

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: P382621

Luminaire Tested: **GLEON-SA0A-735-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382621  
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-SA0A-735-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43933.6 lumens  
Efficiency: N/A  
Efficacy: 136.0 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

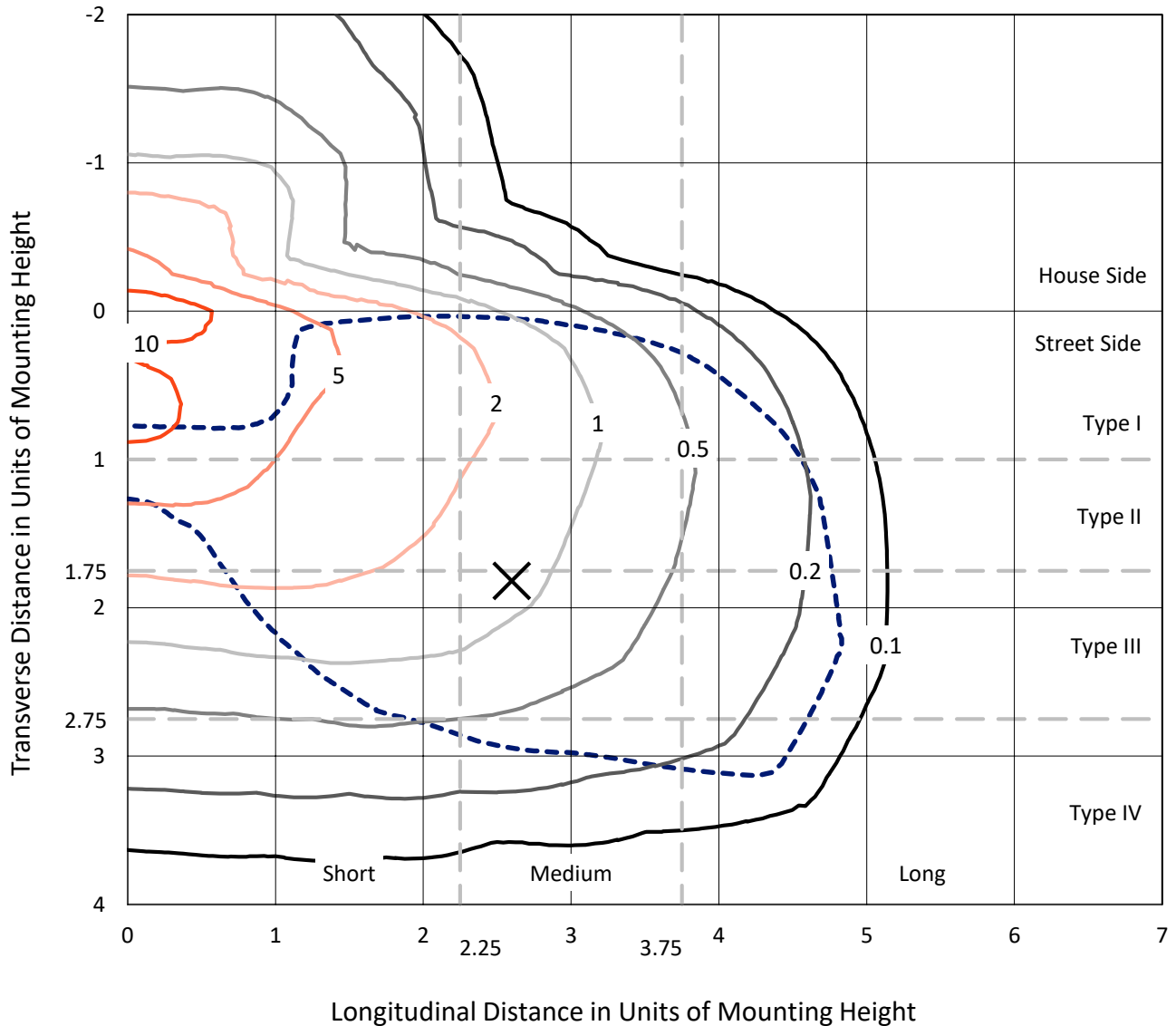
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

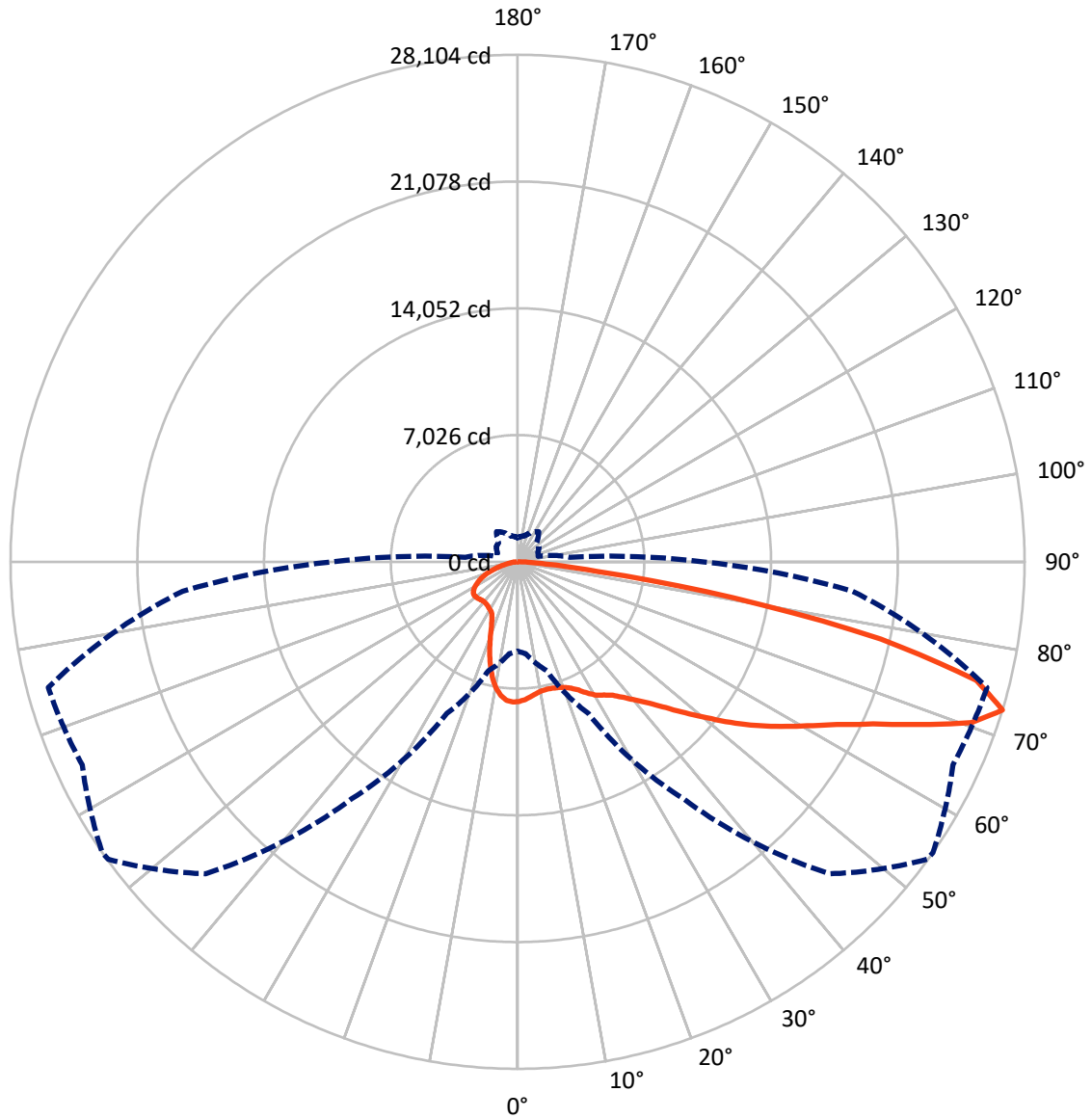
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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	8165.8	0.0	8165.8
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	35767.8	0.0	35767.8
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	43933.6	0.0	43933.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	701.2	1.6
10°-20°	1866.8	4.2
20°-30°	3077.9	7.0
30°-40°	4553.0	10.4
40°-50°	6355.1	14.5
50°-60°	8274.5	18.8
60°-70°	10169.1	23.1
70°-80°	7971.4	18.1
80°-90°	964.6	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°	43933.6	100.0
0°-180°	43933.6	100.0

**Coefficient of Utilization**

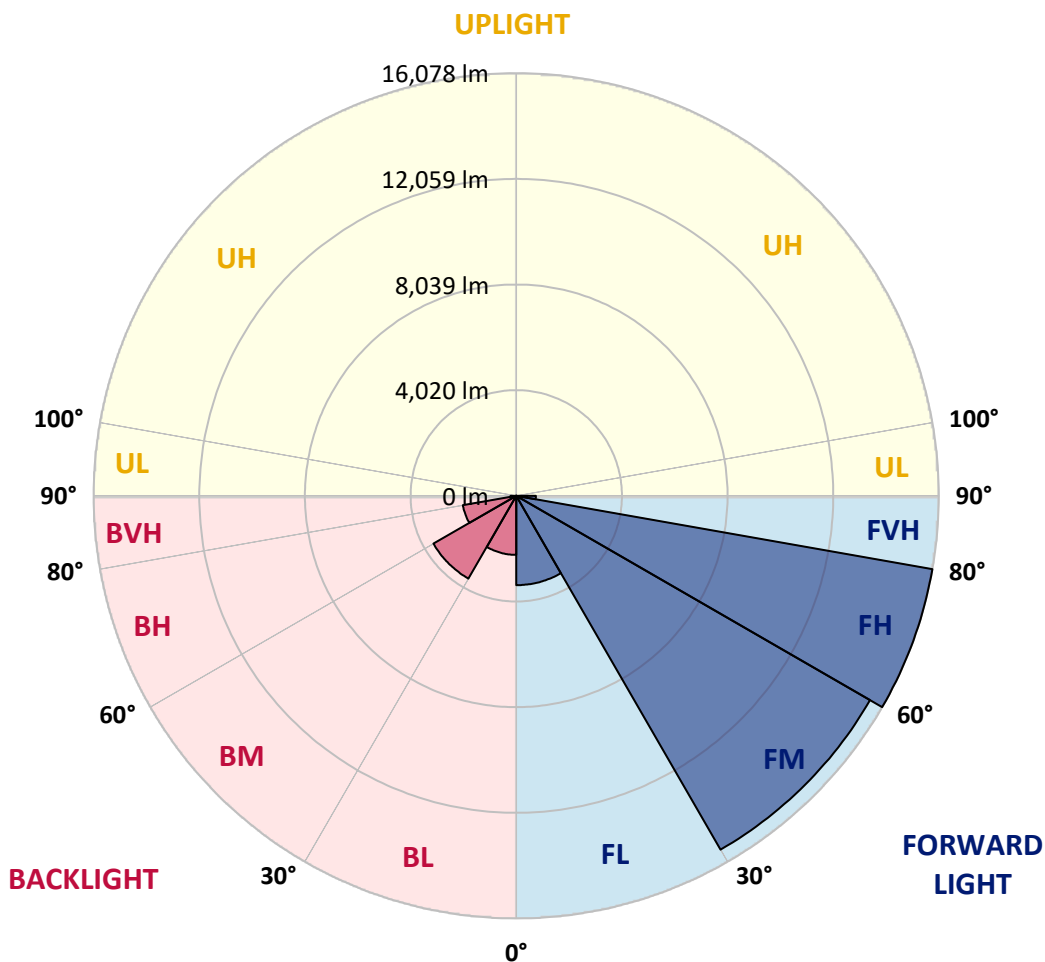


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3399.2	7.7			
FM (30°-60°)	15544.6	35.4			
FH (60°-80°)	16078.2	36.6			G5
FVH (80°-90°)	745.8	1.7			G4/750
BL (0°-30°)	2246.8	5.1	B3/2500		
BM (30°-60°)	3638.0	8.3	B3/5000		
BH (60°-80°)	2062.2	4.7	B3/2500		G3/2500
