

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: P269657

Luminaire Tested: **GLEON-AF-09-LED-E1-T2-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269657
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-T2-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45369.9 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
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: 25 FT

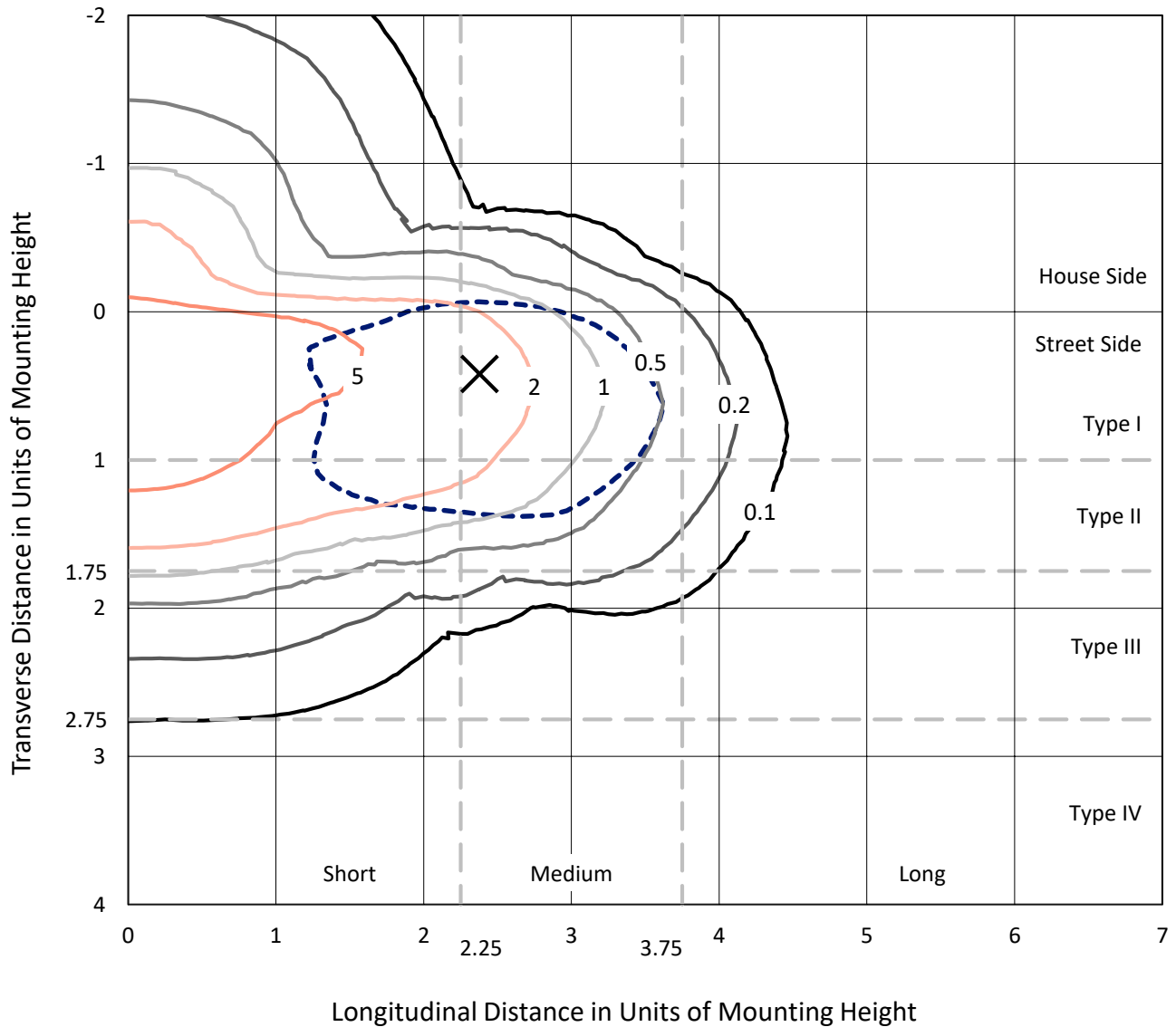


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

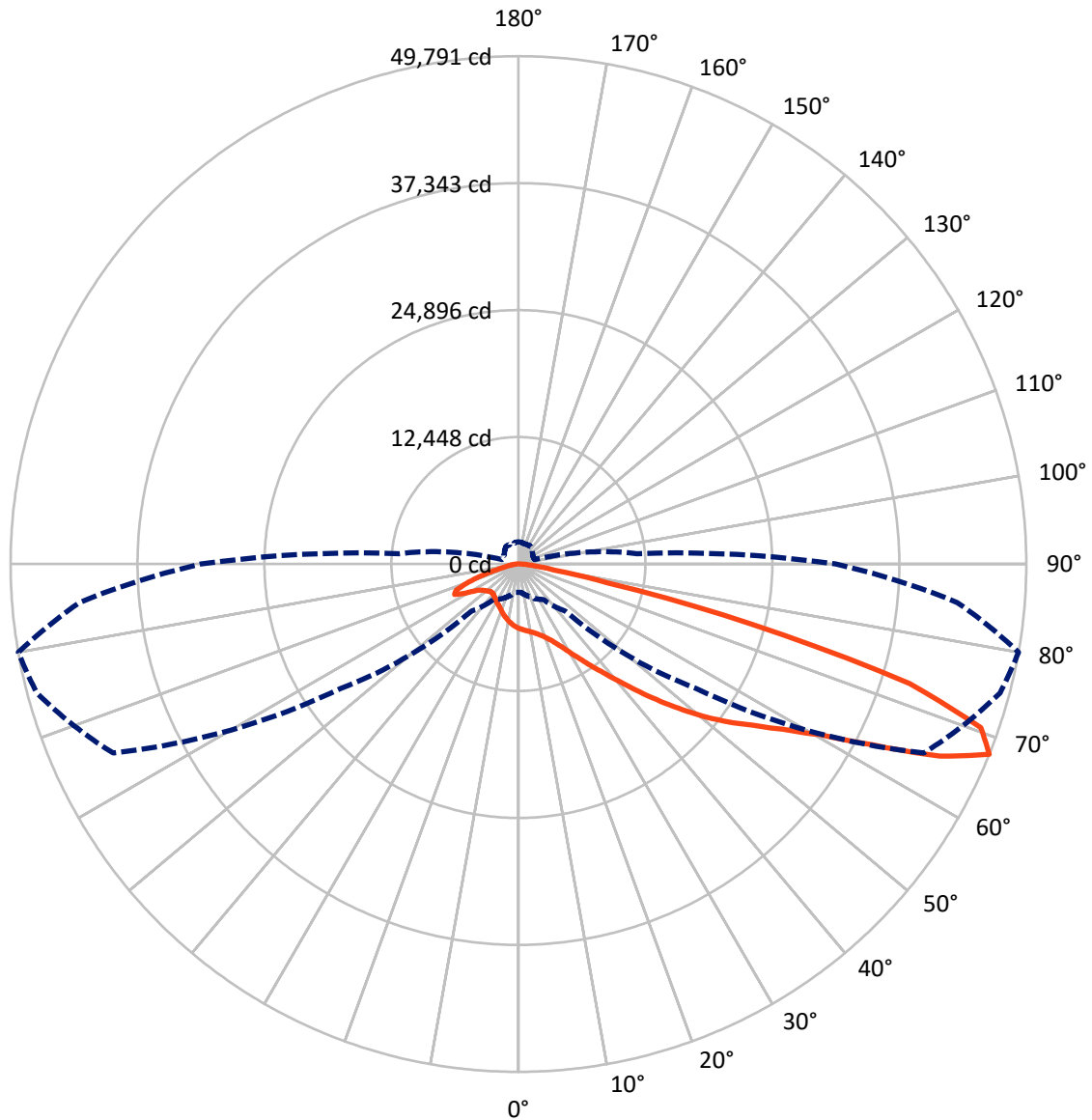


Based on 30 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8355.4	0.0	8355.4
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	37014.5	0.0	37014.5
	% Fixture	81.6	0.0	81.6
Total	Lumens	45369.9	0.0	45369.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	581.4	1.3
10°-20°	1675.0	3.7
20°-30°	2772.4	6.1
30°-40°	4535.0	10.0
40°-50°	7322.2	16.1
50°-60°	10571.1	23.3
60°-70°	11665.9	25.7
70°-80°	5377.2	11.9
80°-90°	869.7	1.9
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°	45369.9	100.0
0°-180°	45369.9	100.0



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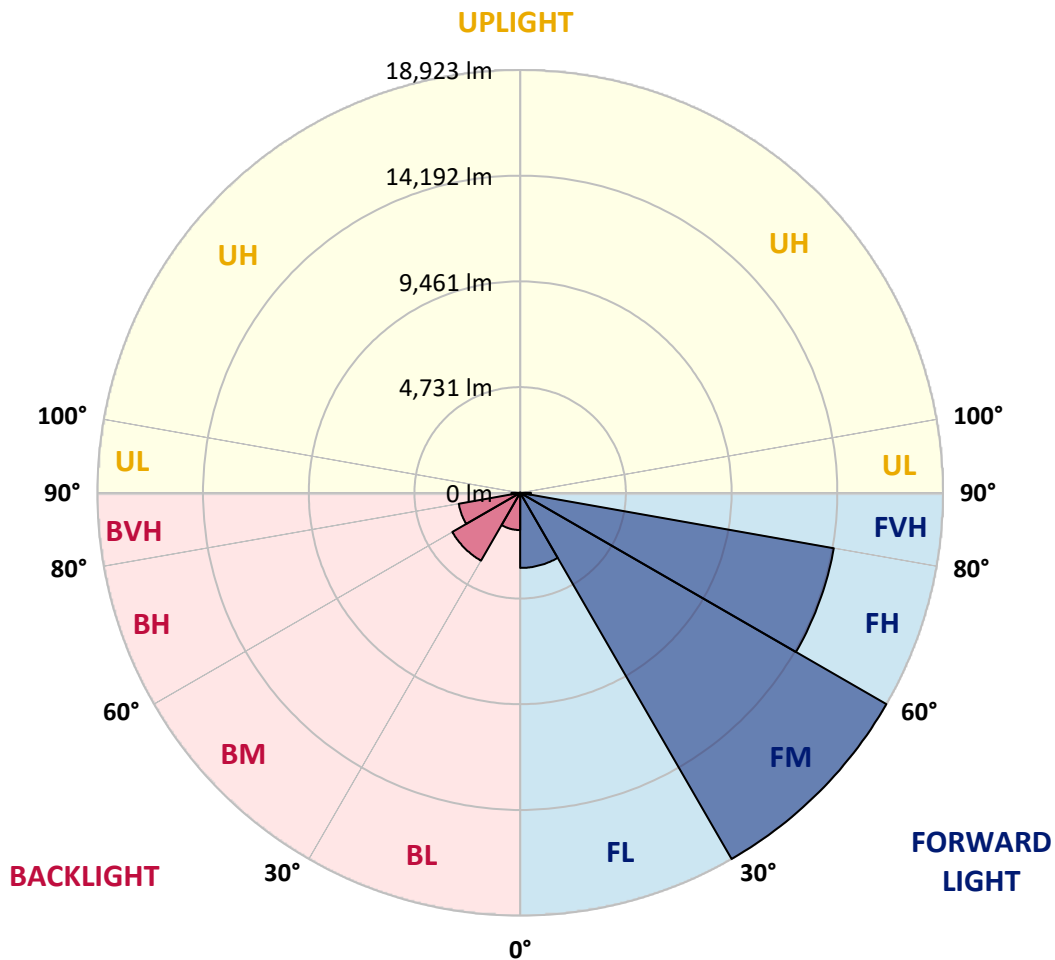
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3361.8	7.4			
FM (30°-60°)	18922.7	41.7			
FH (60°-80°)	14251.9	31.4			G5
FVH (80°-90°)	478.2	1.1			G3/500
BL (0°-30°)	1667.0	3.7	B3/2500		
BM (30°-60°)	3505.6	7.7	B3/5000		
BH (60°-80°)	2791.2	6.2	B4/5000		G4/5000
BVH (80°-90°)	391.6	0.9			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	6303.1	6303.1	6303.1	6303.1	6303.1	6303.1	6303.1	6303.1	6303.1	6303.1	6303.1
