

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: P651908

Luminaire Tested: **GALN-SA5A-840-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651908
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-SA5A-840-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 615mA 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: 11361.1 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

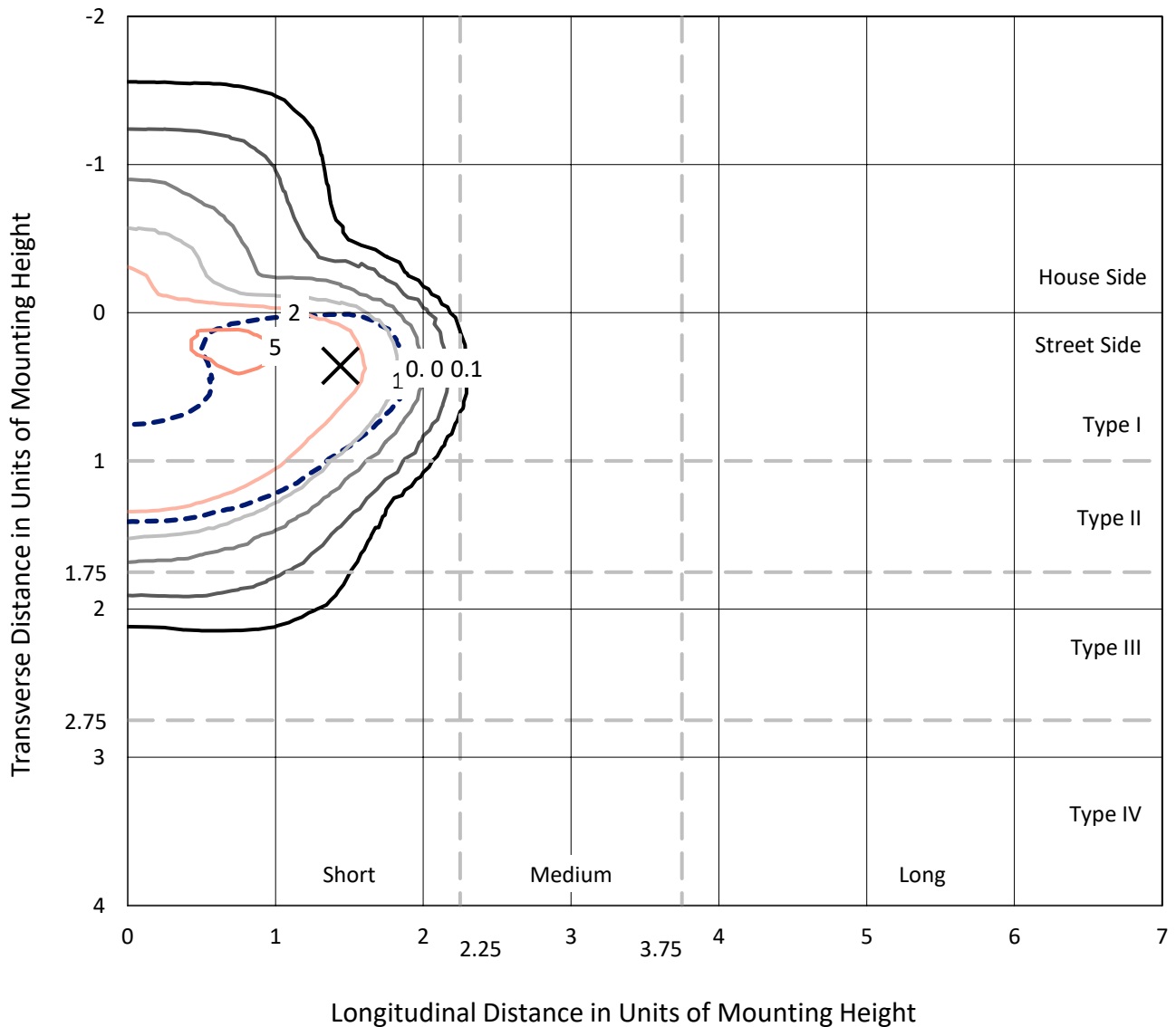
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

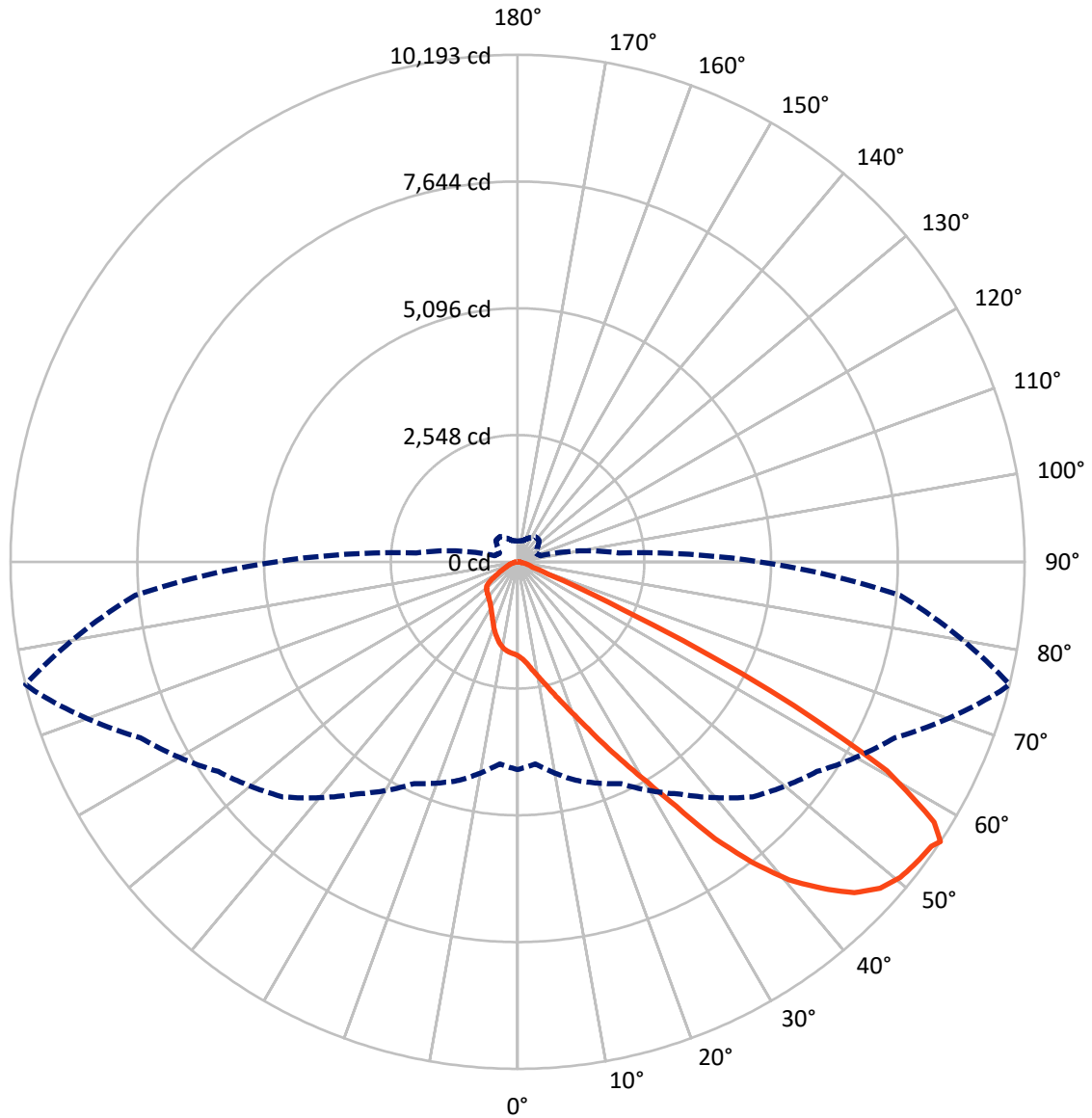
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	1784.8	0.0	1784.8
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	9576.3	0.0	9576.3
	% Fixture	84.3	0.0	84.3
Total	Lumens	11361.1	0.0	11361.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.5	1.7
10°-20°	612.0	5.4
20°-30°	1109.7	9.8
30°-40°	1913.8	16.8
40°-50°	3109.0	27.4
50°-60°	3277.0	28.8
60°-70°	1001.3	8.8
70°-80°	128.3	1.1
80°-90°	19.5	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°	11361.1	100.0
0°-180°	11361.1	100.0

Coefficient of Utilization

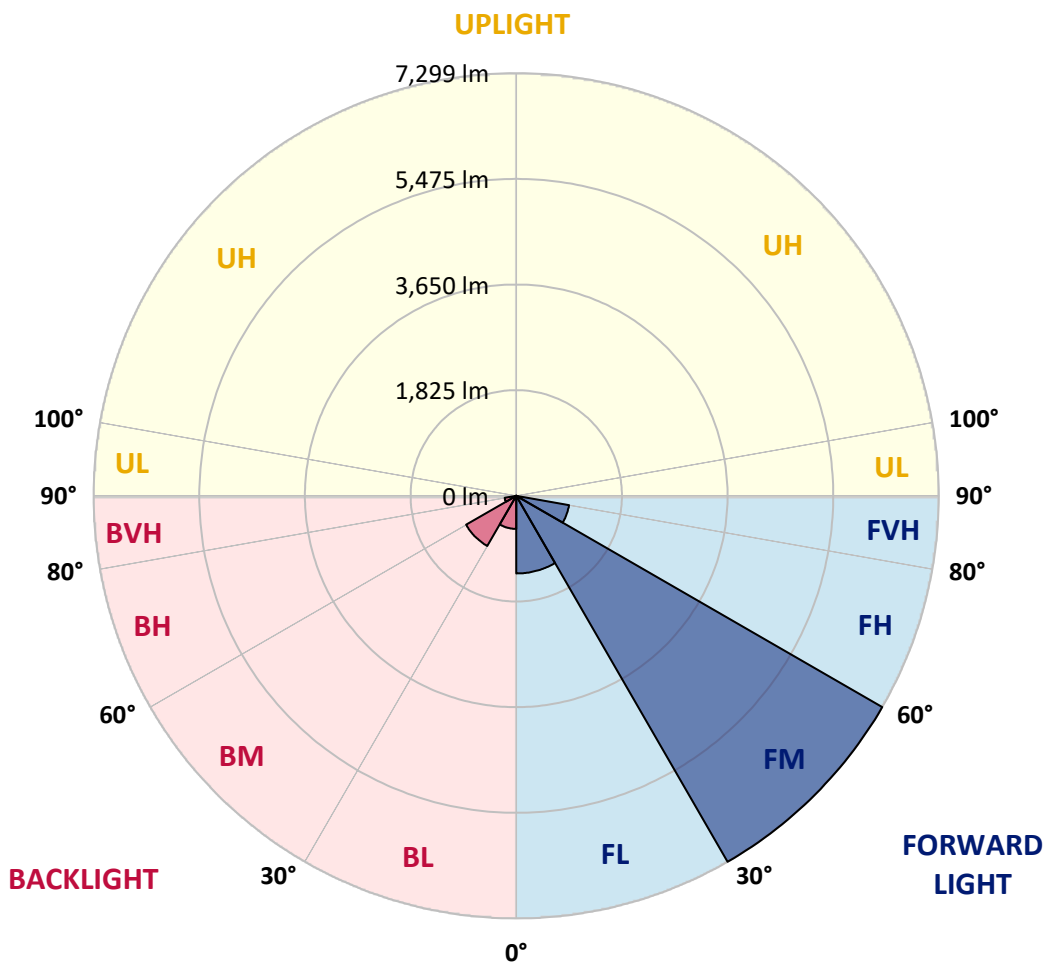


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1341.3	11.8			
FM (30°-60°)	7299.5	64.2			
FH (60°-80°)	926.0	8.2			G1/1800
FVH (80°-90°)	9.6	0.1			G0/10
BL (0°-30°)	570.9	5.0	B2/1000		
BM (30°-60°)	1000.3	8.8	B2/2500		
BH (60°-80°)	203.6	1.8	B1/500		G1/500