BVH (80°-90°)	218.8	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-G5**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7749.0	7749.0	7749.0	7749.0	7749.0	7749.0	7749.0	7749.0	7749.0	7749.0	7749.0
2.5°	7496.7	7478.8	7501.1	7532.3	7566.4	7612.4	7639.2	7651.0	7697.0	7714.8	7753.4
5°	7149.4	7140.6	7177.7	7231.0	7306.8	7413.6	7499.6	7516.0	7637.7	7723.7	7802.4
7.5°	6897.2	6897.2	6940.2	7004.0	7088.6	7232.5	7354.2	7376.5	7582.8	7768.3	7913.7
10°	6696.9	6704.3	6754.7	6830.4	6929.9	7082.6	7244.5	7269.6	7567.9	7872.1	8103.6
12.5°	6563.3	6581.1	6627.1	6695.4	6818.6	7004.0	7208.8	7243.0	7599.1	8020.5	8332.1
15°	6647.9	6677.6	6682.0	6710.2	6778.5	6980.3	7229.6	7265.2	7665.9	8171.9	8591.8
17.5°	7018.8	7029.3	6983.3	6923.9	6891.2	7020.3	7291.9	7329.0	7746.0	8321.7	8841.1
20°	7582.8	7576.8	7477.4	7317.1	7150.9	7171.7	7394.3	7432.9	7854.3	8453.8	9090.4
22.5°	8295.1	8274.3	8121.4	7826.1	7542.6	7424.0	7573.9	7606.5	8017.6	8642.2	9357.5
25°	9158.7	9112.7	8910.8	8514.6	8097.7	7792.0	7843.9	7875.1	8255.0	8853.0	9602.4
27.5°	10069.8	10023.7	9767.1	9287.7	8732.8	8256.4	8216.3	8243.1	8525.1	9008.8	9783.4
30°	11022.4	10973.4	10739.0	10201.8	9406.5	8737.3	8563.6	8574.0	8715.0	9093.4	9931.8
32.5°	11979.6	11933.6	11670.9	11047.7	10138.0	9253.6	8814.4	8801.1	8829.2	9181.0	10099.5
35°	12950.0	12967.9	12660.7	11970.7	10948.3	9827.9	9111.2	9083.0	9020.6	9360.5	10336.9
37.5°	13988.8	13976.9	13579.2	12858.1	11795.5	10451.1	9537.1	9532.6	9317.4	9700.3	10709.4
40°	14683.2	14690.7	14448.8	13766.2	12651.8	11141.1	10083.2	10072.7	9790.8	10209.3	11197.6
42.5°	14954.8	15003.8	15066.1	14632.7	13548.1	11940.9	10734.6	10719.7	10451.1	10939.3	11771.8
