

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: P383679

Luminaire Tested: **GLEON-SA9C-735-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383679
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9C-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57805.3 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

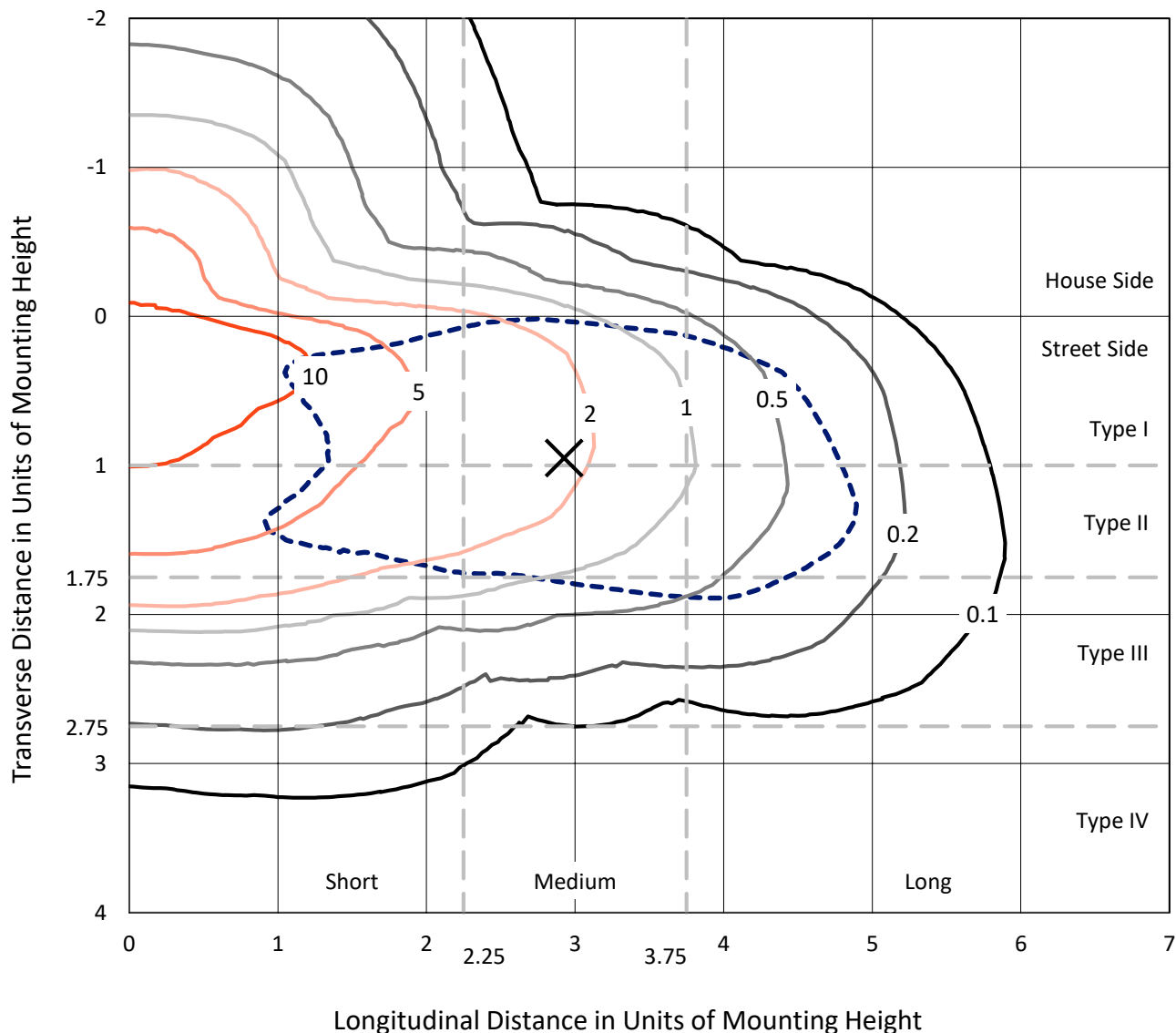
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

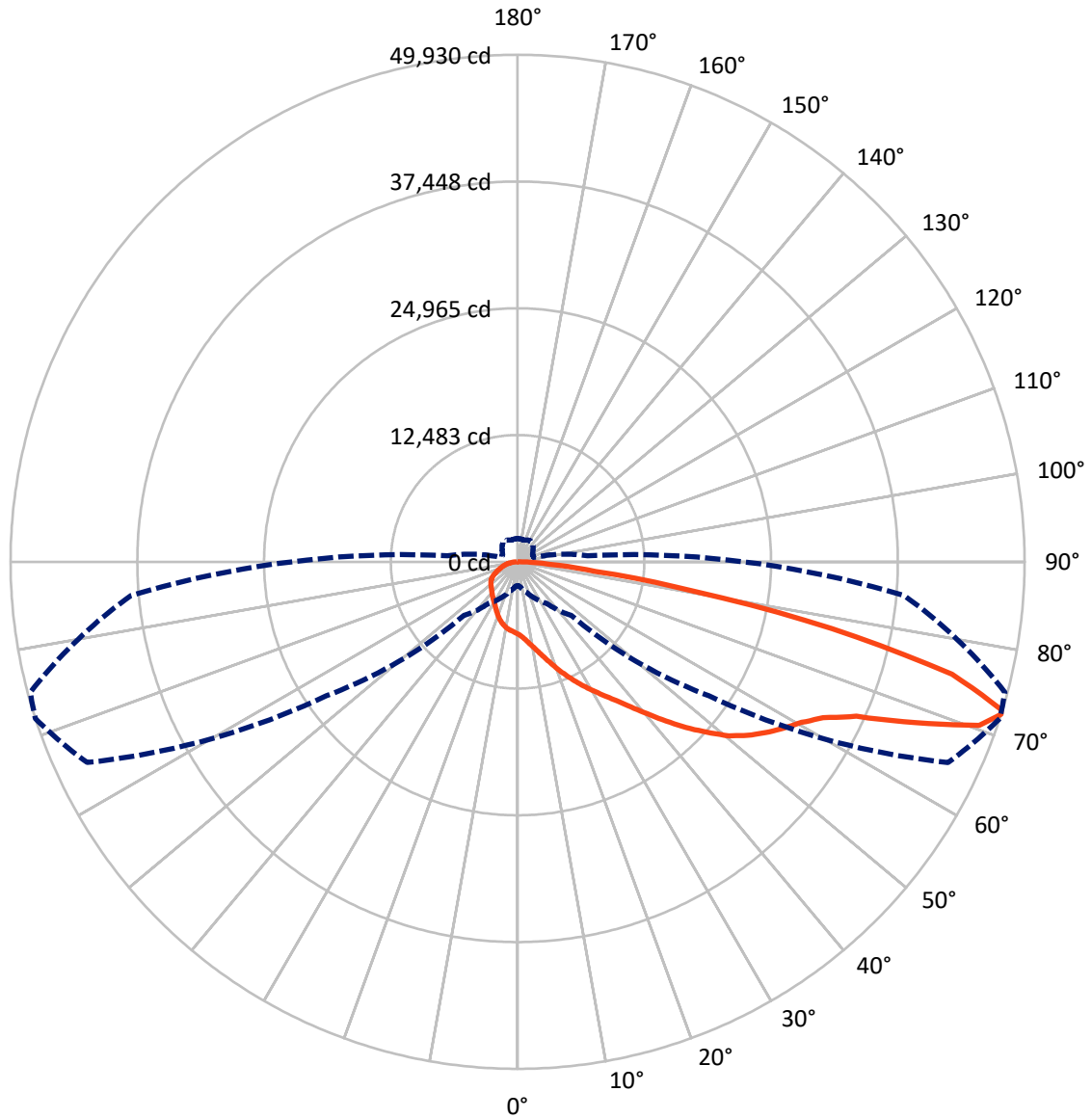
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10723.3	0.0	10723.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	47082.0	0.0	47082.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	57805.3	0.0	57805.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	712.6	1.2
10°-20°	2302.8	4.0
20°-30°	4035.2	7.0
30°-40°	5982.9	10.4
40°-50°	8750.5	15.1
50°-60°	12040.6	20.8
60°-70°	13404.8	23.2
70°-80°	9083.1	15.7
80°-90°	1492.9	2.6
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°	57805.3	100.0
0°-180°	57805.3	100.0

Coefficient of Utilization

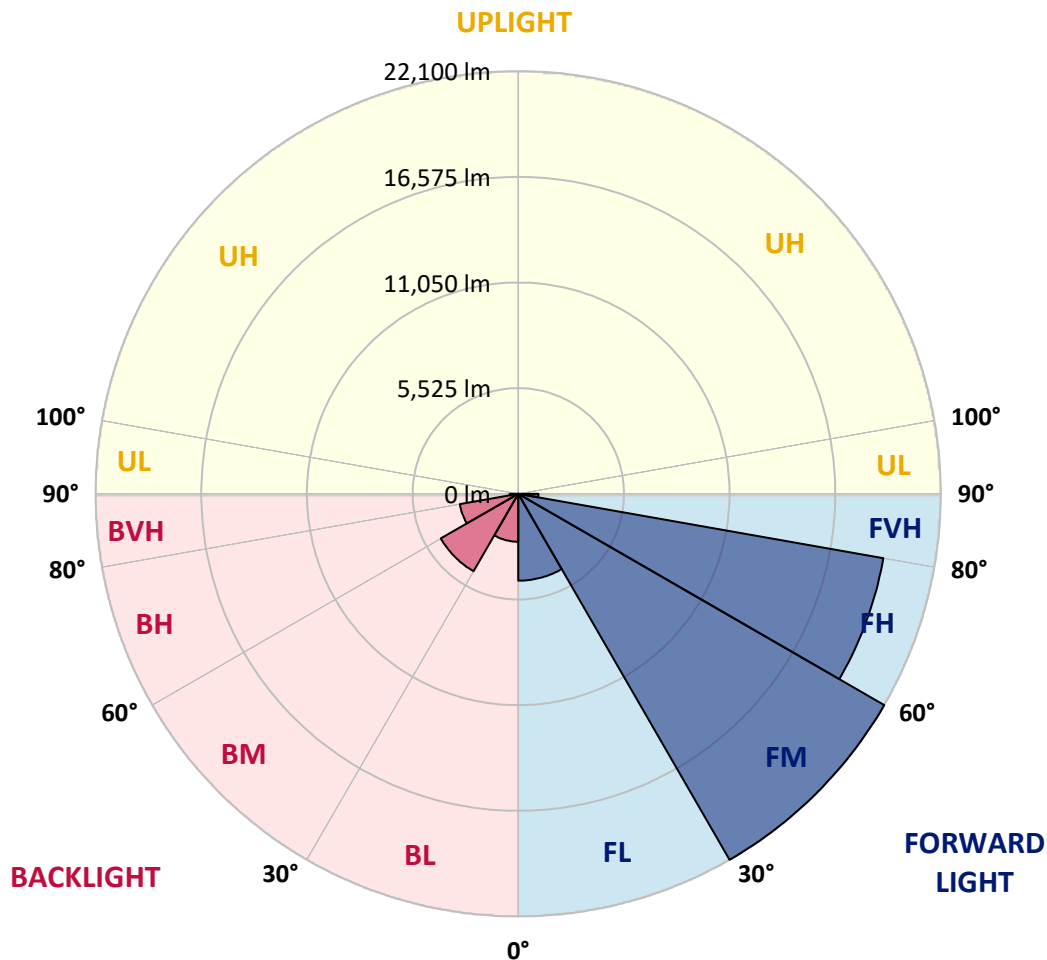


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4543.8	7.9			
FM (30°-60°)	22099.7	38.2			
FH (60°-80°)	19385.5	33.5			G5
FVH (80°-90°)	1053.1	1.8			G5
BL (0°-30°)	2506.7	4.3	B4/5000		
BM (30°-60°)	4674.3	8.1	B3/5000		
BH (60°-80°)	3102.4	5.4	B4/5000		G4/5000
BVH (80°-90°)	439.8	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	7111.5	7111.5	7111.5	7111.5	7111.5	7111.5	7111.5	7111.5	7111.5	7111.5	7111.5
2.5°	7855.9	7844.0	7802.2	7802.2	7722.6	7654.9	7527.6	7441.9	7340.4	7304.6	7185.2
