

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: P383151

Luminaire Tested: **GLEON-SA4D-735-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383151  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA4D-735-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29163.9 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

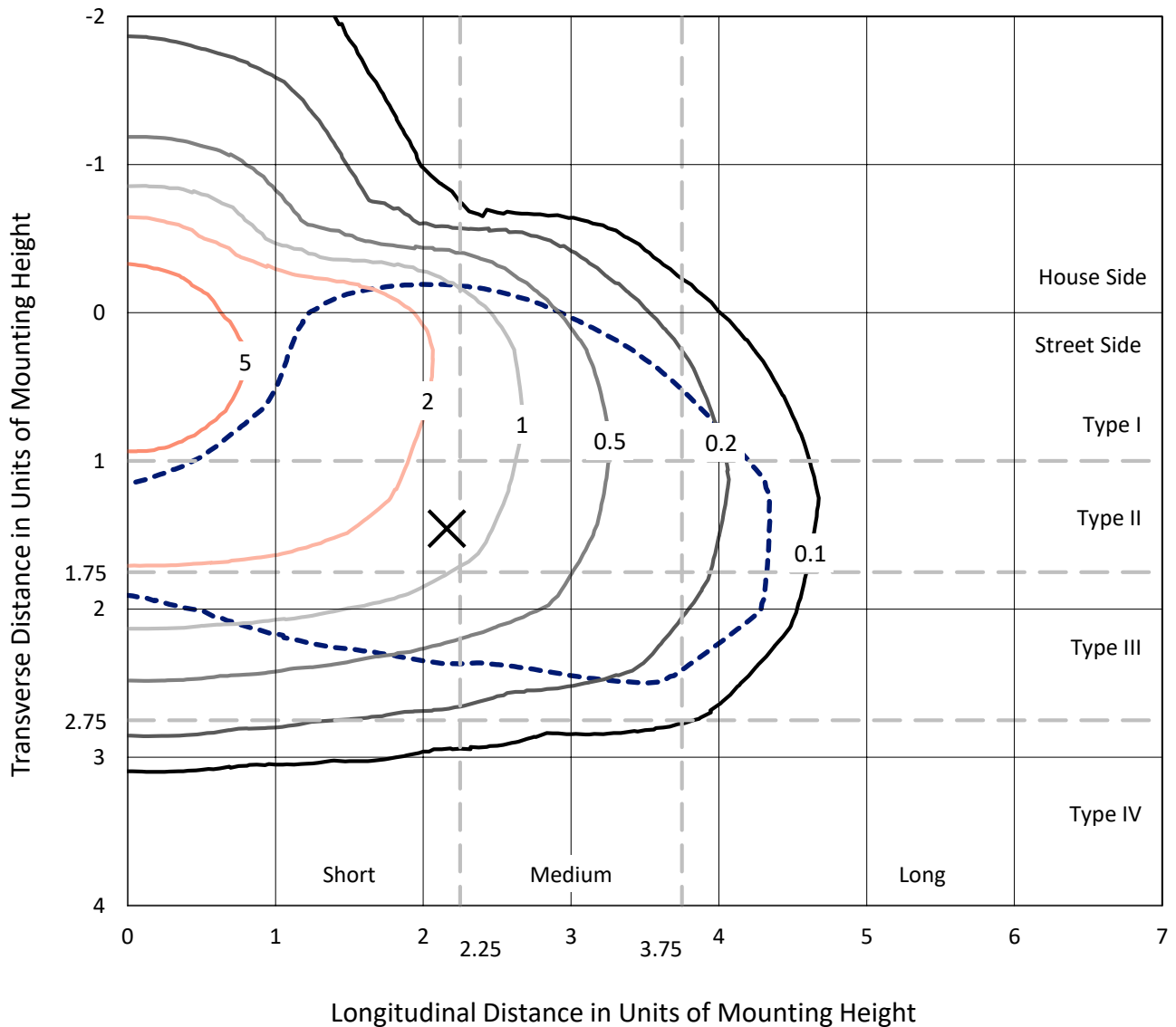
Input Watts (W): 258  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

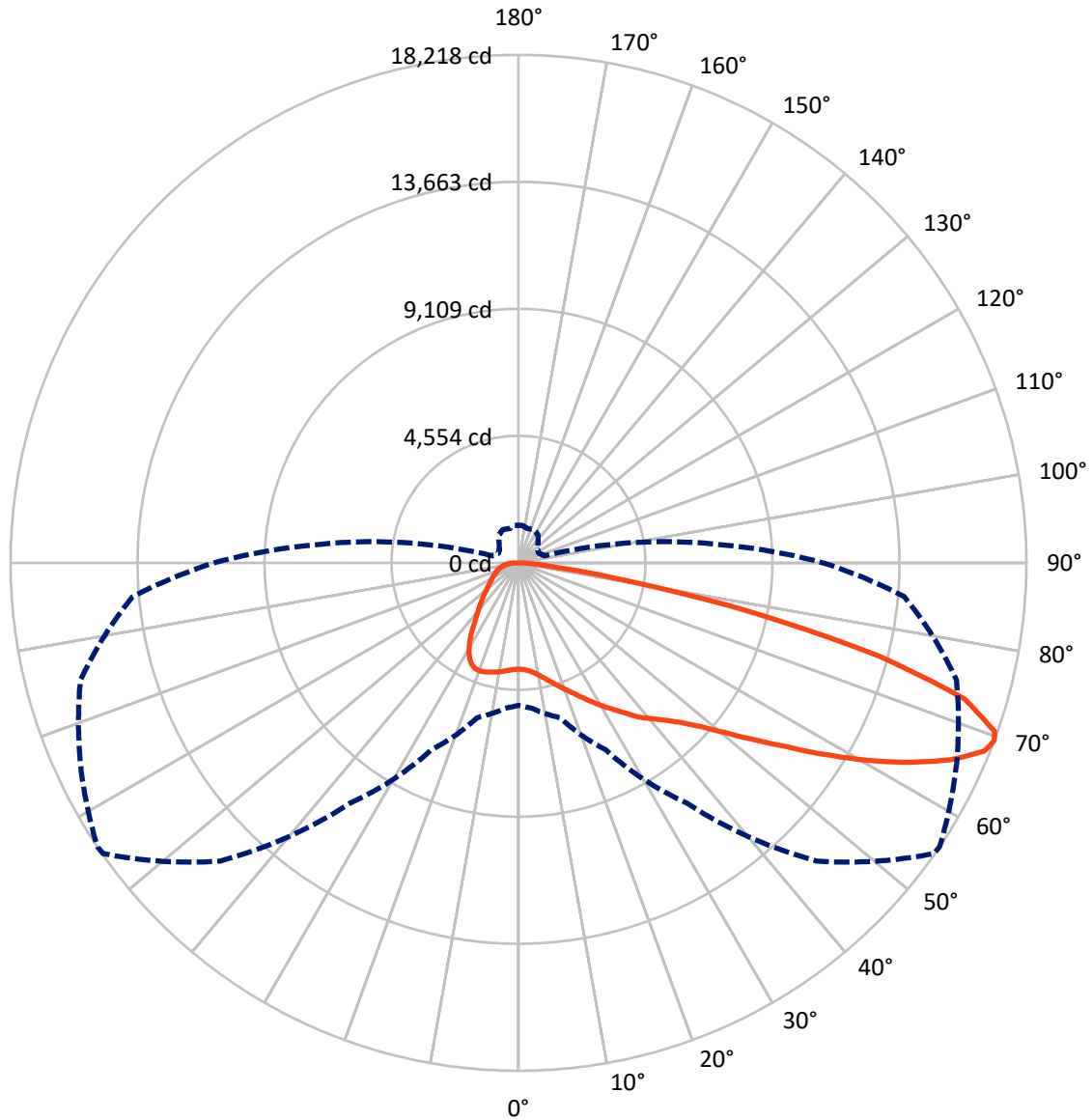
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6494.8	0.0	6494.8
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	22669.2	0.0	22669.2
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	29163.9	0.0	29163.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	374.5	1.3
10°-20°	1204.2	4.1
20°-30°	2102.0	7.2
30°-40°	3019.4	10.4
40°-50°	4178.7	14.3
50°-60°	6122.4	21.0
60°-70°	7464.4	25.6
70°-80°	4126.8	14.2
80°-90°	571.6	2.0
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°	29163.9	100.0
0°-180°	29163.9	100.0

**Coefficient of Utilization**

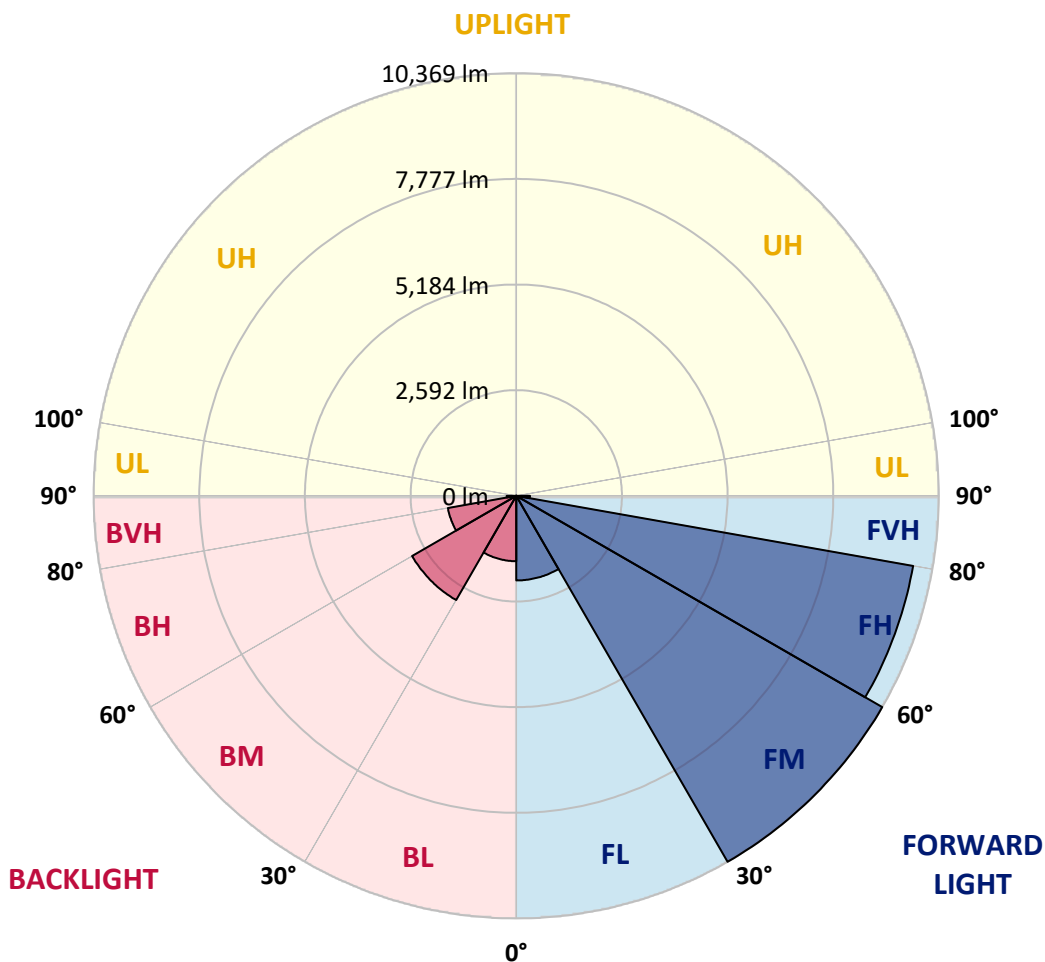


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2075.6	7.1			
FM (30°-60°)	10368.9	35.6			
FH (60°-80°)	9888.0	33.9			G4/12000
FVH (80°-90°)	336.7	1.2			G3/500
BL (0°-30°)	1605.0	5.5	B3/2500		
BM (30°-60°)	2951.7	10.1	B3/5000		
BH (60°-80°)	1703.1	5.8	B3/2500		G3/2500
BVH (80°-90°)	234.9	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7
2.5°	3836.9	3840.9	3837.9	3845.9	3836.9	3842.9	3837.9	3837.9	3834.8	3825.8	3815.8
