

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: P383209

Luminaire Tested: **GLEON-SA5B-735-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383209  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA5B-735-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27204 lumens  
Efficiency: N/A  
Efficacy: 129.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

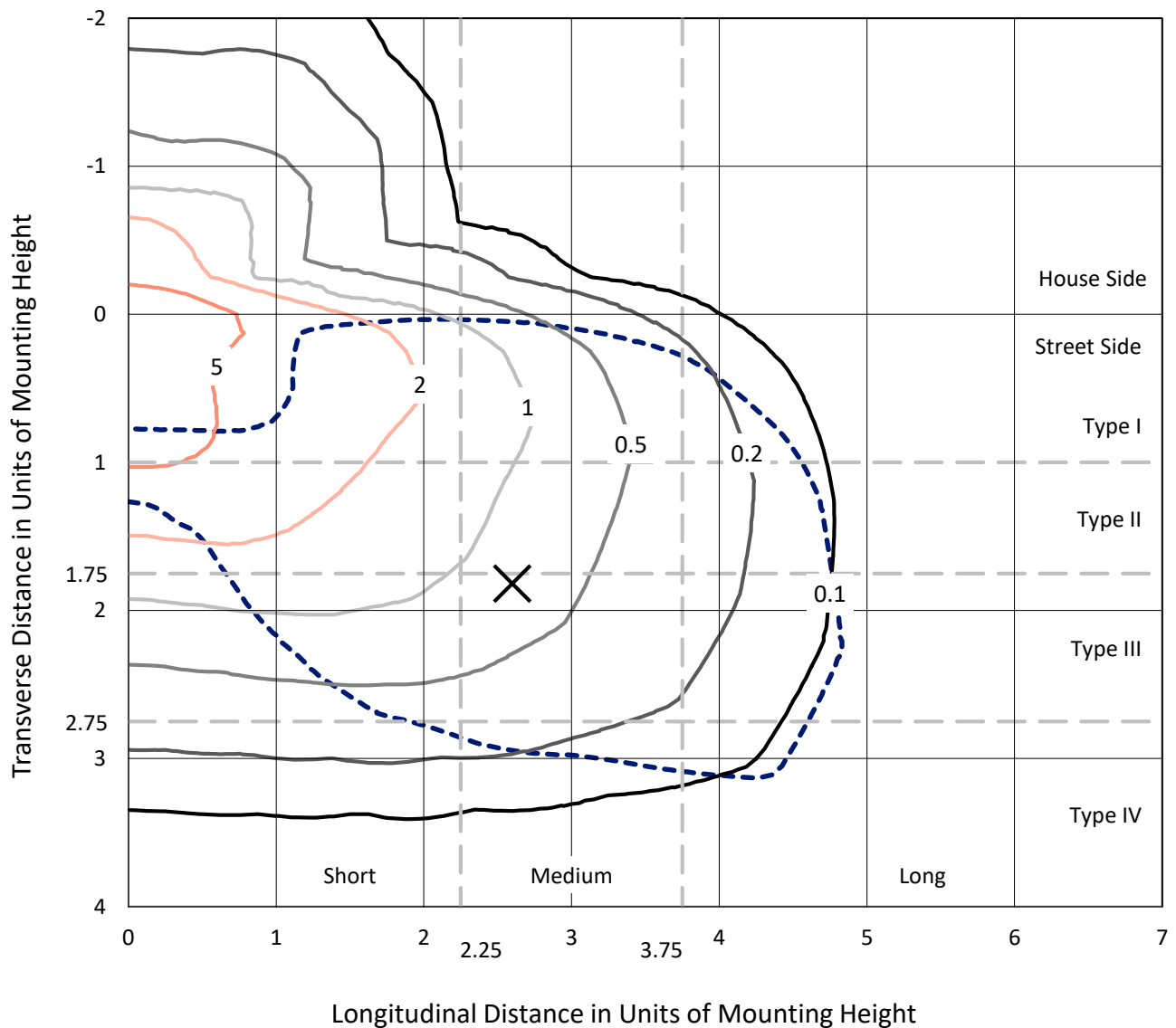
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

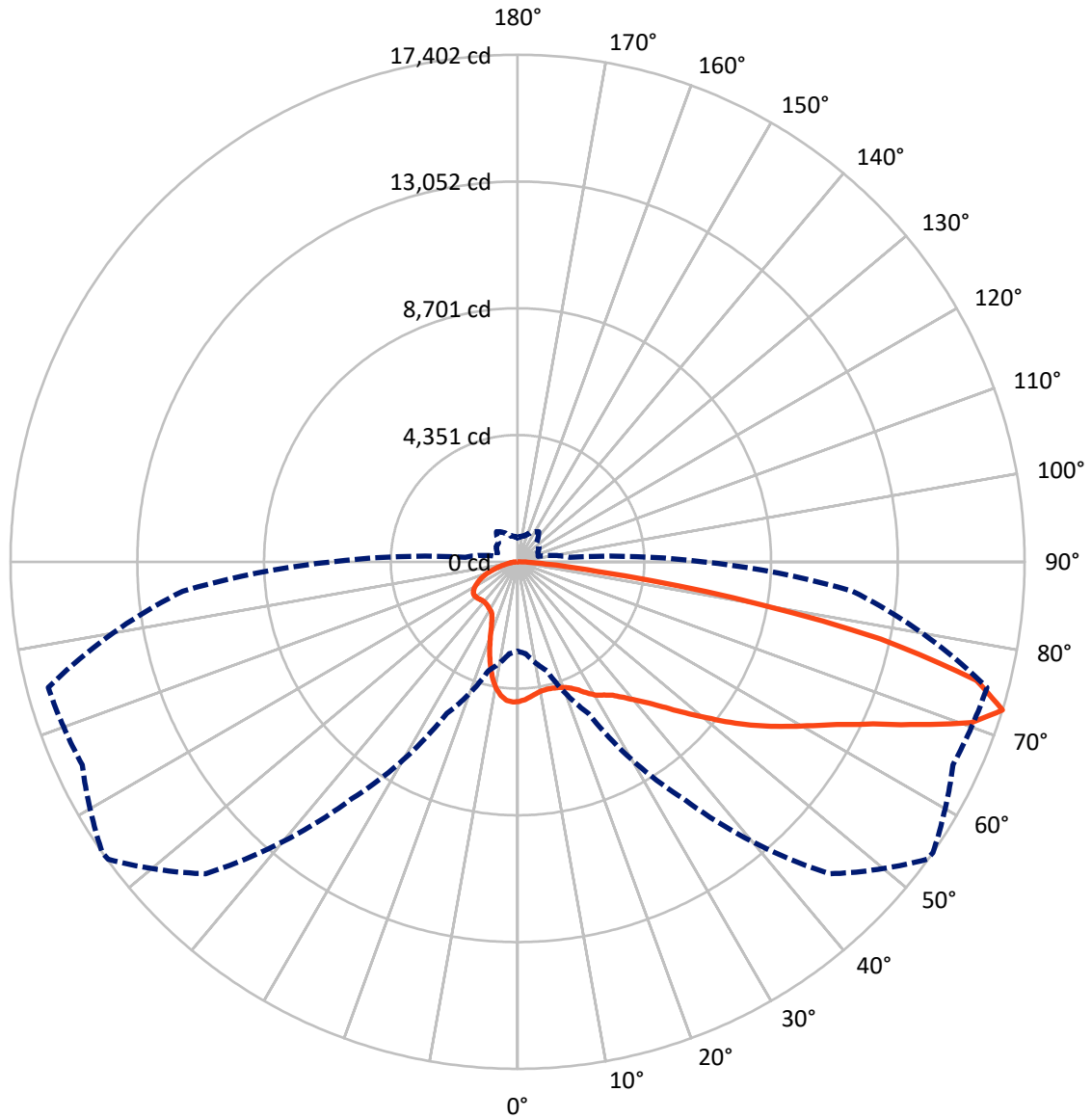
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5056.3	0.0	5056.3
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	22147.7	0.0	22147.7
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	27204.0	0.0	27204.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	434.2	1.6
10°-20°	1155.9	4.2
20°-30°	1905.9	7.0
30°-40°	2819.3	10.4
40°-50°	3935.1	14.5
50°-60°	5123.6	18.8
60°-70°	6296.8	23.1
70°-80°	4935.9	18.1
80°-90°	597.3	2.2
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°	27204.0	100.0
0°-180°	27204.0	100.0

**Coefficient of Utilization**

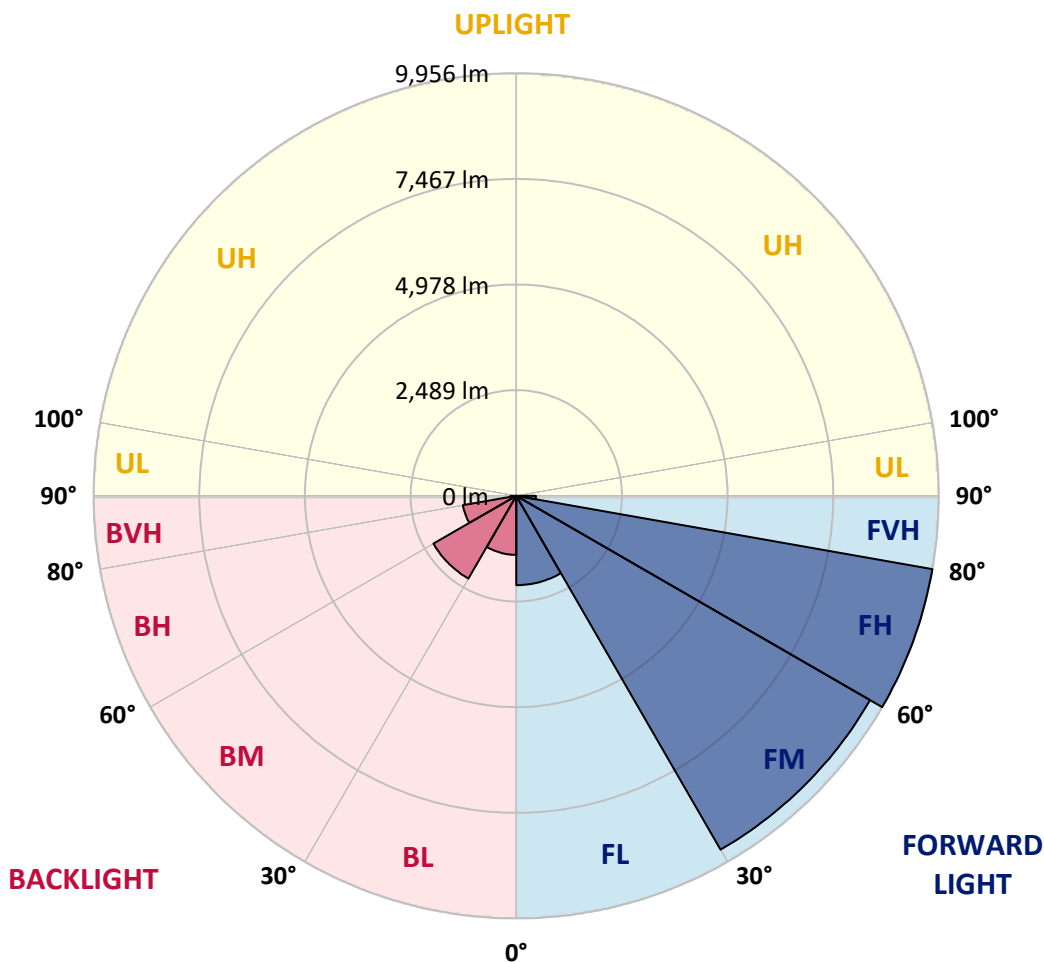


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2104.8	7.7			
FM (30°-60°)	9625.3	35.4			
FH (60°-80°)	9955.7	36.6			G4/12000
FVH (80°-90°)	461.8	1.7			G3/500
BL (0°-30°)	1391.2	5.1	B3/2500		
BM (30°-60°)	2252.7	8.3	B2/2500		
BH (60°-80°)	1277.0	4.7	B3/2500		G3/2500
BVH (80°-90°)	135.5	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4798.2	4798.2	4798.2	4798.2	4798.2	4798.2	4798.2	4798.2	4798.2	4798.2	4798.2
