

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: P527745

Luminaire Tested: **GALN-SA2D-735-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527745
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-735-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8548 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

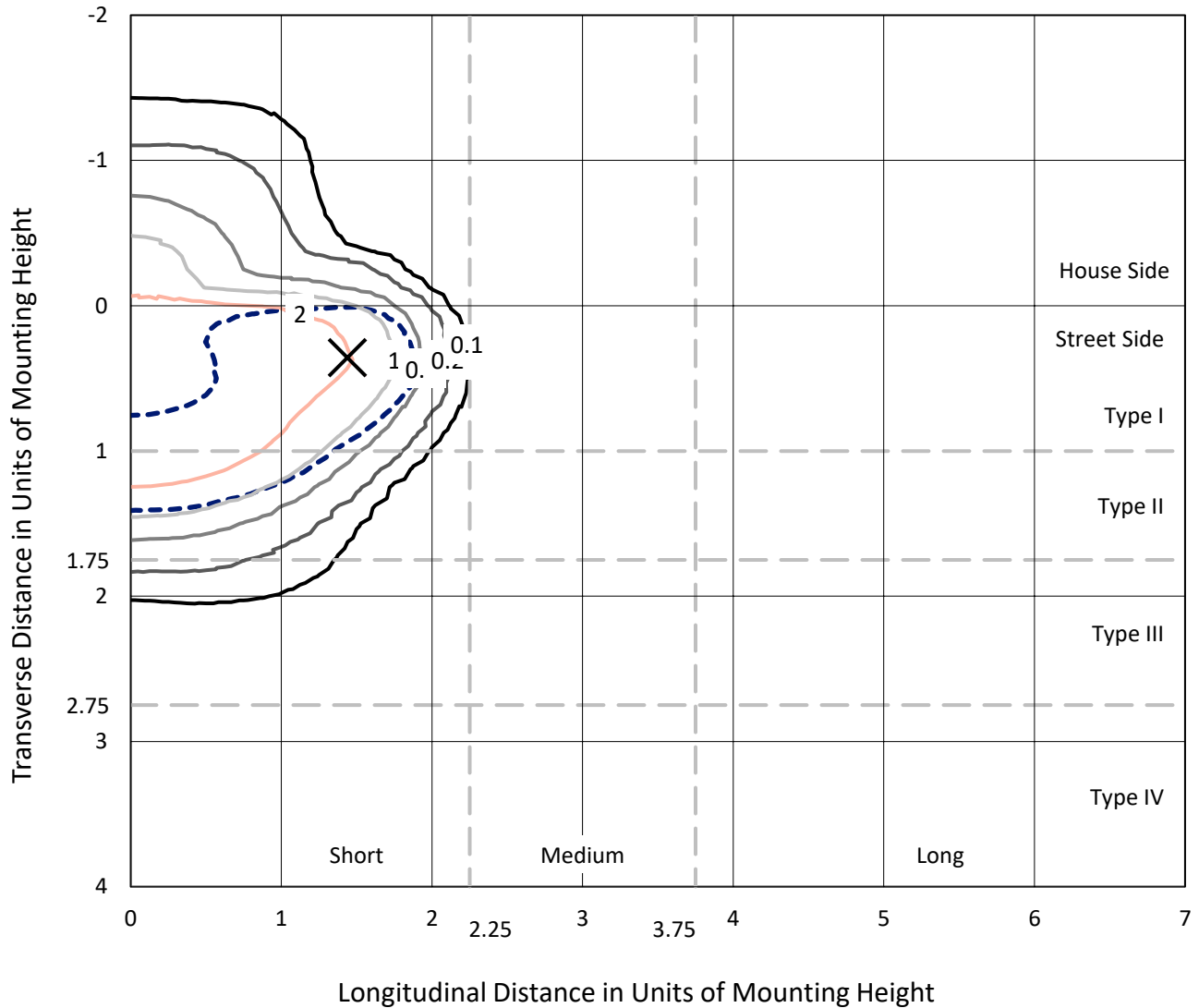
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

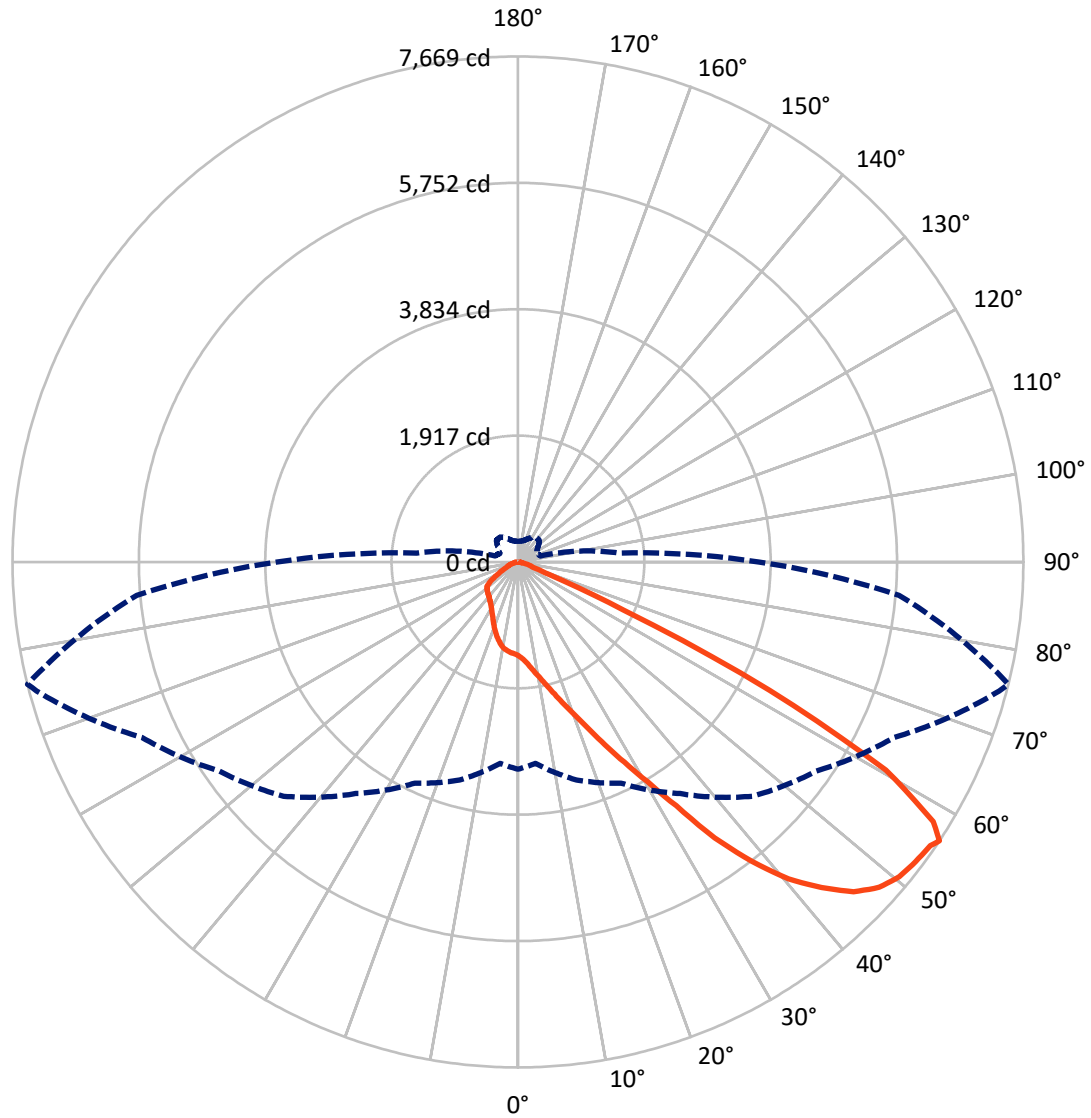
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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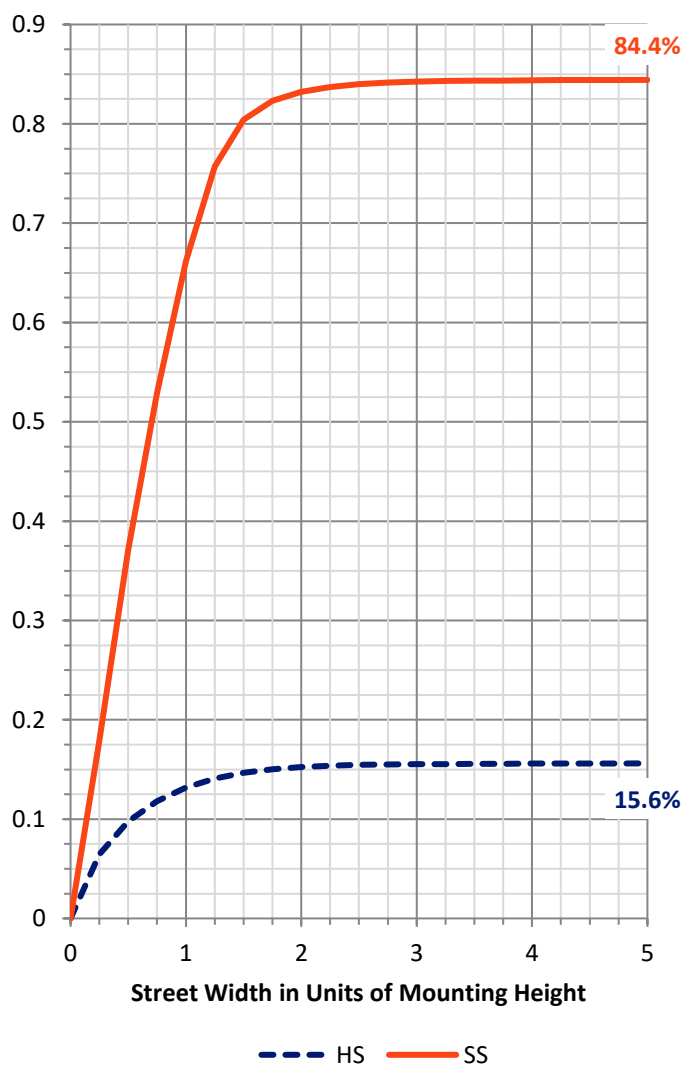
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1342.9	0.0	1342.9
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	7205.2	0.0	7205.2
	% Fixture	84.3	0.0	84.3
Total	Lumens	8548.0	0.0	8548.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.3	1.7
10°-20°	460.5	5.4
20°-30°	834.9	9.8
30°-40°	1439.9	16.8
40°-50°	2339.2	27.4
50°-60°	2465.6	28.8
60°-70°	753.3	8.8
70°-80°	96.6	1.1
80°-90°	14.7	0.2
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°	8548.0	100.0
0°-180°	8548.0	100.0

Coefficient of Utilization

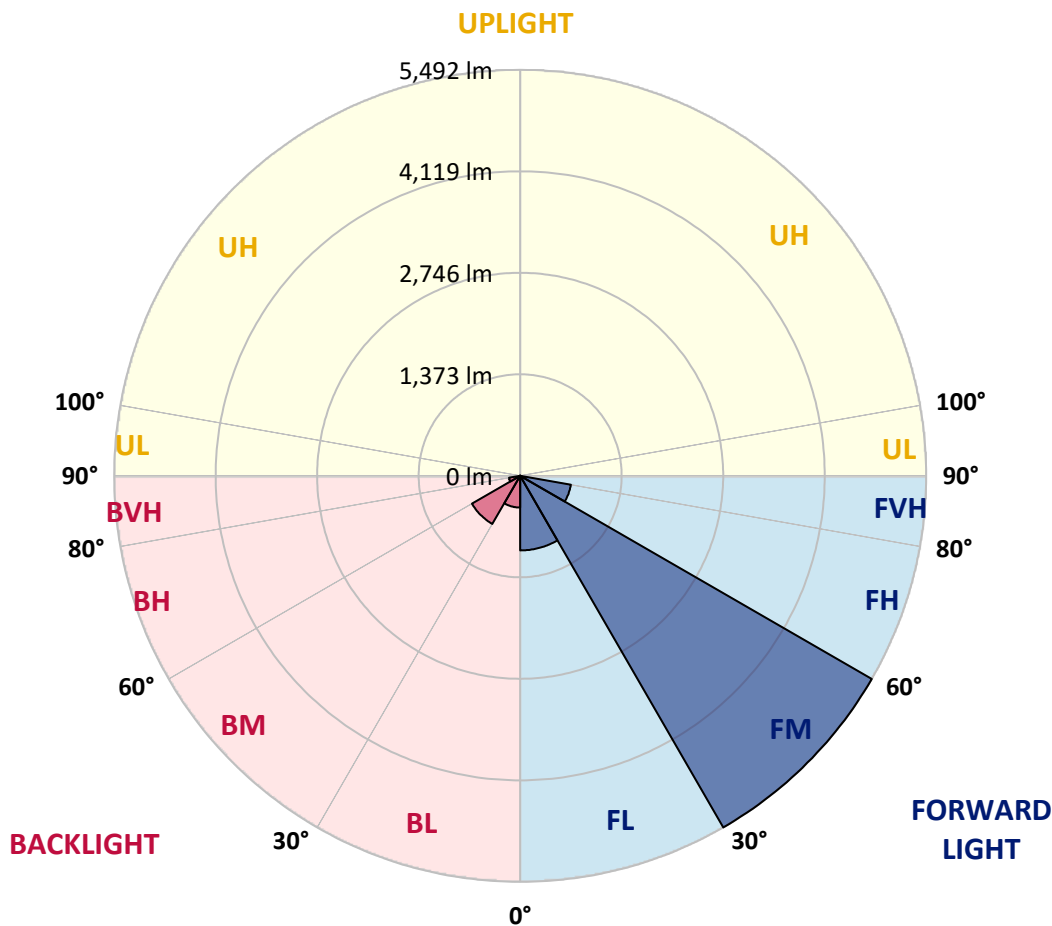