5°	3897.1	3905.1	3900.1	3908.2	3897.1	3899.2	3890.1	3890.1	3881.1	3862.0	3841.9
7.5°	3991.6	4000.6	3996.6	4004.6	3989.5	3989.5	3977.5	3976.5	3958.4	3927.3	3904.2
10°	4104.1	4116.1	4112.1	4124.2	4112.1	4116.1	4104.1	4104.1	4080.0	4035.7	4006.7
12.5°	4267.9	4283.0	4271.9	4270.9	4265.8	4273.9	4263.9	4261.8	4239.8	4179.5	4139.2
15°	4486.9	4503.0	4479.8	4477.9	4449.7	4446.7	4446.7	4443.7	4429.6	4357.3	4291.0
17.5°	4739.1	4744.1	4724.0	4691.8	4655.7	4632.6	4629.5	4637.6	4637.6	4553.2	4447.7
20°	4986.2	4995.2	4979.2	4943.0	4896.8	4862.7	4838.6	4854.6	4853.5	4753.1	4603.4
22.5°	5255.4	5276.6	5252.4	5206.2	5152.0	5113.8	5071.6	5085.7	5086.7	4963.1	4756.1
25°	5604.1	5585.0	5569.9	5504.6	5427.3	5388.1	5348.9	5362.9	5358.9	5189.2	4913.9
27.5°	5912.5	5916.5	5896.4	5827.1	5737.7	5651.3	5649.3	5658.3	5643.3	5424.2	5062.6
30°	6271.2	6273.2	6245.1	6182.8	6085.3	5973.8	5947.7	5962.7	5930.6	5647.3	5219.3
32.5°	6627.9	6637.9	6606.7	6531.4	6453.0	6317.4	6265.1	6275.2	6194.8	5875.4	5381.1
35°	6940.3	6954.4	6944.3	6894.1	6808.7	6692.1	6629.8	6623.9	6524.4	6154.6	5595.1
37.5°	7258.8	7271.8	7260.8	7218.6	7184.5	7060.9	7027.7	7027.7	6854.9	6440.0	5867.4
40°	7586.3	7606.4	7593.3	7535.1	7505.9	7449.7	7370.3	7351.2	7164.3	6782.6	6311.4
42.5°	7890.8	7916.9	7969.1	7934.9	7875.7	7883.7	7723.9	7713.9	7577.3	7288.9	6869.0
45°	8322.7	8360.9	8449.3	8423.2	8411.1	8367.0	8177.0	8168.0	8115.7	7970.1	7561.2
47.5°	8793.9	8846.2	9005.9	9011.0	9140.5	9057.2	8798.9	8767.8	8779.8	8785.9	8406.1