BVH (80°-90°)	9.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1891.1	1891.1	1891.1	1891.1	1891.1	1891.1	1891.1	1891.1	1891.1	1891.1	1891.1
2.5°	2177.9	2127.7	2129.8	2125.6	2119.3	2096.3	2027.2	2016.7	1970.6	1958.1	1916.2
5°	2439.7	2395.8	2420.9	2383.2	2347.6	2326.6	2213.6	2161.2	2088.0	2060.7	2002.1
7.5°	2603.1	2582.1	2573.8	2575.9	2542.3	2490.0	2439.7	2324.6	2226.1	2205.2	2081.6
10°	2682.7	2670.1	2682.7	2676.4	2691.0	2697.3	2609.4	2540.2	2395.8	2360.2	2167.5
12.5°	2701.5	2726.7	2737.1	2764.4	2799.9	2860.7	2854.4	2760.2	2567.5	2544.4	2299.5
15°	2747.6	2768.6	2758.1	2802.0	2869.1	2971.7	3026.1	3011.5	2804.1	2762.3	2452.3
17.5°	2789.5	2751.8	2787.4	2875.4	2942.3	3099.4	3231.4	3292.1	3061.7	3013.6	2592.6
20°	2846.0	2835.5	2829.3	2873.3	2992.6	3202.0	3463.8	3574.8	3350.7	3300.5	2793.6
22.5°	3017.8	3019.9	3015.7	2950.7	3036.6	3273.3	3666.9	3941.3	3696.3	3654.4	3022.0
25°	3243.9	3216.7	3195.7	3143.4	3132.9	3338.2	3872.2	4389.4	4110.9	4081.6	3269.1
27.5°	3482.7	3482.7	3419.8	3371.7	3304.6	3499.4	4060.7	4825.1	4611.5	4571.7	3484.8
30°	3742.4	3757.0	3748.6	3646.0	3604.1	3675.3	4253.4	5382.1	5185.3	5135.0	3840.8
32.5°	4125.6	4094.2	4129.7	4043.9	3920.3	3983.1	4557.0	5880.5	5930.8	5859.6	4307.8
35°	4632.4	4613.6	4590.5	4450.2	4303.6	4353.9	4986.3	6494.1	6866.9	6831.3	4779.0
37.5°	5086.8	5076.4	5057.5	4961.1	4791.5	4852.2	5474.2	7132.9	7780.0	7662.7	5445.0
40°	5564.3	5620.8	5560.1	5474.2	5319.2	5453.3	6048.1	7511.9	8548.5	8406.1	5953.9