2.5°	4642.0	4631.0	4644.8	4664.1	4685.2	4713.6	4730.2	4737.6	4766.1	4777.1	4800.9
5°	4427.0	4421.5	4444.4	4477.5	4524.3	4590.6	4643.9	4653.9	4729.3	4782.6	4831.3
7.5°	4270.8	4270.8	4297.4	4336.9	4389.3	4478.4	4553.8	4567.6	4695.3	4810.1	4900.2
10°	4146.8	4151.3	4182.6	4229.4	4291.0	4385.6	4485.8	4501.4	4686.1	4874.4	5017.8
12.5°	4064.1	4075.1	4103.6	4145.9	4222.1	4336.9	4463.7	4484.8	4705.4	4966.4	5159.3
15°	4116.4	4134.8	4137.6	4155.0	4197.3	4322.2	4476.6	4498.6	4746.7	5060.1	5320.1
17.5°	4346.1	4352.6	4324.1	4287.4	4267.1	4347.1	4515.2	4538.1	4796.4	5152.9	5474.4
20°	4695.3	4691.6	4630.1	4530.8	4427.9	4440.8	4578.6	4602.5	4863.4	5234.6	5628.9
22.5°	5136.4	5123.5	5028.9	4846.0	4670.5	4597.0	4689.8	4710.0	4964.5	5351.4	5794.2
25°	5671.1	5642.6	5517.6	5272.3	5014.1	4824.9	4857.0	4876.3	5111.5	5481.8	5945.8
27.5°	6235.3	6206.8	6047.8	5751.0	5407.4	5112.4	5087.6	5104.1	5278.7	5578.3	6057.9
30°	6825.2	6794.8	6649.7	6317.0	5824.5	5410.1	5302.6	5309.1	5396.4	5630.6	6149.8
32.5°	7417.8	7389.3	7226.7	6840.8	6277.5	5729.9	5457.9	5449.6	5467.2	5684.9	6253.7
35°	8018.8	8029.8	7839.5	7412.3	6779.2	6085.5	5641.7	5624.2	5585.7	5796.1	6400.7
37.5°	8661.9	8654.5	8408.3	7961.8	7303.9	6471.4	5905.4	5902.7	5769.4	6006.4	6631.3
40°	9091.9	9096.6	8946.8	8524.1	7834.0	6898.7	6243.5	6237.1	6062.5	6321.7	6933.6
42.5°	9260.1	9290.4	9329.0	9060.7	8389.1	7394.0	6646.9	6637.7	6471.4	6773.7	7289.2