2.5°	6895.1	6854.8	6861.7	6850.5	6817.0	6758.8	6696.3	6582.4	6464.1	6401.5	6352.4
5°	7471.4	7460.2	7444.6	7408.9	7323.9	7203.4	7053.8	6852.7	6636.0	6522.1	6412.6
7.5°	7902.5	7895.7	7875.7	7853.3	7770.7	7625.5	7399.9	7113.9	6799.0	6642.6	6472.9
10°	7938.2	7949.5	7965.0	8025.3	8036.4	7958.4	7728.3	7382.0	6968.8	6767.8	6551.1
12.5°	7634.4	7658.9	7719.3	7873.5	8036.4	8132.5	8014.1	7663.5	7167.5	6924.1	6649.4
15°	7232.3	7245.8	7319.5	7531.7	7824.2	8121.3	8233.1	7974.0	7424.5	7125.1	6796.8
17.5°	7060.4	7067.1	7118.4	7259.3	7531.7	7956.1	8355.9	8311.2	7739.3	7375.4	6977.8
20°	6973.4	6989.0	7062.7	7201.2	7373.1	7743.8	8373.7	8675.3	8114.7	7688.1	7205.6
22.5°	7221.2	7214.5	7241.2	7310.5	7455.8	7679.2	8360.3	9050.6	8592.6	8090.0	7502.6
25°	7799.8	7824.2	7777.3	7699.3	7746.2	7902.5	8431.9	9457.0	9191.3	8606.0	7891.3
27.5°	8623.9	8599.4	8530.0	8347.0	8250.9	8317.9	8668.6	9894.8	9935.1	9285.1	8405.0
30°	9445.9	9425.7	9358.7	9135.5	8938.9	8883.0	9128.7	10397.4	10821.8	10100.4	9035.0
32.5°	10299.1	10276.8	10214.3	9990.9	9754.2	9624.6	9783.1	10978.1	11867.1	11074.1	9776.4
35°	11351.2	11308.8	11176.9	10866.4	10634.1	10533.6	10607.4	11708.5	13073.3	12226.7	10676.5
37.5°	12340.6	12405.5	12271.3	11842.5	11541.0	11505.2	11587.9	12599.6	14373.2	13515.4	11710.8
40°	13334.6	13345.7	13225.1	12874.5	12564.0	12505.9	12713.6	13680.7	15907.6	15056.8	12968.2
42.5°	14362.0	14384.4	14181.2	13857.3	13629.4	13640.6	13877.3	14947.2	17667.8	16872.5	14415.6