50°	9228.0	9285.2	9547.4	9671.0	9976.4	9994.5	9581.6	9553.5	9600.7	9739.3	9390.7
52.5°	9574.5	9646.9	9974.5	10356.2	10879.6	11028.3	10545.1	10524.0	10559.2	10798.3	10503.9
55°	9828.8	9907.1	10263.8	10959.0	11794.9	12057.1	11654.2	11634.2	11656.3	11960.7	11714.5
57.5°	9888.0	9907.1	10424.5	11364.9	12567.5	13197.4	13011.6	12971.4	12862.9	13128.1	13050.8
60°	9609.8	9686.0	10291.9	11507.6	13165.3	14321.7	14430.1	14379.9	14075.5	14292.5	14230.2
62.5°	9045.1	9181.7	9796.6	11290.5	13399.4	15239.9	15821.7	15761.4	15237.0	15377.6	15078.2
65°	8122.8	8181.1	8827.1	10542.0	13102.0	15827.6	17062.4	17032.3	16372.2	16152.2	15234.9
67.5°	6473.1	6582.7	7131.2	8977.8	11885.3	15758.3	18021.9	18018.9	17113.6	16439.5	14679.3
69°	5113.8	5227.4	5749.8	7395.5	10517.0	15124.4	18182.6	18217.8	17322.6	16264.7	13885.6
70°	4077.0	4208.5	4567.3	6229.0	9302.3	14288.5	18049.0	18112.4	17282.4	15976.4	13153.3
72.5°	1735.1	1841.6	2096.7	3211.0	5669.4	10669.7	16502.8	16742.0	16351.1	14622.0	10870.6
75°	757.5	790.7	906.2	1309.1	2516.8	5807.0	12928.2	13370.2	13981.0	12359.5	8097.7
77.5°	554.6	568.6	632.0	768.6	1129.2	2193.2	8313.7	8570.9	10083.0	8993.9	4967.1
80°	429.0	439.0	488.3	564.6	737.4	887.1	3791.7	4012.6	5669.4	4619.5	2068.6
82.5°	341.6	348.6	382.8	415.9	509.4	537.5	1258.9	1396.5	2092.7	1275.9	547.6
85°	317.5	325.5	337.6	303.4	326.5	315.4	544.5	569.6	632.0	501.4	229.1
87.5°	143.6	169.8	334.5	236.1	173.8	138.6	223.0	233.1	262.2	263.3	101.4
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°	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7	3812.7