45°	9272.1	9332.7	9571.6	9537.6	8951.3	7960.8	7162.4	7136.7	7017.2	7374.6	7713.7
47.5°	9169.1	9231.6	9628.6	9821.5	9454.0	8559.1	7765.1	7744.9	7642.0	8126.3	8173.1
50°	8944.0	9003.8	9510.9	9960.3	9867.4	9134.2	8459.8	8406.5	8351.3	8994.6	8698.7
52.5°	8522.3	8637.1	9353.9	9993.4	10114.7	9645.1	9190.3	9155.3	9185.7	9910.6	9225.2
55°	7523.5	7652.1	8948.6	9965.8	10297.5	10074.2	9920.7	9918.9	10076.0	10871.7	9790.3
57.5°	6963.9	7054.9	8123.5	9918.9	10514.3	10500.5	10643.9	10661.4	10967.3	11918.3	10382.0
60°	6647.8	6743.4	7705.4	9745.3	10850.6	11051.9	11381.7	11416.6	11873.3	13077.0	11094.1
62.5°	6360.2	6464.9	7446.3	9391.5	11246.7	11840.2	12265.6	12296.9	12832.5	14267.8	11782.3
65°	5868.7	5987.1	7066.8	9159.1	11606.8	12868.4	13389.4	13410.5	13934.3	15515.6	12308.8
67.5°	5174.0	5282.4	6351.0	8645.4	11873.3	14117.1	14883.4	14895.4	15026.8	16396.7	12578.0
70°	4362.6	4404.0	5331.2	7585.0	11558.1	15284.9	16520.8	16523.5	16022.8	16961.0	12534.0
72.5°	3065.3	3162.7	3870.2	5741.9	9932.7	15142.5	17370.8	17402.0	16485.9	16676.1	11532.4
75°	1880.0	1982.9	2427.6	3479.7	6301.5	11909.1	16049.4	16266.3	15617.6	14868.7	9420.9
77.5°	1256.9	1295.6	1584.1	2028.8	2854.8	6851.8	12339.2	12747.1	12974.0	10843.3	6024.9
80°	701.1	774.6	1050.2	1260.7	1269.9	2722.5	7398.5	7494.1	7218.5	4317.6	1858.8
82.5°	371.2	411.7	701.1	740.6	692.8	911.5	2757.5	2760.2	2306.3	1157.7	552.2
85°	287.6	321.6	480.6	452.1	353.7	404.3	909.7	959.3	784.7	474.2	180.1
87.5°	143.4	178.3	326.2	286.6	138.7	115.8	325.3	347.3	309.6	185.6	65.2