45°	14974.1	15072.0	15457.8	15403.0	14456.2	12856.6	11567.0	11525.5	11332.6	11909.8	12457.4
47.5°	14807.9	14908.8	15549.9	15861.5	15267.9	13822.6	12540.5	12507.8	12341.6	13123.6	13199.4
50°	14444.3	14540.8	15359.9	16085.5	15935.6	14751.5	13662.4	13576.3	13487.2	14525.9	14048.1
52.5°	13763.2	13948.7	15106.2	16139.0	16334.8	15576.6	14842.0	14785.6	14834.6	16005.4	14898.4
55°	12150.2	12358.0	14451.8	16094.4	16630.1	16269.6	16021.7	16018.7	16272.5	17557.5	15811.0
57.5°	11246.5	11393.4	13119.2	16018.7	16980.3	16958.1	17189.6	17217.7	17711.9	19247.7	16766.6
60°	10736.1	10890.4	12444.0	15738.3	17523.4	17848.5	18381.1	18437.5	19175.0	21118.9	17916.6
62.5°	10271.6	10440.8	12025.5	15167.0	18163.0	19121.6	19808.6	19859.1	20724.2	23042.1	19028.1
65°	9477.7	9669.1	11412.7	14791.6	18744.7	20782.1	21623.5	21657.6	22503.4	25057.2	19878.4
67.5°	8355.9	8530.9	10256.7	13962.0	19175.0	22798.7	24036.3	24055.5	24267.7	26480.3	20313.1
70°	7045.6	7112.4	8609.6	12249.7	18666.1	24684.8	26680.6	26685.0	25876.3	27391.4	20242.0
72.5°	4950.3	5107.6	6250.2	9272.9	16041.0	24454.7	28053.2	28103.7	26624.2	26931.4	18624.5
75°	3036.1	3202.3	3920.5	5619.6	10176.6	19232.9	25919.4	26269.5	25221.9	24012.5	15214.5
77.5°	2029.9	2092.3	2558.2	3276.4	4610.5	11065.5	19927.4	20586.2	20952.7	17511.6	9729.9
80°	1132.2	1251.0	1696.1	2035.9	2050.8	4396.8	11948.4	12102.8	11657.6	6972.9	3001.9
82.5°	599.5	664.8	1132.2	1196.0	1118.9	1472.0	4453.2	4457.6	3724.6	1869.7	891.9
85°	464.5	519.3	776.1	730.1	571.3	652.9	1469.1	1549.2	1267.3	765.7	290.8