2.5°	3821.8	3818.8	3823.8	3811.7	3826.8	3825.8	3820.7	3822.8	3832.9	3831.8	3832.9
5°	3844.9	3842.9	3848.9	3839.8	3858.0	3864.0	3865.0	3874.0	3885.1	3888.1	3888.1
7.5°	3903.2	3903.2	3906.2	3894.1	3906.2	3905.1	3900.1	3909.2	3920.2	3921.3	3920.2
10°	4003.6	4004.6	3999.6	3968.5	3958.4	3931.3	3906.2	3907.2	3921.3	3932.3	3935.3
12.5°	4130.2	4126.2	4104.1	4046.8	4004.6	3949.4	3923.3	3922.3	3936.3	3945.4	3948.4
15°	4274.9	4263.9	4206.6	4113.2	4038.8	3984.5	3942.3	3932.3	3924.2	3914.2	3915.2
17.5°	4411.5	4386.4	4291.0	4161.4	4083.0	4010.7	3929.3	3864.0	3818.8	3792.6	3784.6
20°	4550.1	4501.0	4363.3	4206.6	4107.1	3975.5	3818.8	3686.1	3603.8	3565.6	3558.6
22.5°	4676.7	4597.4	4430.6	4253.8	4088.0	3857.0	3610.8	3417.9	3303.4	3252.1	3256.1
25°	4800.4	4689.9	4501.0	4287.0	3991.6	3647.9	3321.4	3084.4	2951.7	2894.5	2892.5
27.5°	4908.9	4783.3	4577.3	4259.9	3811.7	3350.6	2978.9	2747.8	2637.3	2588.0	2580.0
30°	5033.4	4900.8	4678.8	4156.4	3548.5	3007.0	2644.3	2481.5	2403.2	2353.9	2344.9
32.5°	5185.2	5060.5	4762.2	3968.5	3212.0	2648.3	2383.1	2269.5	2198.3	2142.9	2133.0
35°	5406.1	5271.5	4783.3	3699.2	2842.2	2365.0	2191.2	2074.6	1978.2	1906.9	1899.8
37.5°	5683.5	5535.8	4735.1	3350.6	2483.6	2181.1	2031.4	1887.8	1762.2	1661.7	1645.7
40°	6083.3	5860.3	4601.4	2948.7	2219.3	2039.5	1875.8	1712.0	1556.2	1438.7	1415.6
42.5°	6563.6	6241.1	4396.4	2548.9	2025.5	1895.8	1721.0	1518.0	1369.4	1286.0	1273.9
45°	7174.4	6636.9	4112.1	2199.2	1834.5	1752.1	1554.2	1367.3	1274.9	1213.6	1203.6
