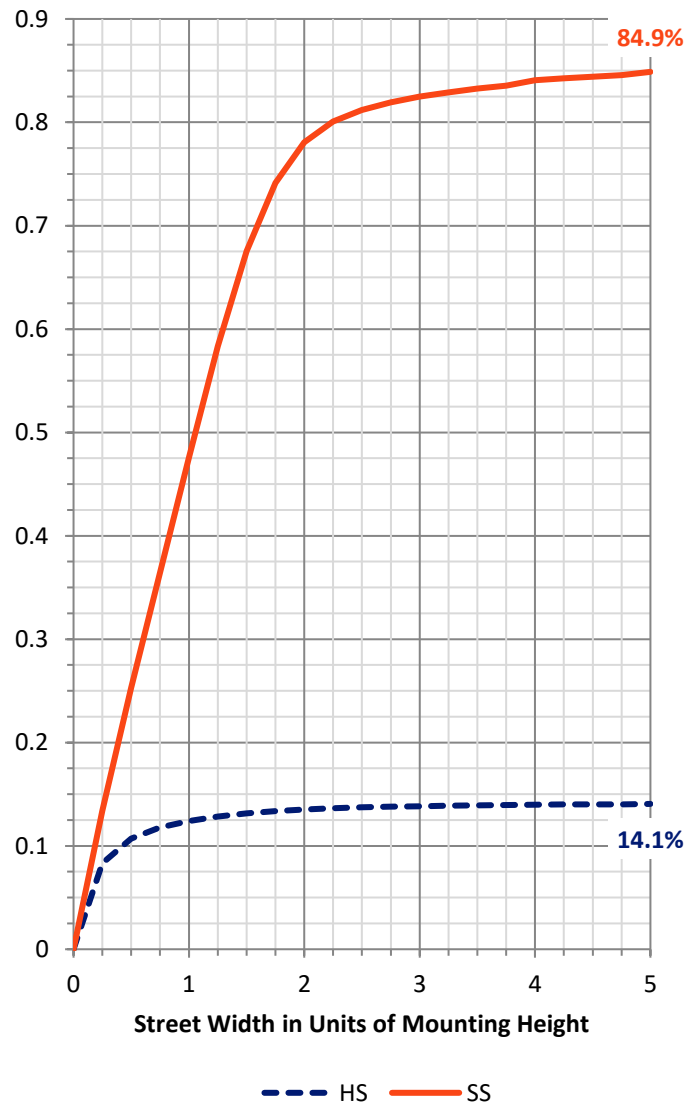
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	475.1	0.0	475.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	2864.1	0.0	2864.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	3339.2	0.0	3339.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.9	2.2
10°-20°	153.3	4.6
20°-30°	195.3	5.8
30°-40°	268.5	8.0
40°-50°	435.7	13.0
50°-60°	698.7	20.9
60°-70°	929.9	27.8
70°-80°	502.1	15.0
80°-90°	83.8	2.5
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°	3339.2	100.0
0°-180°	3339.2	100.0

Coefficient of Utilization



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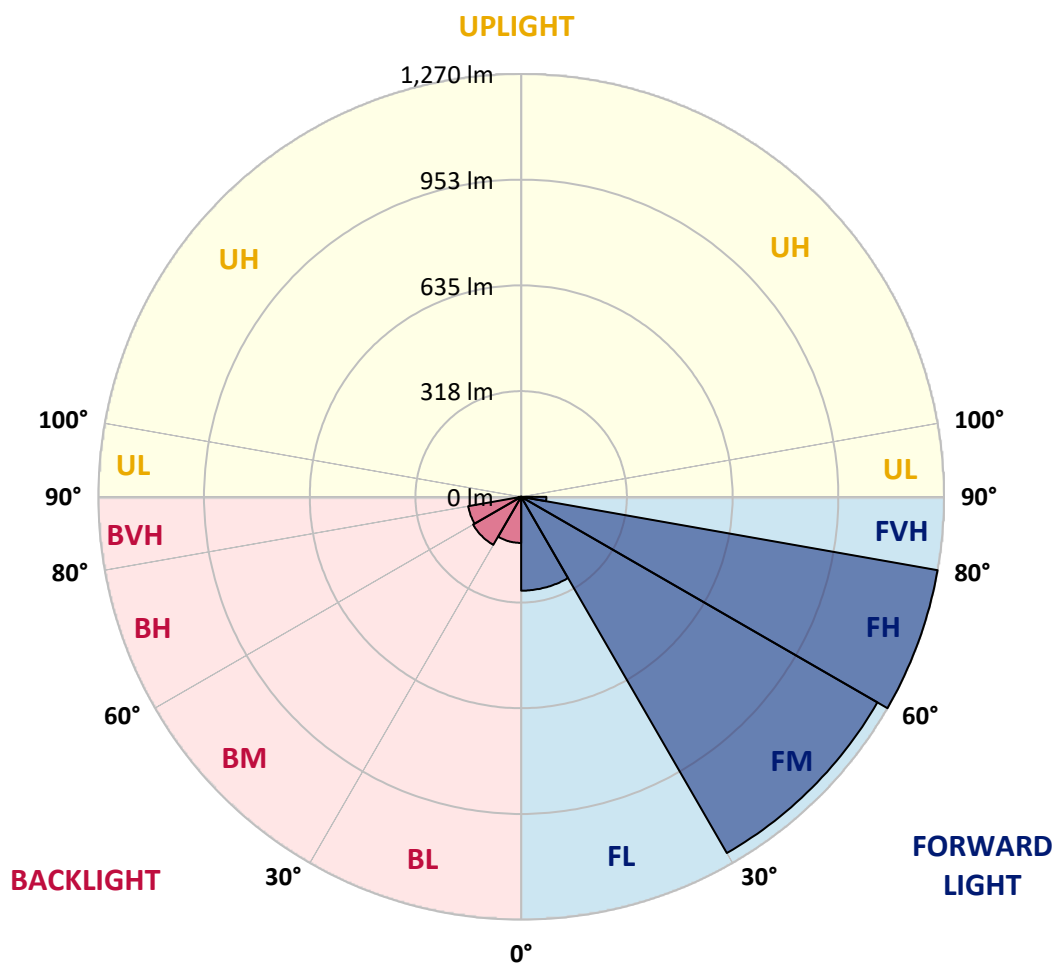
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	281.9	8.4			
FM	(30°-60°)	1236.0	37.0			
FH	(60°-80°)	1270.5	38.0			G1/1800
FVH	(80°-90°)	75.7	2.3			G1/100
BL	(0°-30°)	138.6	4.2	B1/500		
BM	(30°-60°)	166.9	5.0	B0/220		
BH	(60°-80°)	161.5	4.8	B1/500		G1/500
BVH	(80°-90°)	8.1	0.2			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°	60°	65°	75°	85°
0°	850.9	850.9	850.9	850.9	850.9	850.9	850.9	850.9	850.9	850.9	850.9
2.5°	868.3	870.2	869.4	868.9	870.4	868.1	863.5	862.0	859.7	854.4	845.4
5°	835.7	841.5	841.2	845.6	852.8	854.7	852.6	853.0	848.8	842.2	827.2
7.5°	779.4	781.8	783.1	792.6	805.9	816.5	825.5	828.5	826.5	820.9	801.5
10°	721.3	723.3	726.3	737.5	754.3	768.9	786.0	795.9	800.1	799.1	777.5
12.5°	671.5	673.4	677.5	690.1	710.1	728.1	753.0	765.2	775.2	781.2	758.0
15°	626.8	631.0	634.9	649.4	671.8	695.5	723.6	739.1	754.6	768.0	740.7
17.5°	592.0	596.2	598.4	611.7	635.5	664.6	697.5	715.7	735.1	757.0	723.6