45°	15579.3	15612.8	15389.5	14965.1	14757.4	15175.1	15076.8	16367.7	19597.6	18936.5	16077.4
47.5°	16852.6	16903.9	16734.0	16336.5	16077.4	16651.4	16276.2	17942.4	21674.8	21150.0	17902.2
50°	17547.1	17620.9	17786.1	17757.1	17701.2	17605.3	17614.1	19631.1	23816.9	23454.9	19778.5
52.5°	17174.2	17171.9	17774.9	18507.6	19289.3	19347.4	19244.7	21411.2	25818.1	25708.8	21545.3
55°	15467.6	15583.7	16497.4	17915.6	20051.0	21384.4	21688.1	23450.6	27783.7	27911.0	23338.9
57.5°	12626.5	12722.5	13955.4	15932.2	19023.5	22595.1	25163.7	26414.5	29981.6	30575.7	25726.6
60°	8563.6	8679.8	9986.4	12360.7	16258.3	21920.5	28471.6	31703.6	32612.7	33964.0	29077.0
62.5°	5032.2	5137.2	6202.6	7797.5	11447.2	18786.8	29923.5	39228.7	36791.8	39076.8	34187.4
65°	3464.4	3535.8	4054.1	4853.6	6578.0	12653.3	28123.1	44424.1	43222.3	45411.3	40113.2
67.5°	2787.5	2778.5	3189.6	3734.6	4234.9	6524.3	21266.0	43836.6	48877.8	49791.3	43188.8
70°	2296.2	2287.3	2566.4	3017.5	3383.8	3674.2	11583.5	36992.8	47725.2	48096.1	40356.6
72.5°	1920.8	1929.7	2108.5	2443.6	2776.3	2767.4	5090.3	26023.5	37544.5	40108.7	32170.6
75°	1621.6	1626.0	1744.5	1981.2	2253.7	2229.1	2760.8	14098.4	21824.4	23609.2	17833.1
77.5°	1380.3	1384.8	1460.7	1592.5	1786.9	1777.9	2014.7	6091.0	9104.1	8992.5	6099.9
80°	1230.7	1230.7	1266.4	1291.0	1398.2	1358.0	1494.3	2926.0	3848.5	3553.7	2434.6
82.5°	964.9	969.5	1188.3	1179.4	1101.1	1049.8	1049.8	1724.3	2039.2	1885.2	1425.0
85°	542.8	540.5	766.2	924.7	969.5	739.3	732.6	964.9	1110.0	978.3	690.2
87.5°	232.3	236.8	355.1	411.0	549.5	460.1	453.5	498.1	565.2	489.1	319.3