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°	4798.2	4798.2	4798.2	4798.2	4798.2	4798.2	4798.2	4798.2	4798.2	4798.2	4798.2
2.5°	4810.1	4818.4	4828.5	4817.5	4813.8	4799.1	4774.3	4768.8	4755.9	4756.9	4764.2
5°	4852.4	4866.2	4860.7	4818.4	4767.8	4697.1	4623.6	4561.1	4519.8	4517.1	4514.3
7.5°	4933.3	4942.4	4899.3	4778.9	4637.4	4473.9	4319.5	4184.4	4102.6	4082.4	4077.8
10°	5060.1	5058.2	4939.7	4697.1	4415.1	4122.8	3874.8	3687.3	3578.0	3545.8	3537.6
12.5°	5201.6	5180.4	4953.5	4548.3	4100.8	3695.5	3381.3	3172.8	3058.8	3022.0	3012.9
15°	5347.6	5295.3	4919.5	4325.9	3714.9	3235.3	2905.4	2712.4	2650.9	2630.7	2627.0
17.5°	5483.6	5382.6	4822.1	4024.6	3274.8	2776.8	2519.5	2442.2	2457.0	2483.6	2484.5
20°	5616.9	5441.4	4665.8	3644.1	2810.8	2399.1	2311.8	2368.7	2438.6	2492.8	2500.2
22.5°	5748.3	5482.7	4464.6	3204.9	2395.4	2186.8	2248.4	2352.3	2432.2	2491.0	2501.1
25°	5858.5	5492.9	4187.2	2736.3	2106.9	2106.9	2218.1	2316.4	2395.4	2453.3	2463.4
27.5°	5898.9	5424.9	3795.8	2302.6	1961.7	2070.2	2175.8	2257.6	2324.7	2386.3	2397.2
30°	5914.6	5298.9	3343.7	1954.4	1902.0	2030.7	2118.9	2188.7	2252.1	2310.0	2320.1
32.5°	5917.4	5147.4	2864.0	1756.8	1860.7	1989.3	2048.1	2109.7	2177.7	2200.6	2204.3
35°	5934.8	4968.2	2358.7	1655.7	1822.1	1950.7	1997.6	2041.7	1931.4	1939.7	1947.0
37.5°	5985.4	4790.9	1936.0	1598.8	1797.2	1930.4	1986.5	1826.7	1740.3	1720.1	1717.3
40°	6080.0	4601.6	1622.7	1552.9	1788.1	1940.6	1915.8	1705.4	1556.5	1445.3	1428.8
42.5°	6211.4	4397.6	1422.4	1522.5	1794.5	1989.3	1817.4	1588.7	1341.5	1269.9	1260.7
