

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: P193927

Luminaire Tested: **GLEON-AF-09-LED-E1-T2-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193927
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-T2-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46745 lumens
Efficiency: N/A
Efficacy: 81.3 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): 575
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

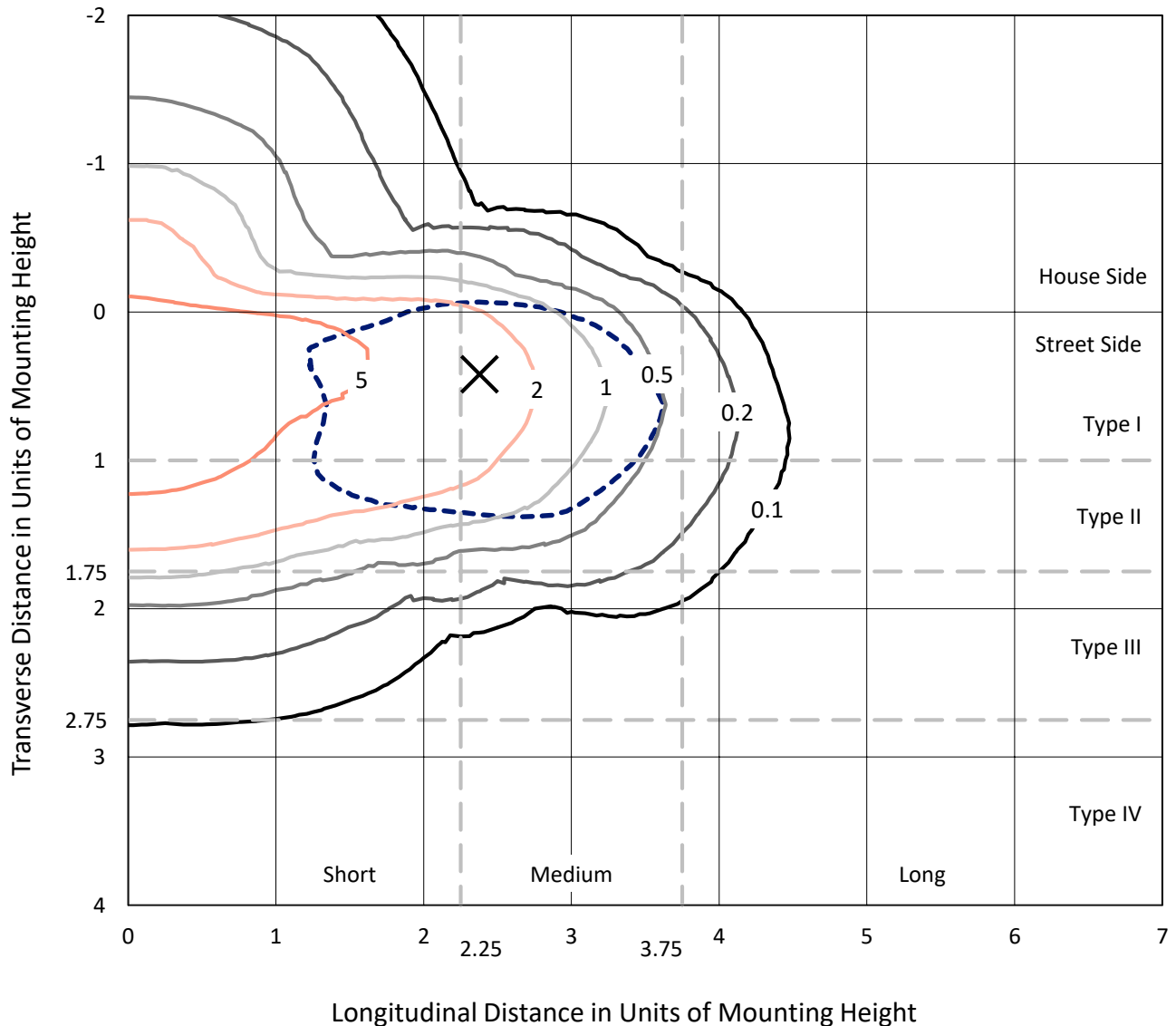


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

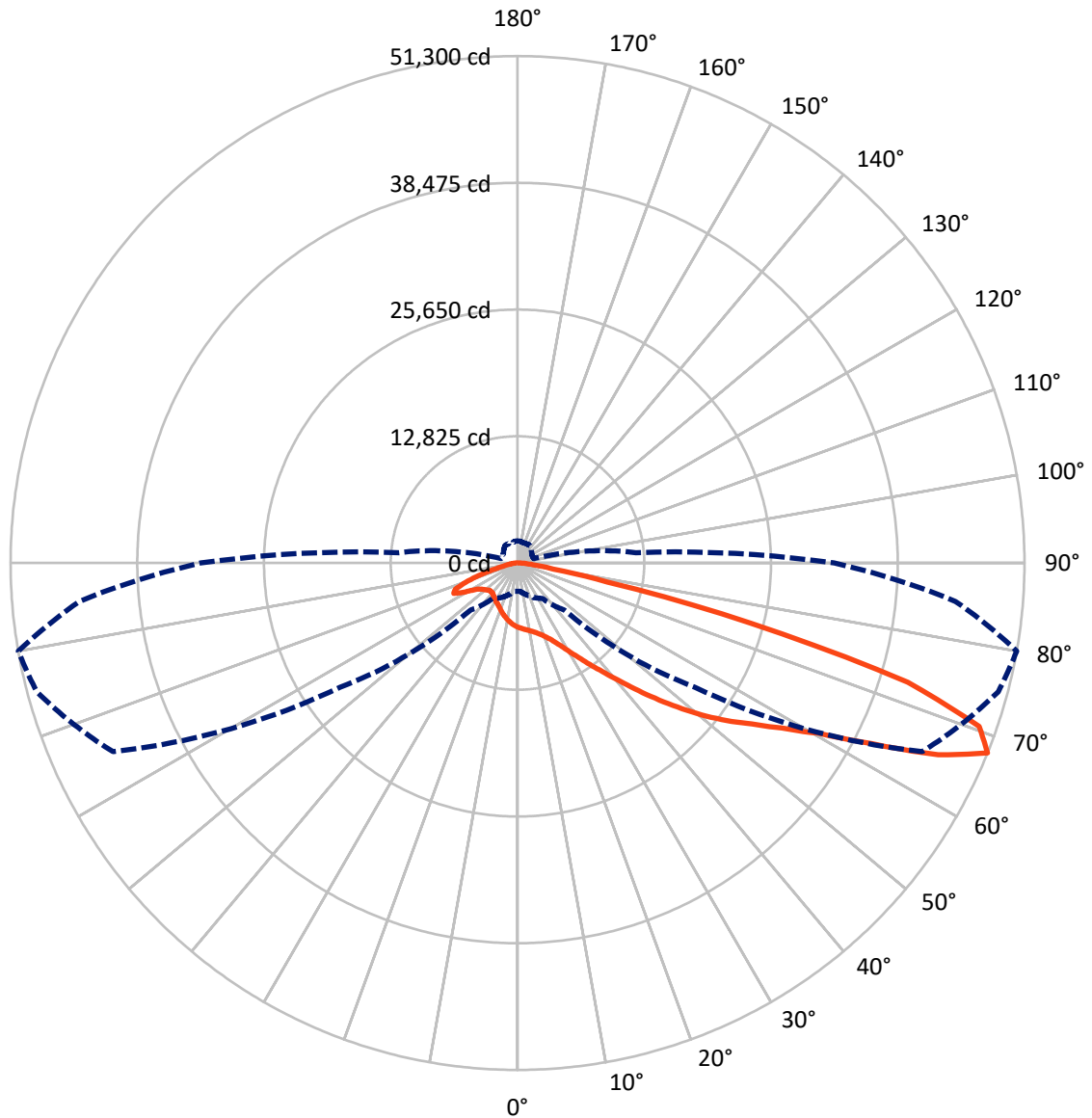


Based on 30 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Medium - Full Cutoff

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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	8608.7	0.0	8608.7
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	38136.3	0.0	38136.3
	% Fixture	81.6	0.0	81.6
Total	Lumens	46745.0	0.0	46745.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.1	1.3
10°-20°	1725.7	3.7
20°-30°	2856.5	6.1
30°-40°	4672.4	10.0
40°-50°	7544.1	16.1
50°-60°	10891.5	23.3
60°-70°	12019.4	25.7
70°-80°	5540.2	11.9
80°-90°	896.1	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°	46745.0	100.0
0°-180°	46745.0	100.0



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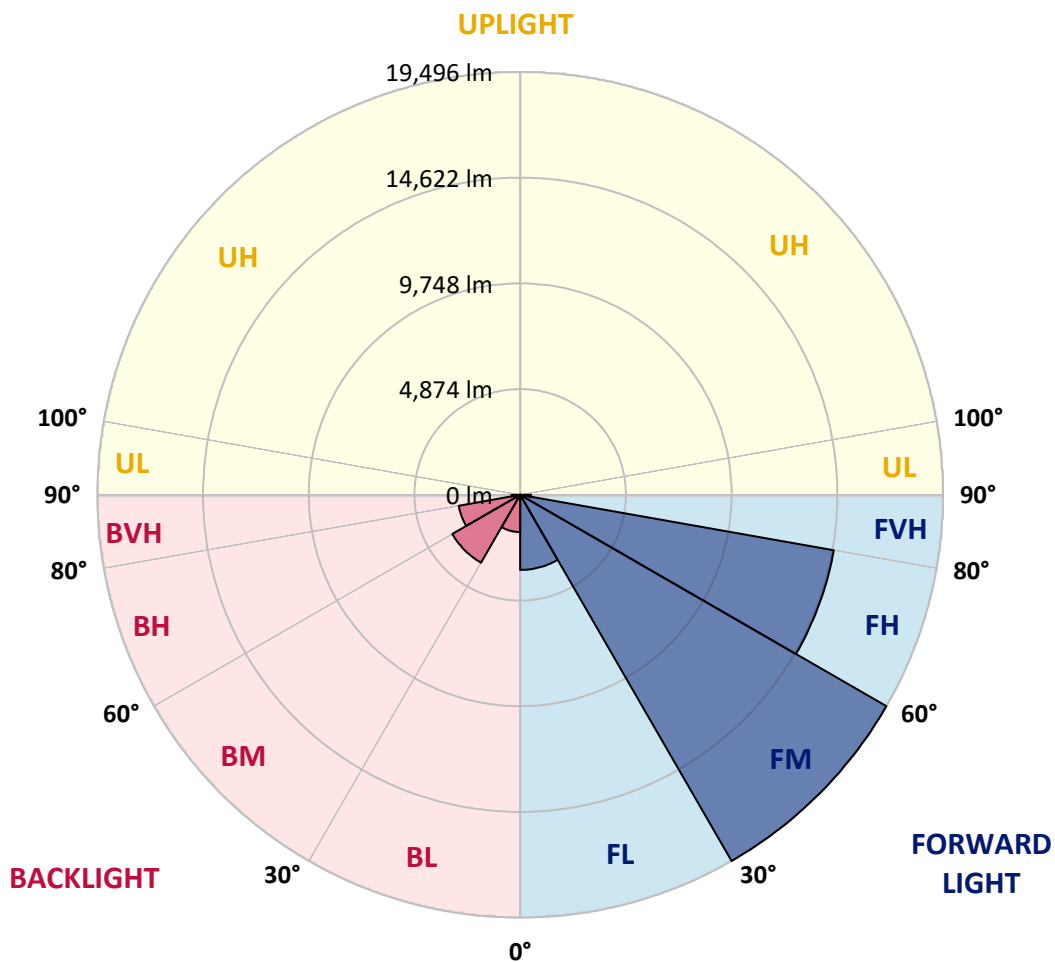
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3463.7	7.4			
FM	(30°-60°)	19496.1	41.7			
FH	(60°-80°)	14683.8	31.4			G5
FVH	(80°-90°)	492.7	1.1			G3/500
BL	(0°-30°)	1717.5	3.7	B3/2500		
BM	(30°-60°)	3611.9	7.7	B3/5000		