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°	6303.1	6303.1	6303.1	6303.1	6303.1	6303.1	6303.1	6303.1	6303.1	6303.1	6303.1
2.5°	6305.5	6247.4	6120.1	5961.4	5818.5	5724.7	5639.7	5517.0	5523.7	5438.8	5376.3
5°	6301.0	6180.3	5885.5	5534.8	5197.6	4954.2	4771.0	4605.7	4565.5	4487.4	4440.4
7.5°	6305.5	6108.8	5613.0	5052.3	4634.7	4326.4	4170.1	4083.1	4062.9	4036.2	4038.3
10°	6321.1	6044.2	5313.7	4601.2	4163.5	3960.2	3922.2	3948.9	3980.3	3989.3	3991.3
12.5°	6356.9	5986.0	4985.4	4199.1	3868.6	3806.1	3870.8	3962.5	4022.7	4051.7	4049.5
15°	6437.3	5941.4	4670.5	3884.2	3705.6	3739.0	3859.7	3989.3	4076.2	4116.6	4118.8
17.5°	6524.3	5876.6	4346.5	3642.9	3585.0	3669.8	3819.5	3971.3	4078.6	4123.2	4132.2
20°	6638.2	5796.1	4007.1	3462.1	3471.1	3567.1	3707.8	3859.7	3978.1	4016.1	4033.8
22.5°	6788.0	5709.1	3710.0	3314.7	3341.4	3415.1	3524.6	3656.5	3759.1	3777.1	3792.6
25°	6989.0	5615.2	3473.2	3180.7	3191.8	3234.3	3308.0	3386.2	3457.5	3437.5	3453.2
27.5°	7259.3	5534.8	3296.8	3057.8	3037.7	3046.6	3084.6	3109.2	3147.1	3091.2	3098.1
30°	7576.3	5447.7	3160.5	2950.7	2894.8	2879.1	2888.1	2901.4	2930.5	2854.5	2843.3
32.5°	7944.9	5342.8	3033.2	2856.8	2778.5	2747.3	2751.8	2787.5	2899.2	2852.3	2827.8
35°	8373.7	5224.5	2899.2	2754.1	2700.5	2655.7	2651.3	2762.9	3095.7	3066.8	3044.4
37.5°	8876.3	5106.0	2765.3	2637.9	2642.4	2593.1	2577.5	2704.8	3133.7	3019.8	3004.2
40°	9515.0	5043.4	2651.3	2515.1	2570.9	2564.1	2533.0	2597.7	2883.6	2675.8	2649.0
42.5°	10305.9	5052.3	2566.4	2383.3	2486.0	2557.5	2508.3	2510.6	2613.3	2457.0	2432.4