45°	6359.3	4183.5	1313.9	1501.4	1816.5	2027.0	1797.2	1433.4	1241.4	1187.2	1182.5
47.5°	6502.7	3921.6	1257.9	1492.2	1846.9	1996.7	1711.8	1385.6	1193.6	1165.1	1167.9
50°	6667.1	3685.5	1223.9	1482.1	1873.5	1977.4	1615.3	1360.8	1175.2	1210.1	1246.9
52.5°	6805.9	3441.0	1193.6	1461.9	1883.6	1943.4	1590.5	1365.4	1175.2	1242.3	1277.2
55°	6970.3	3256.4	1158.7	1419.6	1864.3	1846.9	1573.1	1392.9	1189.0	1146.7	1150.4
57.5°	7182.6	3195.8	1120.1	1353.4	1800.0	1706.3	1564.8	1419.6	1180.7	1154.1	1163.2
60°	7476.6	3260.0	1104.4	1267.1	1699.9	1596.0	1565.7	1405.8	1122.8	1076.9	1077.8
62.5°	7756.9	3331.7	1103.5	1212.9	1576.7	1497.7	1544.6	1360.8	1093.5	1066.8	1076.9
65°	7848.8	3259.1	1059.4	1152.2	1438.0	1380.1	1505.9	1313.0	1071.4	1030.9	1029.1
67.5°	7725.6	3034.1	970.3	1054.0	1279.0	1243.2	1455.4	1256.1	1036.4	1003.4	997.9
70°	7360.0	2531.4	860.0	924.4	1098.0	1088.8	1375.5	1189.9	989.6	961.1	937.2
72.5°	6375.9	1803.7	724.9	769.1	894.0	923.4	1265.2	1103.5	923.4	861.9	825.2
75°	5236.5	1335.1	595.4	604.6	679.0	758.9	1113.7	1002.4	845.4	740.6	712.1
77.5°	3206.8	816.9	474.2	477.8	487.0	605.5	917.0	889.4	746.1	617.4	597.2
80°	1038.3	445.7	342.7	360.2	332.7	443.8	709.4	757.2	640.4	516.4	494.4
82.5°	395.1	260.0	231.6	243.5	230.7	297.7	517.3	606.4	524.6	424.5	345.5
85°	191.2	147.0	136.9	153.4	142.4	152.5	330.8	446.6	397.9	276.6	257.3
87.5°	68.0	65.2	52.4	70.7	60.6	54.2	101.1	225.2	262.8	190.2	170.0
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)