42.5°	6211.4	6167.5	6194.6	6037.6	5953.9	6100.4	6624.0	7890.9	9145.4	8975.7	6494.1
45°	6900.4	6902.5	6829.2	6779.0	6561.1	6720.3	6977.9	8100.3	9620.8	9488.8	6902.5
47.5°	7342.3	7340.2	7419.8	7499.4	7275.2	7118.2	7218.7	8299.3	9865.8	9805.1	7051.2
50°	7273.1	7294.1	7396.8	7694.1	7811.4	7599.9	7444.9	8240.7	9976.8	9970.5	7178.9
52.5°	6326.6	6395.7	6567.5	6996.7	7587.3	7849.1	7681.5	8349.6	10031.3	10041.7	7369.5
55°	4816.7	4854.3	5181.1	5702.5	6355.9	7252.2	7587.3	8435.5	10073.2	10092.0	7599.9
56°	4177.9	4077.4	4548.6	4919.3	5700.5	6680.5	7348.6	8368.5	10048.0	10192.5	7715.1
57.5°	3153.8	3086.9	3468.0	3930.8	4682.6	5717.2	6607.2	8052.2	9878.4	9876.3	7549.6
60°	1918.3	1851.3	2144.5	2416.7	2837.6	3520.3	4464.9	6412.5	8351.7	8527.6	6113.0
62.5°	1141.3	1183.2	1472.3	1637.7	1773.8	1845.0	2309.9	3811.4	5572.7	5698.4	3792.6
65°	760.2	774.9	992.6	1264.9	1325.7	1055.5	940.3	1543.4	2416.7	2339.2	1564.3
67.5°	469.1	502.6	666.0	950.8	1053.4	770.7	446.1	575.9	666.0	666.0	452.4
70°	284.8	301.6	444.0	647.1	722.5	496.4	324.6	324.6	320.4	314.1	270.1
72.5°	136.2	146.6	226.1	333.0	339.3	261.8	251.3	274.3	268.0	265.9	224.0
75°	58.6	62.8	79.6	104.7	119.3	111.0	152.9	196.9	203.1	196.9	161.2
77.5°	18.8	20.9	29.4	37.7	39.8	48.2	64.9	81.7	94.3	88.0	79.6
80°	2.1	4.2	8.4	18.8	29.4	37.7	48.2	54.4	60.7	60.7	56.5
82.5°	2.1	2.1	8.4	16.7	27.2	35.6	46.1	52.4	60.7	62.8	58.6
85°	0.0	2.1	6.3	14.6	23.0	23.0	20.9	20.9	14.6	14.6	14.6
87.5°	0.0	0.0	2.1	2.1	2.1	4.2	4.2	4.2	4.2	4.2	4.2