20°	571.8	573.8	572.8	580.2	601.7	632.5	671.5	692.6	716.0	746.7	706.5
22.5°	566.2	566.3	562.8	562.0	575.9	601.8	643.8	669.4	698.1	739.9	691.8
25°	579.9	579.4	569.7	561.8	563.3	578.4	617.0	646.8	683.1	738.4	680.5
27.5°	610.4	611.8	597.5	582.6	567.9	567.5	596.7	628.1	670.9	745.1	675.7
30°	653.1	655.5	640.2	621.3	593.8	571.0	588.8	617.0	663.3	758.8	674.9
32.5°	699.9	702.5	690.9	671.0	634.9	592.9	594.2	618.0	663.0	778.0	680.4
35°	749.7	752.6	746.7	729.9	689.7	633.4	615.2	633.6	673.4	807.3	695.1
37.5°	805.4	809.9	811.5	795.5	752.6	686.8	649.6	663.3	697.2	848.1	722.0
40°	885.6	891.8	891.4	868.5	824.7	758.9	702.6	706.2	734.1	902.7	765.1
42.5°	1039.1	1040.4	1000.2	950.4	904.1	834.7	765.2	762.3	785.1	971.7	828.5
45°	1234.5	1229.1	1139.8	1043.5	987.0	921.8	846.7	832.5	849.7	1055.9	907.8
47.5°	1396.6	1384.3	1271.4	1138.5	1074.8	1016.5	942.3	917.5	927.0	1151.4	1010.4
50°	1452.9	1443.7	1350.1	1217.5	1157.8	1132.0	1060.1	1024.9	1027.5	1265.3	1130.6
52.5°	1440.8	1439.5	1377.0	1269.6	1235.6	1253.3	1226.9	1179.3	1154.1	1391.7	1260.3
55°	1412.2	1414.9	1392.4	1330.3	1324.5	1370.4	1444.8	1409.6	1331.4	1519.3	1394.3
57.5°	1313.0	1320.1	1369.8	1406.6	1467.5	1535.9	1620.3	1610.3	1522.2	1657.2	1553.7
60°	1057.8	1074.3	1207.5	1391.7	1614.8	1828.7	1866.4	1843.2	1719.0	1828.4	1764.2
62.5°	741.2	758.3	916.7	1204.9	1590.6	2159.4	2306.5	2206.3	2001.6	2080.5	2036.6
65°	396.8	405.0	526.0	836.0	1342.8	2227.6	2949.6	2797.2	2449.1	2391.3	2269.7
67.5°	218.9	223.4	269.7	422.1	860.1	1961.6	3359.3	3474.5	3008.3	2598.3	2227.3