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1009.2	11.8			
FM (30°-60°)	5492.1	64.2			
FH (60°-80°)	696.7	8.2			G1/1800
FVH (80°-90°)	7.2	0.1			G0/10
BL (0°-30°)	429.6	5.0	B1/500		
BM (30°-60°)	752.6	8.8	B1/1000		
BH (60°-80°)	153.2	1.8	B1/500		G1/500
BVH (80°-90°)	7.5	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1422.8	1422.8	1422.8	1422.8	1422.8	1422.8	1422.8	1422.8	1422.8	1422.8	1422.8
2.5°	1638.7	1600.9	1602.5	1599.3	1594.6	1577.2	1525.2	1517.4	1482.7	1473.2	1441.7
5°	1835.7	1802.6	1821.5	1793.1	1766.3	1750.6	1665.5	1626.1	1570.9	1550.5	1506.3
7.5°	1958.6	1942.8	1936.5	1938.1	1912.9	1873.5	1835.7	1749.0	1674.9	1659.2	1566.2
10°	2018.4	2009.0	2018.4	2013.7	2024.7	2029.5	1963.3	1911.3	1802.6	1775.8	1630.8
12.5°	2032.6	2051.5	2059.4	2079.9	2106.7	2152.4	2147.6	2076.7	1931.8	1914.4	1730.1
15°	2067.3	2083.0	2075.2	2108.2	2158.7	2235.9	2276.8	2265.8	2109.8	2078.3	1845.1
17.5°	2098.8	2070.4	2097.2	2163.4	2213.8	2332.0	2431.3	2476.9	2303.6	2267.4	1950.7
20°	2141.3	2133.5	2128.7	2161.8	2251.6	2409.2	2606.2	2689.7	2521.1	2483.3	2101.9
22.5°	2270.5	2272.1	2269.0	2220.1	2284.7	2462.8	2759.0	2965.4	2781.1	2749.5	2273.7