5°	8616.3	8620.3	8568.5	8532.7	8415.2	8272.0	8055.0	7858.0	7660.9	7581.3	7336.5
7.5°	9255.2	9247.2	9233.3	9203.4	9094.0	8946.7	8654.1	8361.5	8070.9	7951.5	7529.5
10°	9665.2	9683.1	9695.1	9709.0	9663.2	9557.7	9281.1	8924.8	8544.6	8381.4	7760.4
12.5°	9872.2	9904.0	9959.7	10055.3	10131.0	10119.0	9918.0	9539.8	9088.0	8883.0	8049.0
15°	9993.6	10035.4	10122.9	10294.2	10507.1	10628.5	10574.8	10232.5	9728.9	9476.1	8401.3
17.5°	10069.3	10103.1	10238.5	10467.3	10783.8	11106.2	11247.5	10961.0	10453.4	10164.8	8805.4
20°	10121.0	10146.9	10316.1	10584.7	10994.8	11508.2	11902.4	11830.7	11251.5	10877.3	9227.4
22.5°	10236.4	10258.3	10419.5	10690.3	11144.0	11806.8	12533.3	12640.8	12093.4	11669.5	9679.2
25°	10558.9	10558.9	10694.3	10883.3	11309.3	12065.6	13066.7	13542.5	12953.3	12459.6	10097.1
27.5°	11173.9	11168.0	11217.7	11283.4	11605.8	12328.3	13542.5	14338.6	13844.9	13305.6	10503.1
30°	11902.4	11942.2	11948.1	11916.3	12067.5	12656.8	13982.3	15178.5	14742.6	14161.4	10919.1
32.5°	12839.8	12865.7	12835.9	12730.3	12708.5	13122.4	14414.2	16058.2	15713.9	15055.1	11299.3
35°	14030.0	13980.3	13886.8	13671.8	13466.8	13745.5	14907.8	16938.0	16804.7	16135.9	11822.7
37.5°	15305.9	15307.8	15192.4	14704.8	14422.1	14541.6	15588.5	17935.2	18124.2	17421.6	12493.5
40°	16328.9	16382.7	16454.3	15813.4	15447.2	15612.4	16454.3	19091.5	19684.7	18946.3	13367.2
42.5°	17043.5	17105.2	17308.2	16906.1	16525.9	16832.5	17473.4	20325.5	21436.2	20705.7	14390.4
45°	17799.8	17833.6	17976.9	17803.8	17561.0	18251.6	18621.8	21603.4	23289.2	22580.6	15534.8