87.5°	231.5	287.8	526.8	463.0	224.0	187.0	525.3	560.9	500.1	299.8	105.4
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°	7749.0	7749.0	7749.0	7749.0	7749.0	7749.0	7749.0	7749.0	7749.0	7749.0	7749.0
2.5°	7768.3	7781.6	7797.9	7780.1	7774.1	7750.5	7710.3	7701.5	7680.7	7682.2	7694.0
5°	7836.5	7858.7	7849.9	7781.6	7700.0	7585.7	7467.0	7366.1	7299.3	7294.9	7290.4
7.5°	7967.1	7982.0	7912.2	7717.8	7489.3	7225.2	6975.8	6757.7	6625.6	6593.0	6585.6
10°	8171.9	8168.9	7977.5	7585.7	7130.2	6658.2	6257.7	5954.9	5778.3	5726.4	5713.0
12.5°	8400.4	8366.2	7999.8	7345.3	6622.7	5968.2	5460.7	5123.9	4939.9	4880.6	4865.8
15°	8636.3	8551.7	7944.8	6986.2	5999.4	5224.9	4692.1	4380.5	4281.0	4248.4	4242.5
17.5°	8855.9	8692.7	7787.6	6499.5	5288.7	4484.4	4068.9	3944.2	3967.9	4011.0	4012.5
20°	9071.1	8787.7	7535.3	5885.1	4539.2	3874.5	3733.5	3825.5	3938.3	4025.9	4037.7
22.5°	9283.3	8854.5	7210.3	5175.9	3868.5	3531.7	3631.1	3798.8	3927.9	4022.9	4039.2
25°	9461.4	8870.8	6762.2	4419.1	3402.6	3402.6	3582.2	3740.9	3868.5	3962.1	3978.4
27.5°	9526.7	8761.0	6130.0	3718.6	3168.1	3343.2	3513.9	3646.0	3754.3	3853.7	3871.5
30°	9551.9	8557.7	5399.9	3156.3	3071.7	3279.4	3421.9	3534.7	3637.0	3730.6	3746.9
32.5°	9556.4	8312.9	4625.3	2837.2	3004.9	3212.6	3307.6	3407.0	3516.9	3553.9	3559.9
35°	9584.5	8023.5	3809.2	2674.0	2942.6	3150.3	3226.0	3297.2	3119.2	3132.5	3144.4
37.5°	9666.1	7737.1	3126.6	2582.0	2902.5	3117.7	3208.2	2950.0	2810.5	2777.9	2773.4
40°	9819.0	7431.4	2620.5	2507.8	2887.7	3134.0	3093.9	2754.1	2513.7	2334.2	2307.4