BH	(60°-80°)	2875.8	6.2	B4/5000		G4/5000
BVH	(80°-90°)	403.4	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°	6494.2	6494.2	6494.2	6494.2	6494.2	6494.2	6494.2	6494.2	6494.2	6494.2	6494.2
2.5°	7104.1	7062.7	7069.6	7058.1	7023.5	6963.7	6899.3	6781.9	6659.9	6595.5	6544.9
5°	7697.8	7686.3	7670.2	7633.4	7545.9	7421.7	7267.5	7060.4	6837.1	6719.8	6607.0
7.5°	8142.0	8135.1	8114.3	8091.3	8006.2	7856.6	7624.2	7329.6	7005.1	6844.0	6669.1
10°	8178.8	8190.3	8206.4	8268.5	8280.0	8199.5	7962.5	7605.8	7180.0	6972.9	6749.7
12.5°	7865.8	7891.1	7953.3	8112.0	8280.0	8379.0	8257.0	7895.7	7384.8	7134.0	6850.9
15°	7451.6	7465.4	7541.3	7759.9	8061.4	8367.5	8482.6	8215.6	7649.5	7341.1	7002.8
17.5°	7274.4	7281.3	7334.2	7479.2	7759.9	8197.2	8609.1	8563.1	7974.0	7598.9	7189.2
20°	7184.6	7200.7	7276.7	7419.4	7596.6	7978.6	8627.5	8938.2	8360.6	7921.0	7424.0
22.5°	7440.1	7433.2	7460.8	7532.1	7681.7	7911.8	8613.7	9324.8	8853.1	8335.3	7730.0
25°	8036.1	8061.4	8013.1	7932.5	7980.9	8142.0	8687.4	9743.7	9469.8	8866.9	8130.5
27.5°	8885.3	8860.0	8788.6	8599.9	8501.0	8570.0	8931.3	10194.7	10236.1	9566.5	8659.8
30°	9732.2	9711.4	9642.4	9412.3	9209.8	9152.2	9405.4	10712.5	11149.7	10406.4	9308.7
32.5°	10611.2	10588.2	10523.8	10293.7	10049.7	9916.3	10079.6	11310.8	12226.8	11409.8	10072.7
35°	11695.2	11651.4	11515.7	11195.8	10956.4	10852.9	10928.8	12063.4	13469.4	12597.3	11000.2
37.5°	12714.6	12781.4	12643.3	12201.4	11890.8	11853.9	11939.1	12981.6	14808.8	13925.1	12065.7
40°	13738.7	13750.2	13625.9	13264.6	12944.8	12884.9	13098.9	14095.4	16389.8	15513.0	13361.3