47.5°	18595.9	18631.8	18779.1	18663.6	18536.2	19577.2	19820.0	22807.5	25064.6	24640.6	16756.9
50°	19579.2	19603.1	19742.4	19533.4	19573.2	20576.4	20890.8	23912.2	26925.6	26491.7	17982.9
52.5°	20920.7	20926.7	21119.8	20930.7	20743.5	21308.8	21812.4	24953.2	28384.5	28179.5	19209.0
55°	21971.6	22035.3	22668.2	22628.4	22520.9	21973.6	22582.7	25944.3	29686.3	29783.8	20510.7
57.5°	21300.9	21549.7	22831.5	23735.1	24614.8	23627.6	23623.6	27061.0	30896.4	31358.1	21941.8
60°	18655.6	18994.1	20882.9	22887.2	25639.8	26505.6	25785.1	28424.3	32118.5	32918.6	23735.1
62.5°	13323.5	13880.8	16440.4	19640.9	24234.7	28412.4	30183.8	30587.9	33780.4	34725.9	26065.8
65°	6735.4	7157.4	9303.0	13158.3	19362.2	27166.4	34964.7	35324.9	36668.4	37508.4	29654.4
67.5°	4092.2	4251.4	5298.4	7318.5	11870.5	21161.5	36525.1	43220.7	42257.3	42703.2	34771.6
70°	3015.4	3132.8	3785.6	4860.4	6826.9	12417.9	31736.3	48855.4	48222.5	48172.7	38553.3
72°	2348.6	2434.2	3011.4	3926.9	4991.8	7450.0	23002.6	46775.5	49930.2	49679.4	38207.0
72.5°	2227.2	2302.9	2828.3	3696.1	4717.2	6753.3	20681.8	45372.3	49806.8	49693.4	37759.2
75°	1753.5	1807.2	2093.8	2858.2	3692.1	3831.5	11333.1	35161.7	44184.0	46021.2	33961.5
77.5°	1451.0	1458.9	1610.2	2080.0	2878.1	2708.8	5567.0	24395.8	31638.8	33659.1	24057.5
80°	1182.3	1192.2	1263.9	1458.9	2177.5	2004.3	2643.2	14028.1	17714.2	17736.1	11440.6
82.5°	941.4	943.5	1023.0	1066.8	1564.4	1433.1	1514.7	6586.1	7740.5	7446.0	4112.1
85°	662.8	648.8	999.2	875.7	1023.0	919.5	836.0	2607.4	3200.5	3061.2	1287.8
87.5°	221.0	228.9	443.9	567.2	597.1	521.5	372.2	999.2	1208.1	1198.2	408.0