47.5°	7871.7	7081.0	3813.8	1914.9	1672.8	1617.5	1420.6	1300.1	1226.8	1178.5	1169.5
50°	8728.6	7582.3	3497.3	1681.8	1510.0	1455.8	1357.4	1262.9	1204.6	1167.4	1158.4
52.5°	9695.2	8148.0	3269.2	1497.9	1375.4	1336.2	1324.2	1242.8	1195.5	1167.4	1158.4
55°	10736.0	8723.6	3023.1	1343.3	1258.9	1269.9	1302.0	1244.8	1212.7	1178.5	1165.5
57.5°	11777.8	9318.4	2748.8	1212.7	1166.4	1220.7	1287.0	1248.8	1221.7	1188.6	1176.5
60°	12601.7	9695.2	2323.8	1103.1	1093.1	1166.4	1250.8	1218.7	1183.5	1184.6	1182.5
62.5°	12986.4	9675.1	1854.6	1005.7	1019.8	1093.1	1192.6	1171.4	1142.4	1181.5	1184.6
65°	12770.5	9192.8	1443.7	917.3	941.4	1016.7	1132.3	1148.3	1158.4	1233.7	1243.8
67.5°	11864.2	8254.4	1118.2	839.9	870.1	964.5	1138.3	1250.8	1263.9	1343.3	1342.3
69°	10926.9	7374.3	971.5	799.7	834.9	977.6	1216.7	1316.1	1266.9	1351.3	1339.2
70°	10141.2	6678.1	893.2	772.6	818.8	1000.7	1268.9	1315.2	1251.8	1324.2	1304.1
72.5°	7810.4	4804.4	757.5	722.3	764.5	957.4	1284.0	1286.0	1216.7	1230.8	1196.6
75°	5357.0	3036.1	661.1	654.0	682.2	863.0	1235.8	1228.7	1125.2	1105.2	1077.1
77.5°	2953.8	1542.2	561.6	588.7	607.8	764.5	1123.3	1113.2	1027.8	985.6	975.5
80°	1139.3	675.2	474.3	523.4	535.5	662.1	984.6	975.5	904.3	849.9	834.9
82.5°	430.0	353.6	391.8	453.1	449.1	546.5	833.9	828.9	759.5	680.1	656.1
85°	198.9	212.0	310.5	373.7	344.6	404.9	667.1	676.1	591.7	497.4	497.4
87.5°	84.4	118.6	220.0	282.4	232.0	273.3	489.2	467.2	429.0	297.3	279.3
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)