42.5°	14797.3	14820.3	14610.9	14277.2	14042.5	14054.0	14297.9	15400.2	18203.2	17383.9	14852.5
45°	16051.5	16086.0	15855.9	15418.6	15204.6	15635.0	15533.7	16863.9	20191.5	19510.3	16564.7
47.5°	17363.2	17416.2	17241.3	16831.6	16564.7	17156.1	16769.5	18486.3	22331.7	21790.9	18444.8
50°	18078.9	18154.9	18325.2	18295.3	18237.7	18138.8	18148.0	20226.0	24538.7	24165.8	20377.9
52.5°	17694.6	17692.3	18313.7	19068.5	19873.9	19933.8	19827.9	22060.2	26600.6	26487.8	22198.2
55°	15936.4	16056.1	16997.3	18458.6	20658.7	22032.5	22345.5	24161.2	28625.7	28756.9	24046.2
57.5°	13009.2	13108.1	14378.5	16415.1	19600.1	23279.8	25926.3	27215.1	30890.2	31502.4	26506.3
60°	8823.1	8942.8	10289.1	12735.3	16751.1	22584.9	29334.5	32664.5	33601.1	34993.4	29958.2
62.5°	5184.8	5293.0	6390.7	8033.8	11794.1	19356.1	30830.4	40417.6	37906.8	40261.1	35223.5
65°	3569.3	3642.9	4176.8	5000.7	6777.3	13036.8	28975.5	45770.4	44532.3	46787.5	41328.9
67.5°	2872.0	2862.8	3286.2	3847.8	4363.2	6722.1	21910.6	45165.1	50359.1	51300.4	44497.7
70°	2365.7	2356.5	2644.2	3109.0	3486.5	3785.6	11934.5	38114.0	49171.7	49553.7	41579.7
72.5°	1979.1	1988.3	2172.4	2517.6	2860.5	2851.3	5244.6	26812.3	38682.4	41324.3	33145.5
75°	1670.7	1675.3	1797.3	2041.2	2322.0	2296.7	2844.4	14525.7	22485.9	24324.6	18373.5
77.5°	1422.2	1426.8	1505.0	1640.8	1841.0	1831.8	2075.8	6275.6	9380.1	9265.0	6284.8
80°	1268.0	1268.0	1304.8	1330.1	1440.6	1399.2	1539.6	3014.7	3965.1	3661.4	2508.4
82.5°	994.2	998.8	1224.3	1215.1	1134.5	1081.6	1081.6	1776.6	2101.1	1942.3	1468.2
85°	559.2	556.9	789.3	952.7	998.8	761.7	754.8	994.2	1143.7	1008.0	711.1