42.5°	10031.2	7101.9	2297.1	2458.8	2898.0	3212.6	2935.1	2565.7	2166.5	2050.8	2035.9
45°	10270.1	6756.2	2122.0	2424.7	2933.7	3273.5	2902.5	2314.9	2004.8	1917.2	1909.8
47.5°	10501.6	6333.3	2031.4	2409.8	2982.6	3224.6	2764.6	2237.8	1927.6	1881.6	1886.0
50°	10767.2	5951.9	1976.6	2393.5	3025.7	3193.3	2608.7	2197.7	1897.9	1954.3	2013.6
52.5°	10991.2	5557.2	1927.6	2360.9	3042.0	3138.5	2568.6	2205.1	1897.9	2006.3	2062.6
55°	11256.9	5259.0	1871.2	2292.6	3010.9	2982.6	2540.4	2249.6	1920.2	1851.9	1857.9
57.5°	11599.7	5161.1	1808.9	2185.8	2907.0	2755.6	2527.1	2292.6	1906.8	1863.7	1878.7
60°	12074.5	5264.9	1783.6	2046.3	2745.2	2577.5	2528.6	2270.4	1813.4	1739.1	1740.6
62.5°	12527.1	5380.6	1782.1	1958.8	2546.4	2418.8	2494.4	2197.7	1765.8	1722.8	1739.1
65°	12675.5	5263.4	1711.0	1860.9	2322.3	2228.8	2432.1	2120.5	1730.3	1665.0	1662.0
67.5°	12476.7	4899.8	1567.0	1702.0	2065.6	2007.8	2350.5	2028.5	1673.8	1620.4	1611.5
70°	11886.1	4088.2	1388.9	1492.8	1773.3	1758.4	2221.4	1921.7	1598.2	1552.1	1513.6
72.5°	10296.8	2912.9	1170.8	1242.0	1443.8	1491.3	2043.3	1782.1	1491.3	1391.9	1332.6
75°	8456.8	2156.1	961.5	976.4	1096.6	1225.7	1798.5	1618.9	1365.2	1196.0	1150.0
77.5°	5178.8	1319.2	765.7	771.6	786.5	977.9	1481.0	1436.4	1205.0	997.2	964.5
80°	1676.8	719.7	553.5	581.7	537.1	716.7	1145.6	1222.7	1034.3	833.9	798.3
82.5°	638.1	419.9	373.9	393.2	372.4	480.8	835.4	979.3	847.3	685.5	557.9
85°	308.6	237.5	221.1	247.8	230.0	246.3	534.2	721.2	642.5	446.7	415.5
87.5°	109.8	105.4	84.6	114.3	97.9	87.6	163.2	363.6	424.4	307.1	274.5
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)