25°	2440.7	2420.2	2404.5	2365.1	2357.2	2511.6	2913.4	3302.6	3093.0	3071.0	2459.6
27.5°	2620.3	2620.3	2573.1	2536.8	2486.4	2632.9	3055.2	3630.3	3469.6	3439.7	2621.9
30°	2815.7	2826.7	2820.4	2743.2	2711.7	2765.3	3200.2	4049.5	3901.4	3863.5	2889.8
32.5°	3104.1	3080.4	3107.2	3042.6	2949.6	2996.9	3428.7	4424.5	4462.3	4408.7	3241.1
35°	3485.4	3471.2	3453.9	3348.3	3238.0	3275.8	3751.7	4886.1	5166.6	5139.8	3595.7
37.5°	3827.3	3819.4	3805.2	3732.8	3605.1	3650.8	4118.8	5366.7	5853.6	5765.4	4096.7
40°	4186.5	4229.1	4183.4	4118.8	4002.2	4103.0	4550.5	5651.9	6431.9	6324.7	4479.6
42.5°	4673.4	4640.3	4660.8	4542.6	4479.6	4589.9	4983.8	5937.1	6880.9	6753.3	4886.1
45°	5191.8	5193.4	5138.3	5100.4	4936.6	5056.3	5250.1	6094.7	7238.6	7139.3	5193.4
47.5°	5524.3	5522.7	5582.6	5642.5	5473.9	5355.7	5431.3	6244.4	7423.0	7377.3	5305.3
50°	5472.3	5488.0	5565.3	5789.0	5877.2	5718.1	5601.5	6200.3	7506.5	7501.8	5401.4
52.5°	4760.1	4812.1	4941.3	5264.3	5708.6	5905.6	5779.5	6282.2	7547.4	7555.3	5544.8
55°	3624.0	3652.4	3898.2	4290.5	4782.1	5456.5	5708.6	6346.8	7579.0	7593.1	5718.1
56°	3143.5	3067.8	3422.3	3701.2	4289.0	5026.4	5529.0	6296.4	7560.1	7668.8	5804.8
57.5°	2373.0	2322.5	2609.3	2957.5	3523.2	4301.6	4971.2	6058.4	7432.4	7430.8	5680.3