69°	197.9	202.1	232.4	319.7	575.5	1621.9	3319.3	3653.0	3253.5	2577.8	2070.5
70°	193.6	197.4	224.7	294.7	465.8	1336.9	3185.2	3607.4	3311.9	2504.4	1933.7
72.5°	174.2	178.4	204.9	264.7	398.1	666.5	2523.1	3050.1	3006.8	2171.5	1466.7
75°	162.4	166.3	211.1	259.2	381.2	421.8	1663.4	2247.9	2210.3	1519.0	790.9
77.5°	69.5	69.2	97.9	219.4	386.8	408.4	893.8	1404.3	1281.2	649.2	227.1
80°	46.5	45.6	46.5	64.5	354.7	410.7	468.3	712.8	538.4	165.5	111.9
82.5°	40.0	39.4	40.8	39.4	124.7	468.7	398.1	379.1	256.0	94.0	55.5
85°	26.9	25.8	35.2	35.3	58.9	416.5	448.4	320.2	207.1	55.8	27.4
87.5°	12.9	12.6	20.5	25.0	34.5	169.2	503.1	328.1	208.9	28.6	13.1
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°	850.9	850.9	850.9	850.9	850.9	850.9	850.9	850.9	850.9	850.9	850.9
2.5°	842.6	836.0	829.6	821.8	813.8	804.7	800.2	795.7	794.6	793.3	788.8
5°	819.4	810.1	793.9	776.2	757.5	739.3	725.4	716.7	710.1	706.7	700.7
7.5°	789.4	775.7	747.5	716.8	685.4	656.7	631.8	616.2	601.3	594.4	586.5
10°	760.9	740.4	696.5	651.3	606.2	562.8	522.0	493.1	467.5	453.1	442.9
12.5°	736.3	708.3	647.5	586.3	524.4	462.6	401.5	353.4	313.3	292.1	281.3
15°	712.5	678.6	600.9	523.3	443.7	359.7	279.4	224.9	191.6	178.4	173.9
17.5°	690.9	647.5	554.1	459.7	360.5	258.9	187.8	157.8	145.0	140.7	139.2
20°	667.5	616.0	505.5	393.3	273.7	181.0	146.6	133.4	128.2	126.9	126.3
22.5°	644.9	585.0	459.1	322.1	196.6	139.7	126.0	120.5	119.7	120.8	120.8
25°	625.7	557.3	408.9	247.8	144.4	117.6	112.8	111.5	114.5	118.7	119.5
27.5°	611.3	534.6	355.5	182.9	115.0	102.3	102.1	104.2	111.8	119.8	121.5
30°	601.5	512.9	298.4	131.9	96.5	90.0	92.6	97.1	108.2	119.7	122.8