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°	1891.1	1891.1	1891.1	1891.1	1891.1	1891.1	1891.1	1891.1	1891.1	1891.1	1891.1
2.5°	1907.8	1903.6	1847.1	1811.5	1792.7	1754.9	1731.9	1715.1	1702.6	1688.0	1690.0
5°	1933.0	1918.3	1824.0	1759.1	1681.7	1639.8	1604.1	1574.9	1556.0	1551.8	1543.4
7.5°	2004.2	1926.6	1784.3	1666.9	1568.5	1526.7	1495.3	1476.4	1484.8	1465.9	1480.6
10°	2058.6	1943.4	1736.1	1566.4	1468.0	1436.6	1419.9	1434.5	1455.4	1447.1	1436.6
12.5°	2125.6	1960.2	1658.6	1470.2	1378.0	1354.9	1384.3	1411.5	1453.4	1470.2	1449.2
15°	2201.0	1979.0	1560.2	1359.1	1300.5	1319.4	1369.6	1417.8	1459.6	1480.6	1493.2
17.5°	2293.2	1972.7	1463.8	1271.2	1227.2	1281.7	1342.4	1386.4	1449.2	1480.6	1472.3
20°	2379.0	1951.8	1357.0	1183.2	1185.3	1235.6	1285.8	1357.0	1390.6	1432.5	1417.8
22.5°	2460.7	1914.1	1246.0	1122.5	1122.5	1199.9	1225.1	1271.2	1300.5	1321.5	1319.4
25°	2575.9	1842.9	1153.9	1063.9	1089.0	1139.2	1160.2	1174.9	1162.3	1179.0	1181.1
27.5°	2657.6	1769.6	1078.5	1011.5	1057.6	1095.2	1089.0	1080.6	1051.2	1028.3	1042.9
30°	2745.5	1683.8	1013.6	975.9	1001.0	1034.5	1009.4	984.3	938.2	900.5	902.6
32.5°	2871.2	1644.0	957.1	934.0	967.5	971.7	944.5	906.8	860.7	825.1	823.0
35°	3105.7	1618.8	908.9	906.8	913.1	915.2	887.9	841.8	823.0	793.7	804.2
37.5°	3340.3	1606.2	875.4	867.0	864.9	867.0	835.6	791.6	827.2	825.1	829.3
40°	3639.8	1662.8	827.2	816.8	818.8	818.8	779.0	766.5	829.3	835.6	837.7
