

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P528390

Luminaire Tested: **GALN-SA3C-727-U-SL3-GRSWH**

Issue Date: 5/27/2021

Report Generated By 670246001

**Test Information**

Test Method: LM-79-08  
Report Number: P528390  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-727-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14849 lumens  
Efficiency: N/A  
Efficacy: 92.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

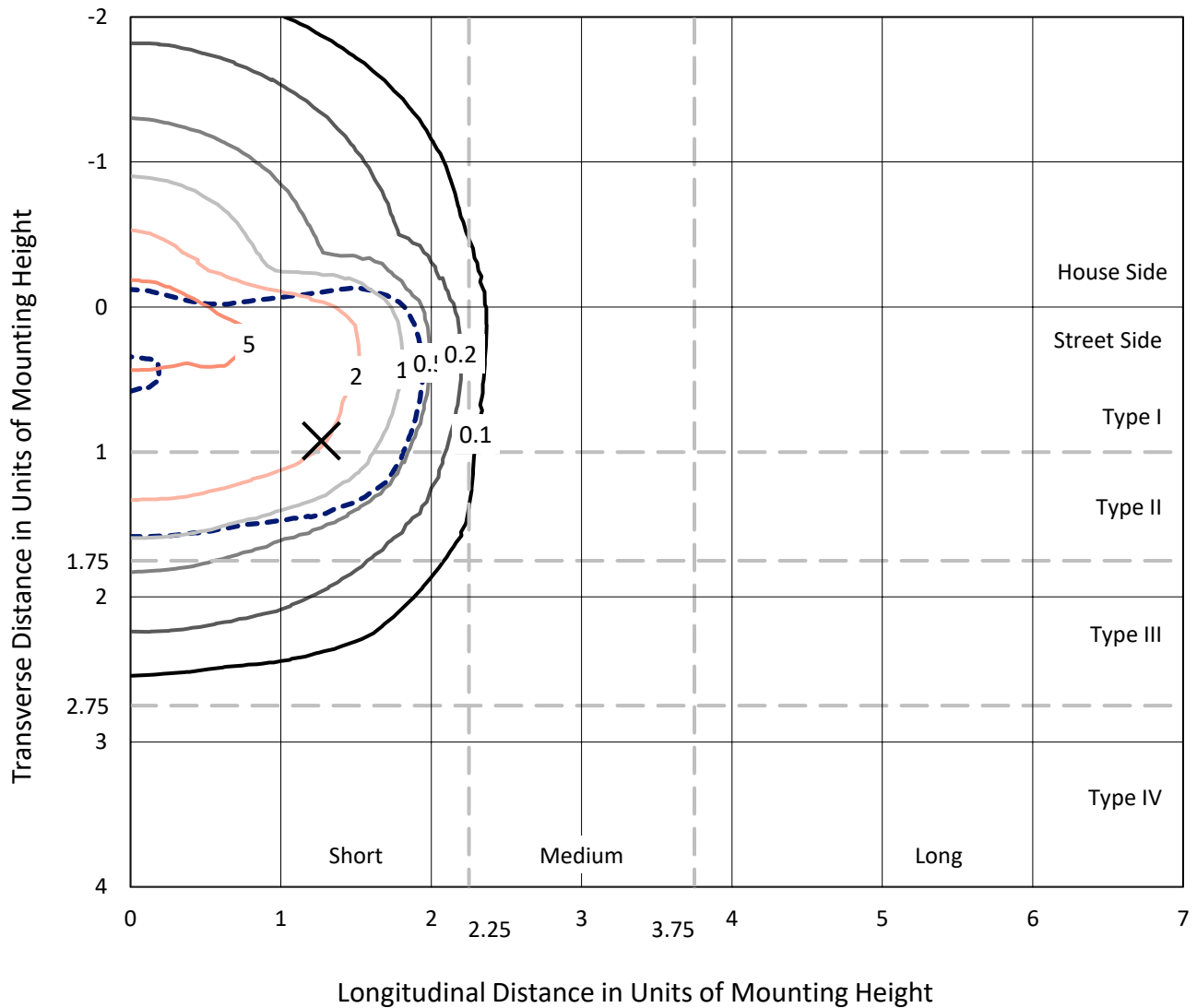
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