60°	1443.3	1392.9	1613.5	1818.3	2135.0	2648.7	3359.3	4824.7	6283.8	6416.1	4599.4
62.5°	858.7	890.3	1107.7	1232.2	1334.6	1388.2	1738.0	2867.7	4192.9	4287.4	2853.5
65°	572.0	583.0	746.9	951.7	997.4	794.1	707.5	1161.3	1818.3	1760.0	1177.0
67.5°	352.9	378.2	501.1	715.4	792.6	579.8	335.6	433.3	501.1	501.1	340.3
70°	214.3	226.9	334.0	486.9	543.6	373.4	244.2	244.2	241.1	236.4	203.3
72.5°	102.4	110.3	170.2	250.5	255.3	197.0	189.1	206.4	201.7	200.1	168.6
75°	44.1	47.3	59.9	78.8	89.8	83.5	115.0	148.1	152.8	148.1	121.3
77.5°	14.2	15.8	22.1	28.4	29.9	36.2	48.8	61.5	70.9	66.2	59.9
80°	1.6	3.2	6.3	14.2	22.1	28.4	36.2	41.0	45.7	45.7	42.5
82.5°	1.6	1.6	6.3	12.6	20.5	26.8	34.7	39.4	45.7	47.3	44.1
85°	0.0	1.6	4.7	11.0	17.3	17.3	15.8	15.8	11.0	11.0	11.0
87.5°	0.0	0.0	1.6	1.6	1.6	3.2	3.2	3.2	3.2	3.2	3.2
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°	1422.8	1422.8	1422.8	1422.8	1422.8	1422.8	1422.8	1422.8	1422.8	1422.8	1422.8
2.5°	1435.4	1432.3	1389.7	1363.0	1348.8	1320.4	1303.1	1290.5	1281.0	1270.0	1271.6
5°	1454.3	1443.3	1372.4	1323.6	1265.3	1233.7	1207.0	1184.9	1170.7	1167.6	1161.3
7.5°	1507.9	1449.6	1342.5	1254.2	1180.2	1148.7	1125.0	1110.8	1117.1	1103.0	1114.0