32.5°	596.5	497.0	238.9	102.1	82.6	79.0	83.4	88.9	99.8	110.5	114.5
35°	600.4	485.2	182.8	85.2	72.9	70.2	74.7	80.0	86.5	91.0	94.0
37.5°	614.9	480.5	137.9	76.3	66.3	63.7	67.3	70.3	72.9	74.2	75.7
40°	646.2	485.5	110.5	71.8	62.6	59.4	60.8	61.9	63.6	64.8	65.5
42.5°	692.3	500.5	99.0	70.0	60.6	56.0	55.6	56.1	58.2	60.6	61.1
45°	756.8	527.0	98.2	71.1	59.7	53.2	51.8	52.4	55.6	59.4	60.0
47.5°	839.3	567.3	104.7	74.5	60.5	51.8	49.4	50.2	54.2	59.2	60.0
50°	939.1	623.6	115.5	79.5	64.0	52.1	48.6	49.0	53.2	58.7	59.5
52.5°	1057.0	703.4	127.3	84.4	67.7	54.2	49.2	48.1	51.9	56.8	57.7
55°	1188.2	805.9	139.4	88.7	69.7	56.8	50.5	46.8	49.5	53.6	54.4
57.5°	1349.1	949.1	160.3	92.9	71.0	58.6	51.8	45.5	46.5	49.4	50.0
60°	1567.1	1151.7	197.3	99.8	73.9	59.2	51.6	44.4	43.4	45.0	45.3
62.5°	1828.2	1371.7	228.1	108.6	78.7	59.7	50.6	43.6	40.8	40.8	41.1
65°	1983.2	1430.6	211.0	115.8	82.7	59.2	49.5	42.7	38.9	37.1	37.3
67.5°	1851.8	1258.2	180.8	117.3	82.6	56.9	47.7	41.3	36.9	34.2	34.0
69°	1687.1	1085.6	167.3	113.4	78.7	54.0	45.5	39.7	35.5	32.6	32.4
70°	1554.3	980.2	158.4	109.2	74.5	51.9	43.7	38.2	34.4	31.6	31.3
72.5°	1130.1	642.3	135.3	93.9	61.5	43.6	37.7	33.6	30.6	29.0	28.7
75°	564.7	306.3	109.8	76.1	47.1	34.8	31.0	28.1	26.6	26.3	26.1
77.5°	185.5	140.3	78.6	56.8	35.0	27.3	25.0	22.9	22.6	23.6	23.2
80°	101.9	81.6	49.8	37.6	23.9	20.0	19.7	18.5	19.0	20.6	20.3
82.5°	51.9	42.4	30.8	22.6	16.1	14.4	15.6	15.0	15.6	17.1	16.9
85°	25.6	23.2	19.5	13.7	10.6	9.2	11.1	11.6	11.9	13.1	13.1
87.5°	14.8	13.7	10.3	6.5	5.3	4.8	6.5	6.3	7.4	8.1	7.9
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)