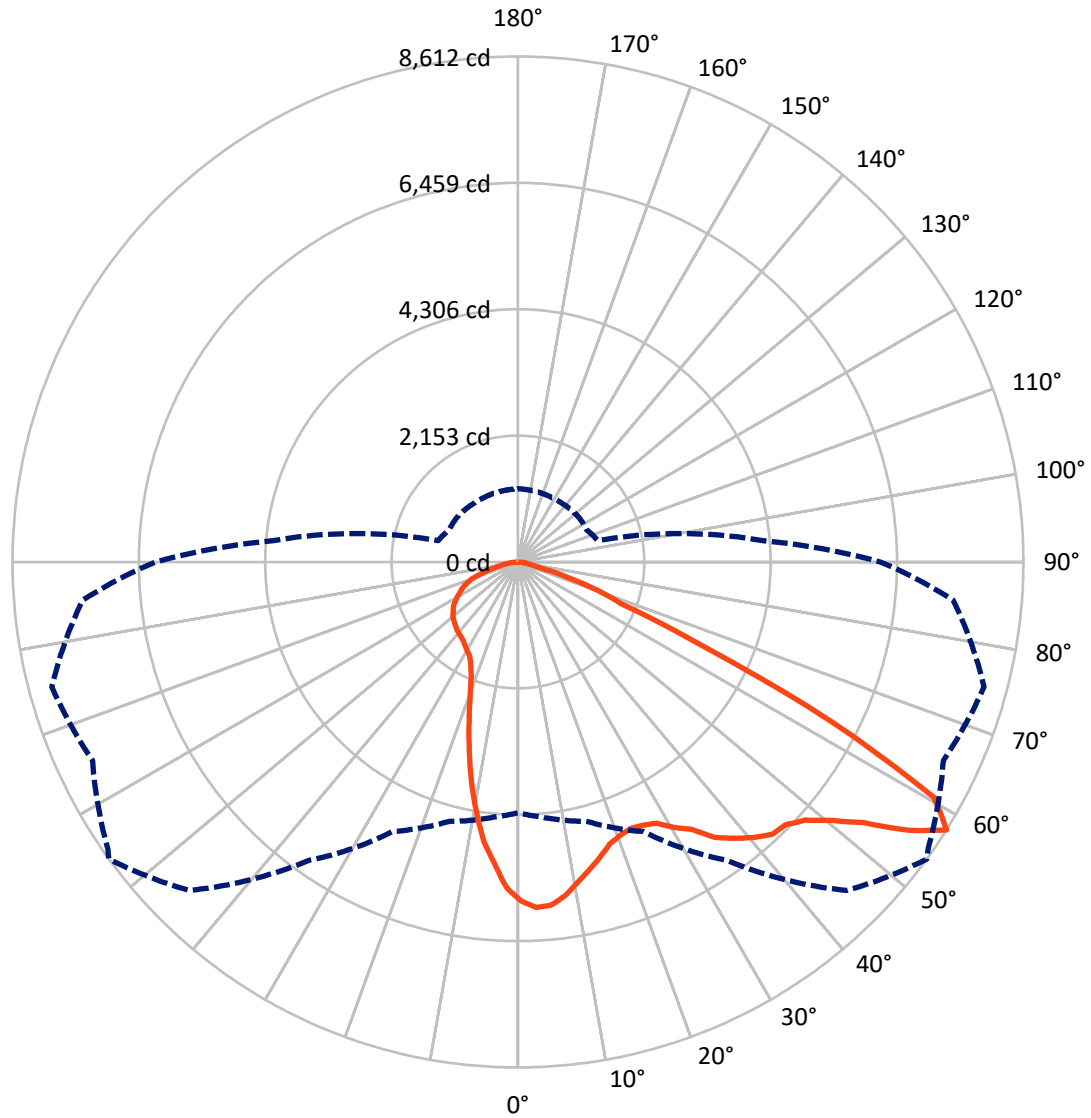
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4108.1	0.0	4108.1
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	10740.9	0.0	10740.9
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	14849.0	0.0	14849.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	497.7	3.4
10°-20°	1152.5	7.8
20°-30°	1619.2	10.9
30°-40°	2263.7	15.2
40°-50°	3064.6	20.6
50°-60°	3732.8	25.1
60°-70°	1944.2	13.1
70°-80°	498.2	3.4
80°-90°	76.0	0.5
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°	14849.0	100.0
0°-180°	14849.0	100.0