10°	1548.9	1462.2	1306.2	1178.6	1104.5	1080.9	1068.3	1079.3	1095.1	1088.8	1080.9
12.5°	1599.3	1474.8	1247.9	1106.1	1036.8	1019.5	1041.5	1062.0	1093.5	1106.1	1090.4
15°	1656.0	1489.0	1173.9	1022.6	978.5	992.7	1030.5	1066.7	1098.2	1114.0	1123.5
17.5°	1725.4	1484.3	1101.4	956.4	923.3	964.3	1010.0	1043.1	1090.4	1114.0	1107.7
20°	1790.0	1468.5	1021.0	890.3	891.8	929.6	967.5	1021.0	1046.2	1077.8	1066.7
22.5°	1851.4	1440.2	937.5	844.6	844.6	902.9	921.8	956.4	978.5	994.2	992.7
25°	1938.1	1386.6	868.2	800.4	819.3	857.2	872.9	883.9	874.5	887.1	888.7
27.5°	1999.5	1331.4	811.5	761.0	795.7	824.1	819.3	813.0	791.0	773.7	784.7
30°	2065.7	1266.8	762.6	734.3	753.2	778.4	759.5	740.6	705.9	677.5	679.1
32.5°	2160.2	1236.9	720.1	702.7	728.0	731.1	710.6	682.3	647.6	620.8	619.2
35°	2336.7	1218.0	683.8	682.3	687.0	688.6	668.1	633.4	619.2	597.2	605.1
37.5°	2513.2	1208.5	658.6	652.3	650.8	652.3	628.7	595.6	622.4	620.8	624.0
40°	2738.5	1251.1	622.4	614.5	616.1	616.1	586.1	576.7	624.0	628.7	630.3
42.5°	2967.0	1304.7	598.8	573.5	579.8	579.8	564.1	553.1	586.1	554.6	549.9
45°	3165.5	1383.4	573.5	532.6	548.3	556.2	551.5	532.6	512.1	458.5	458.5
47.5°	3230.1	1452.8	543.6	493.2	505.8	540.5	526.3	486.9	450.6	406.5	403.4