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°	7111.5	7111.5	7111.5	7111.5	7111.5	7111.5	7111.5	7111.5	7111.5	7111.5	7111.5
2.5°	7147.4	7083.7	6990.1	6886.7	6805.0	6721.5	6659.7	6627.9	6592.1	6562.2	6598.1
5°	7223.0	7103.6	6904.5	6709.5	6566.2	6438.9	6347.3	6299.5	6255.7	6225.8	6229.8
7.5°	7346.5	7153.4	6819.0	6534.3	6335.4	6198.0	6104.4	6072.6	6044.7	6036.8	6046.7
10°	7477.8	7193.1	6705.6	6327.4	6100.4	5987.0	5945.2	5967.1	5987.0	6004.9	6024.8
12.5°	7627.0	7229.0	6540.3	6084.5	5891.5	5847.7	5889.5	5985.0	6054.7	6096.5	6122.3
15°	7822.1	7260.9	6349.2	5841.7	5712.3	5762.1	5903.4	6068.6	6190.0	6267.6	6279.6
17.5°	8001.2	7258.8	6104.4	5596.9	5567.0	5712.3	5925.3	6158.2	6321.4	6430.8	6452.7
20°	8186.3	7205.1	5819.8	5358.1	5419.7	5658.6	5935.3	6215.9	6413.0	6540.3	6570.2
22.5°	8359.5	7111.5	5507.3	5141.1	5296.3	5587.0	5897.4	6182.0	6379.1	6482.6	6514.5
25°	8477.0	6948.3	5190.9	4958.0	5186.9	5499.4	5774.0	6002.9	6150.3	6202.0	6209.9
27.5°	8536.7	6735.4	4892.3	4798.8	5073.4	5356.0	5545.1	5658.6	5700.4	5696.4	5688.5
30°	8544.6	6454.8	4635.6	4669.4	4942.0	5145.1	5234.6	5212.8	5159.0	5067.4	5075.4
32.5°	8518.7	6138.2	4420.6	4546.0	4774.8	4888.3	4892.3	4786.9	4643.5	4498.3	4458.4
35°	8526.7	5827.8	4231.6	4406.7	4571.8	4621.6	4575.9	4420.6	4225.5	4038.4	3998.7
37.5°	8614.3	5557.1	4068.3	4245.4	4347.0	4358.9	4293.2	4130.0	3986.7	3803.6	3787.7
40°	8823.2	5364.0	3913.1	4064.3	4122.0	4128.0	4034.4	3919.0	3930.9	3833.4	3831.5
42.5°	9199.5	5280.4	3775.7	3875.2	3911.1	3923.0	3851.4	3777.7	3881.2	3817.5	3795.6