87.5°	239.3	243.9	365.9	423.4	566.1	474.1	467.2	513.2	582.2	504.0	329.1
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°	6494.2	6494.2	6494.2	6494.2	6494.2	6494.2	6494.2	6494.2	6494.2	6494.2	6494.2
2.5°	6496.5	6436.7	6305.5	6142.1	5994.9	5898.2	5810.8	5684.2	5691.1	5603.6	5539.2
5°	6491.9	6367.7	6063.9	5702.6	5355.1	5104.3	4915.6	4745.3	4703.8	4623.3	4575.0
7.5°	6496.5	6294.0	5783.1	5205.5	4775.2	4457.6	4296.5	4206.8	4186.0	4158.4	4160.7
10°	6512.7	6227.3	5474.8	4740.7	4289.6	4080.2	4041.1	4068.7	4100.9	4110.1	4112.4
12.5°	6549.5	6167.5	5136.5	4326.4	3985.8	3921.4	3988.1	4082.5	4144.6	4174.5	4172.2
15°	6632.3	6121.4	4812.0	4001.9	3817.8	3852.4	3976.6	4110.1	4199.9	4241.3	4243.6
17.5°	6722.1	6054.7	4478.3	3753.4	3693.6	3781.0	3935.2	4091.7	4202.2	4248.2	4257.4
20°	6839.4	5971.8	4128.5	3567.0	3576.2	3675.2	3820.1	3976.6	4098.6	4137.7	4156.1
22.5°	6993.6	5882.1	3822.4	3415.1	3442.7	3518.7	3631.4	3767.2	3873.1	3891.5	3907.6
25°	7200.7	5785.4	3578.5	3277.0	3288.5	3332.3	3408.2	3488.8	3562.4	3541.7	3557.8
27.5°	7479.2	5702.6	3396.7	3150.5	3129.8	3139.0	3178.1	3203.4	3242.5	3185.0	3191.9
30°	7806.0	5612.8	3256.3	3040.0	2982.5	2966.4	2975.6	2989.4	3019.3	2941.0	2929.5
32.5°	8185.7	5504.7	3125.2	2943.3	2862.8	2830.6	2835.2	2872.0	2987.1	2938.7	2913.4
35°	8627.5	5382.7	2987.1	2837.5	2782.3	2736.2	2731.6	2846.7	3189.6	3159.7	3136.7
37.5°	9145.3	5260.7	2849.0	2717.8	2722.4	2671.8	2655.7	2786.9	3228.7	3111.3	3095.2
40°	9803.5	5196.3	2731.6	2591.3	2648.8	2641.9	2609.7	2676.4	2971.0	2756.9	2729.3
42.5°	10618.2	5205.5	2644.2	2455.5	2561.3	2635.0	2584.3	2586.6	2692.5	2531.4	2506.1