**Coefficient of Utilization**

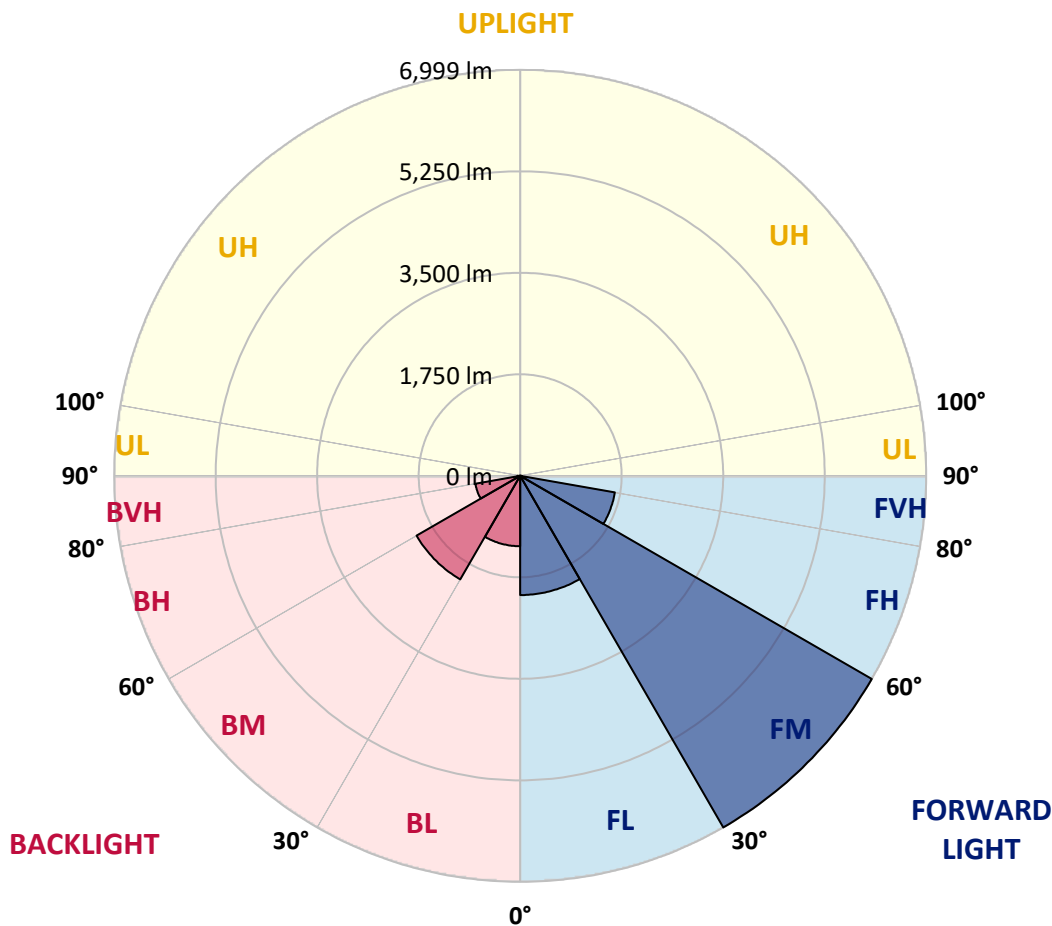


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2055.3	13.8			
FM (30°-60°)	6999.4	47.1			
FH (60°-80°)	1657.6	11.2			G1/1800
FVH (80°-90°)	28.7	0.2			G1/100
BL (0°-30°)	1214.1	8.2	B3/2500		
BM (30°-60°)	2061.8	13.9	B2/2500		
BH (60°-80°)	784.8	5.3	B2/1000		G2/1000
BVH (80°-90°)	47.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5771.6	5771.6	5771.6	5771.6	5771.6	5771.6	5771.6	5771.6	5771.6	5771.6	5771.6
2.5°	5935.8	5912.9	5916.7	5947.2	5909.1	5893.8	5893.8	5819.4	5825.1	5773.5	5760.2
5°	5798.4	5744.9	5781.2	5827.0	5834.6	5849.9	5874.7	5855.6	5802.2	5746.8	5657.1
7.5°	5439.5	5487.3	5500.6	5533.1	5601.8	5664.8	5743.0	5689.6	5687.7	5632.3	5578.9
10°	5124.6	5096.0	5168.5	5216.2	5330.7	5435.7	5556.0	5550.2	5578.9	5515.9	5424.3
12.5°	4811.6	4788.7	4823.1	4931.8	5092.2	5244.9	5388.0	5334.6	5487.3	5475.8	5279.2
15°	4479.5	4496.7	4546.3	4647.5	4857.4	5040.6	5222.0	5223.9	5359.4	5405.2	5141.8
17.5°	4246.7	4227.6	4290.6	4441.3	4628.4	4847.9	5054.0	5096.0	5304.0	5330.7	5099.8
20°	4073.0	4099.7	4181.8	4258.1	4473.8	4739.1	4971.9	4987.2	5292.6	5365.1	5033.0
22.5°	4031.0	4015.7	4042.4	4166.5	4344.0	4632.2	4928.0	4985.3	5290.7	5353.7	4907.0
25°	3987.1	4036.7	4034.8	4158.9	4288.6	4546.3	4964.3	5027.3	5391.8	5412.8	4924.2
27.5°	4086.3	4080.6	4134.0	4143.6	4303.9	4569.2	5040.6	5088.4	5559.8	5542.6	4937.6
30°	4185.6	4157.0	4189.4	4302.0	4376.4	4700.9	5250.6	5246.8	5777.4	5765.9	4979.6
32.5°	4307.7	4294.4	4315.4	4414.6	4540.6	4876.5	5428.1	5540.7	5998.8	6071.3	5124.6
35°	4330.6	4386.0	4435.6	4569.2	4748.6	5160.9	5762.1	5855.6	6254.5	6481.6	5401.4
37.5°	4475.7	4496.7	4613.1	4849.8	5013.9	5540.7	5973.9	6033.1	6487.4	6745.0	5693.4
40°	4630.3	4655.1	4830.7	5078.8	5304.0	5788.8	6172.4	6191.5	6561.8	6947.3	5884.2
42.5°	4840.2	4863.1	5036.8	5347.9	5649.5	6000.7	6348.0	6369.0	6556.1	7180.2	6187.7
45°	5057.8	5113.2	5317.4	5670.5	5941.5	6248.8	6388.1	6474.0	6609.5	7388.2	6433.9
47.5°	5363.2	5414.7	5582.7	5928.1	6245.0	6466.4	6573.3	6657.2	6737.4	7569.5	6592.3