50°	3343.6	1528.4	520.0	447.5	474.3	516.8	502.6	463.2	422.3	390.8	392.3
52.5°	3460.2	1615.1	475.9	393.9	427.0	497.9	497.9	453.8	390.8	368.7	365.6
55°	3635.1	1611.9	397.1	323.0	381.3	469.5	477.4	406.5	349.8	332.5	332.5
56°	3660.3	1539.4	357.7	302.5	360.8	461.7	463.2	393.9	334.0	315.1	315.1
57.5°	3471.2	1389.7	313.6	277.3	335.6	447.5	449.1	382.9	321.4	294.6	291.5
60°	2670.8	940.7	261.6	247.4	304.1	403.4	411.2	348.2	282.0	261.6	260.0
62.5°	1507.9	521.5	230.0	223.7	261.6	343.5	367.1	304.1	239.5	228.5	231.6
65°	688.6	286.8	193.8	181.2	211.1	264.7	296.2	250.5	197.0	184.4	184.4
67.5°	252.1	195.4	165.4	143.4	148.1	171.7	192.2	162.3	130.8	111.9	116.6
70°	179.6	163.9	145.0	124.5	115.0	111.9	110.3	91.4	64.6	50.4	53.6
72.5°	145.0	135.5	121.3	105.6	89.8	75.6	64.6	47.3	29.9	20.5	18.9
75°	104.0	99.3	88.2	75.6	63.0	53.6	44.1	29.9	15.8	7.9	7.9
77.5°	53.6	53.6	52.0	47.3	39.4	31.5	25.2	17.3	9.5	3.2	3.2
80°	41.0	44.1	45.7	41.0	36.2	28.4	20.5	12.6	6.3	1.6	1.6
82.5°	39.4	45.7	48.8	42.5	36.2	26.8	20.5	12.6	6.3	1.6	1.6
85°	9.5	9.5	14.2	15.8	20.5	22.1	17.3	11.0	4.7	1.6	1.6
87.5°	3.2	3.2	3.2	3.2	3.2	3.2	1.6	1.6	1.6	1.6	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)