42.5°	3943.4	1734.0	795.8	762.3	770.7	770.7	749.8	735.0	779.0	737.1	730.9
45°	4207.3	1838.7	762.3	707.9	728.8	739.2	732.9	707.9	680.6	609.4	609.4
47.5°	4293.1	1930.9	722.5	655.5	672.2	718.3	699.5	647.1	599.0	540.3	536.1
50°	4443.9	2031.4	691.0	594.8	630.3	686.9	668.1	615.7	561.3	519.4	521.4
52.5°	4598.8	2146.6	632.4	523.5	567.5	661.8	661.8	603.2	519.4	490.1	485.8
55°	4831.3	2142.4	527.7	429.3	506.8	624.1	634.5	540.3	464.9	441.9	441.9
56°	4864.8	2046.1	475.4	402.1	479.5	613.6	615.7	523.5	444.0	418.8	418.8
57.5°	4613.6	1847.1	416.7	368.6	446.1	594.8	596.9	508.9	427.2	391.7	387.4
60°	3549.7	1250.2	347.7	328.8	404.2	536.1	546.6	462.8	374.8	347.7	345.6
62.5°	2004.2	693.2	305.8	297.4	347.7	456.5	487.9	404.2	318.3	303.7	307.9
65°	915.2	381.1	257.6	240.9	280.6	351.8	393.7	333.0	261.8	245.0	245.0
67.5°	335.1	259.7	219.9	190.6	196.9	228.2	255.5	215.7	173.8	148.7	155.0
70°	238.8	217.8	192.7	165.4	152.9	148.7	146.6	121.4	85.9	67.0	71.2
72.5°	192.7	180.1	161.2	140.3	119.3	100.5	85.9	62.8	39.8	27.2	25.1
75°	138.2	132.0	117.2	100.5	83.8	71.2	58.6	39.8	20.9	10.5	10.5
77.5°	71.2	71.2	69.1	62.8	52.4	41.9	33.5	23.0	12.5	4.2	4.2
80°	54.4	58.6	60.7	54.4	48.2	37.7	27.2	16.7	8.4	2.1	2.1
82.5°	52.4	60.7	64.9	56.5	48.2	35.6	27.2	16.7	8.4	2.1	2.1
85°	12.5	12.5	18.8	20.9	27.2	29.4	23.0	14.6	6.3	2.1	2.1
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	2.1	2.1	2.1	2.1	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)