50°	5687.7	5697.2	5901.4	6214.4	6447.3	6712.6	6918.7	6947.3	6905.4	7779.5	6861.5
52.5°	5926.2	5956.8	6115.2	6420.6	6767.9	7094.3	7376.8	7407.3	7325.2	7857.7	6953.1
55°	5531.2	5514.0	5771.6	6178.2	6983.6	7663.1	8073.4	8096.3	7630.6	8100.1	7252.7
57.5°	4275.3	4357.4	4576.8	5067.4	6204.9	7915.0	8611.6	8529.6	7997.1	8222.3	7443.6
60°	3107.2	3088.1	3235.1	3563.4	4676.1	6821.4	8142.1	8226.1	7697.4	7411.1	6138.1
62.5°	2530.8	2504.1	2515.5	2527.0	3017.5	4527.2	6027.4	6025.5	5928.1	5326.9	4139.8
65°	2023.1	2086.1	2091.8	2177.7	2240.7	2704.5	3492.8	3679.8	3204.6	2628.2	1906.7
67.5°	1525.0	1502.1	1578.4	1883.8	2002.1	1952.5	1906.7	1927.7	1370.4	988.7	931.4
70°	899.0	889.4	981.0	1313.1	1649.0	1551.7	1437.2	1439.1	940.9	690.9	769.2
72.5°	492.4	490.5	509.6	666.1	937.1	973.4	862.7	889.4	561.1	559.2	601.2
75°	274.8	269.1	263.4	293.9	337.8	356.9	364.5	368.4	385.5	431.3	448.5
77.5°	101.2	97.3	97.3	112.6	143.1	179.4	227.1	230.9	272.9	313.0	330.2
80°	34.4	38.2	51.5	70.6	95.4	127.9	154.6	158.4	192.8	219.5	225.2
82.5°	21.0	22.9	34.4	49.6	68.7	89.7	114.5	116.4	143.1	160.3	168.0
85°	9.5	11.5	19.1	30.5	43.9	59.2	61.1	61.1	59.2	61.1	57.3
87.5°	0.0	0.0	3.8	3.8	3.8	5.7	7.6	5.7	9.5	11.5	11.5
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°	5771.6	5771.6	5771.6	5771.6	5771.6	5771.6	5771.6	5771.6	5771.6	5771.6	5771.6
2.5°	5720.1	5699.1	5634.2	5577.0	5559.8	5483.4	5370.8	5384.2	5302.1	5340.3	5300.2
5°	5641.9	5571.2	5405.2	5334.6	5149.4	5065.5	5008.2	4865.0	4798.2	4784.9	4727.6
7.5°	5441.4	5397.5	5189.5	4998.6	4802.1	4634.1	4418.4	4271.5	4166.5	4137.9	4053.9
10°	5283.0	5185.7	4897.5	4607.4	4326.8	4034.8	3754.2	3534.7	3427.9	3303.8	3261.8
12.5°	5126.5	4979.6	4590.2	4218.0	3855.4	3487.0	3147.3	2880.1	2647.2	2591.9	2572.8
15°	5029.2	4773.4	4315.4	3866.8	3351.5	2870.5	2530.8	2355.2	2212.1	2152.9	2194.9
17.5°	4901.3	4603.6	4052.0	3454.6	2887.7	2444.9	2160.5	2051.8	2000.2	2005.9	1988.8
20°	4741.0	4443.2	3706.5	3080.5	2473.6	2120.5	1958.2	1918.2	1925.8	1939.1	1933.4
22.5°	4626.5	4248.6	3456.5	2698.8	2137.6	1941.1	1874.3	1845.6	1870.4	1881.9	1872.3