45°	9685.1	5300.3	3660.2	3690.1	3755.8	3811.5	3767.7	3678.2	3718.0	3441.3	3349.8
47.5°	10246.4	5427.8	3568.8	3530.9	3644.3	3749.9	3682.1	3546.9	3405.6	3130.8	3079.0
50°	10903.2	5624.8	3485.1	3373.7	3522.9	3666.3	3598.6	3405.6	3192.5	3059.2	3041.3
52.5°	11587.9	5865.6	3401.5	3200.5	3369.7	3602.6	3568.8	3373.7	3110.9	2979.6	2955.7
55°	12364.2	6108.4	3296.0	2999.5	3204.5	3572.7	3554.8	3258.2	3049.2	2975.5	2957.7
57.5°	13329.4	6385.1	3156.7	2790.5	3049.2	3465.3	3409.5	3188.6	2985.5	2929.8	2923.8
60°	14587.4	6793.1	2955.7	2567.5	2860.1	3300.0	3288.1	3087.1	2884.1	2844.2	2836.3
62.5°	16474.2	7467.8	2679.0	2344.6	2649.1	3019.4	3128.9	2949.7	2776.6	2774.5	2778.5
65°	19400.0	8483.0	2378.5	2149.5	2436.2	2782.5	2943.8	2808.4	2667.1	2706.9	2712.9
67.5°	22791.6	9324.9	2083.9	1958.5	2219.2	2557.7	2776.6	2667.1	2521.8	2625.3	2627.2
70°	23920.2	8572.5	1825.2	1769.5	1994.4	2340.7	2595.5	2511.8	2364.5	2468.0	2458.1
72°	22260.2	6920.5	1658.0	1626.1	1825.2	2161.6	2434.2	2366.5	2221.3	2290.9	2265.1
72.5°	21736.7	6598.1	1616.1	1590.3	1779.3	2115.7	2392.4	2330.7	2185.4	2245.1	2221.3
75°	19390.1	5730.2	1389.3	1395.3	1552.5	1892.8	2157.6	2137.6	1988.4	1994.4	1986.3
77.5°	14063.9	4201.7	1170.3	1210.2	1321.6	1663.9	1920.7	1908.7	1745.5	1715.7	1709.8
80°	6526.4	2143.6	953.3	971.3	1086.7	1391.3	1638.0	1622.1	1490.8	1452.9	1431.0
82.5°	2235.2	1019.0	716.5	728.5	841.9	1120.6	1421.1	1411.2	1301.7	1228.1	1182.3
85°	798.1	507.5	501.5	489.6	601.1	881.7	1238.0	1184.3	1023.0	871.7	867.8
87.5°	258.8	217.0	258.8	256.7	350.3	597.1	899.7	766.3	742.4	617.1	605.0
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)