45°	11623.8	5313.7	2582.0	2347.3	2462.4	2628.1	2575.1	2538.3	2547.5	2462.4	2448.6
47.5°	12797.5	5536.9	2538.3	2257.6	2368.0	2602.8	2572.8	2524.5	2503.8	2457.8	2446.3
50°	14102.3	5861.4	2506.1	2172.4	2282.9	2561.3	2575.1	2510.7	2487.7	2469.3	2462.4
52.5°	15384.1	6231.9	2457.8	2098.8	2216.1	2510.7	2582.0	2496.9	2471.6	2457.8	2450.9
55°	16813.2	6694.5	2384.1	2036.6	2160.9	2446.3	2582.0	2476.2	2448.6	2450.9	2448.6
57.5°	18744.0	7442.4	2296.7	1983.7	2094.2	2368.0	2538.3	2453.2	2418.7	2421.0	2423.3
60°	21761.0	8761.0	2190.8	1930.8	2011.3	2276.0	2478.5	2402.5	2368.0	2377.2	2379.5
62.5°	26197.9	10696.4	2052.8	1852.5	1923.9	2177.0	2395.6	2338.1	2303.6	2326.6	2326.6
65°	30809.7	12404.0	1882.5	1753.6	1831.8	2068.9	2292.1	2257.6	2223.0	2276.0	2273.7
67.5°	32050.1	12021.9	1712.2	1645.4	1739.8	1949.2	2167.8	2149.4	2131.0	2223.0	2218.4
70°	28471.6	9651.6	1555.7	1535.0	1638.5	1820.3	2034.3	2034.3	2022.8	2091.9	2075.8
72.5°	21692.0	6844.0	1406.1	1417.6	1523.5	1679.9	1889.4	1905.5	1887.1	1921.6	1907.8
75°	11612.3	3916.8	1256.5	1288.7	1380.8	1537.3	1728.3	1744.4	1732.9	1730.6	1737.5
77.5°	3859.3	1914.7	1100.0	1150.6	1231.2	1390.0	1560.3	1585.6	1558.0	1553.4	1551.1
80°	1719.1	1203.6	927.4	994.2	1065.5	1222.0	1383.1	1403.8	1373.9	1415.3	1362.4
82.5°	1104.6	791.6	743.3	817.0	886.0	1054.0	1205.9	1210.5	1182.9	1373.9	1171.4
85°	536.2	490.2	559.2	626.0	685.8	828.5	998.8	1001.1	932.0	849.2	819.3
87.5°	266.9	285.4	372.8	432.6	462.6	568.4	727.2	713.4	683.5	621.3	573.0
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)