25°	4538.7	4082.5	3153.0	2361.0	1943.0	1839.9	1809.4	1807.5	1845.6	1860.9	1851.4
27.5°	4458.5	3927.9	2851.5	2103.3	1813.2	1761.6	1752.1	1775.0	1799.8	1815.1	1828.4
30°	4410.8	3809.6	2569.0	1887.6	1748.3	1723.5	1706.3	1727.3	1740.7	1755.9	1748.3
32.5°	4456.6	3725.6	2296.1	1765.5	1694.8	1670.0	1692.9	1679.6	1702.5	1715.8	1694.8
35°	4599.7	3651.2	2101.4	1700.6	1633.8	1643.3	1647.1	1641.4	1650.9	1639.5	1664.3
37.5°	4741.0	3624.5	1922.0	1645.2	1605.1	1605.1	1601.3	1589.9	1609.0	1605.1	1616.6
40°	4920.4	3641.6	1769.3	1586.1	1578.4	1574.6	1559.3	1557.4	1549.8	1551.7	1555.5
42.5°	5076.9	3679.8	1681.5	1547.9	1553.6	1561.2	1532.6	1509.7	1519.3	1500.2	1500.2
45°	5243.0	3714.2	1603.2	1521.2	1515.4	1513.5	1490.6	1477.3	1469.6	1471.5	1488.7
47.5°	5504.4	3763.8	1544.1	1484.9	1488.7	1460.1	1454.4	1437.2	1444.8	1456.3	1458.2
50°	5689.6	3868.8	1498.3	1442.9	1456.3	1437.2	1402.8	1395.2	1395.2	1414.3	1410.5
52.5°	5819.4	4015.7	1454.4	1397.1	1402.8	1387.6	1376.1	1358.9	1347.5	1374.2	1387.6
55°	6216.3	4260.0	1442.9	1358.9	1357.0	1341.8	1320.8	1303.6	1297.9	1301.7	1328.4
57.5°	6178.2	4183.7	1406.6	1292.1	1288.3	1267.3	1246.3	1240.6	1238.7	1242.5	1250.1
60°	5015.8	3090.0	1255.9	1215.8	1210.1	1206.2	1185.2	1162.3	1150.9	1162.3	1152.8
62.5°	3319.1	2068.9	1107.0	1124.2	1128.0	1118.4	1084.1	1061.2	1065.0	1078.4	1057.4
65°	1630.0	1215.8	1003.9	1049.7	1053.6	1026.8	994.4	967.7	954.3	965.8	956.2
67.5°	931.4	929.5	919.9	967.7	965.8	939.0	887.5	864.6	841.7	845.5	839.8
70°	790.2	805.4	824.5	853.1	851.2	820.7	759.6	742.4	710.0	706.2	696.6
72.5°	622.2	648.9	690.9	711.9	694.7	656.6	616.5	587.9	559.2	542.0	547.8
75°	461.9	500.1	523.0	536.3	509.6	488.6	456.2	421.8	387.4	372.2	366.5
77.5°	335.9	347.4	368.4	377.9	360.7	339.7	320.6	286.3	253.8	232.9	227.1
80°	234.8	242.4	257.7	257.7	257.7	248.1	223.3	189.0	168.0	148.9	145.1
82.5°	164.1	171.8	187.0	179.4	177.5	166.0	150.8	124.1	101.2	87.8	84.0
85°	57.3	63.0	76.3	91.6	97.3	95.4	85.9	68.7	53.4	43.9	40.1
87.5°	13.4	13.4	15.3	13.4	13.4	15.3	13.4	13.4	13.4	9.5	7.6
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)