45°	11282.0	5157.3	2506.1	2278.3	2389.9	2550.7	2499.4	2463.6	2472.6	2389.9	2376.6
47.5°	12421.0	5374.0	2463.6	2191.1	2298.4	2526.3	2497.2	2450.2	2430.2	2385.4	2374.3
50°	13687.5	5689.0	2432.4	2108.5	2215.7	2486.0	2499.4	2436.8	2414.6	2396.7	2389.9
52.5°	14931.5	6048.6	2385.4	2037.0	2150.9	2436.8	2506.1	2423.4	2398.8	2385.4	2378.8
55°	16318.7	6497.5	2314.0	1976.7	2097.4	2374.3	2506.1	2403.3	2376.6	2378.8	2376.6
57.5°	18192.7	7223.5	2229.1	1925.3	2032.5	2298.4	2463.6	2381.0	2347.5	2349.7	2352.0
60°	21120.9	8503.3	2126.4	1874.0	1952.1	2209.0	2405.7	2331.9	2298.4	2307.2	2309.5
62.5°	25427.2	10381.7	1992.4	1798.0	1867.2	2113.0	2325.2	2269.4	2235.8	2258.2	2258.2
65°	29903.4	12039.1	1827.2	1702.0	1777.9	2008.0	2224.7	2191.1	2157.6	2209.0	2206.7
67.5°	31107.2	11668.4	1661.8	1597.0	1688.6	1891.9	2104.0	2086.1	2068.3	2157.6	2153.1
70°	27634.0	9367.6	1510.0	1489.7	1590.3	1766.7	1974.6	1974.6	1963.3	2030.3	2014.7
72.5°	21053.8	6642.6	1364.7	1375.9	1478.6	1630.6	1833.8	1849.4	1831.6	1865.1	1851.6
75°	11270.8	3801.5	1219.5	1250.8	1340.1	1492.1	1677.5	1693.0	1681.8	1679.7	1686.4
77.5°	3745.8	1858.4	1067.6	1116.9	1194.9	1349.1	1514.5	1538.9	1512.1	1507.6	1505.4
80°	1668.5	1168.2	900.1	964.9	1034.2	1186.0	1342.3	1362.5	1333.4	1373.7	1322.2
82.5°	1072.1	768.4	721.5	792.9	859.9	1023.0	1170.4	1174.9	1148.0	1333.4	1137.0
85°	520.4	475.7	542.8	607.6	665.6	804.2	969.5	971.5	904.7	824.1	795.2
87.5°	259.2	276.9	361.8	419.9	449.0	551.6	705.8	692.5	663.4	603.0	556.2
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)