

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: P192186

Luminaire Tested: **GLEON-AF-08-LED-E1-T2-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192186
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-08-LED-E1-T2-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51355 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 511
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

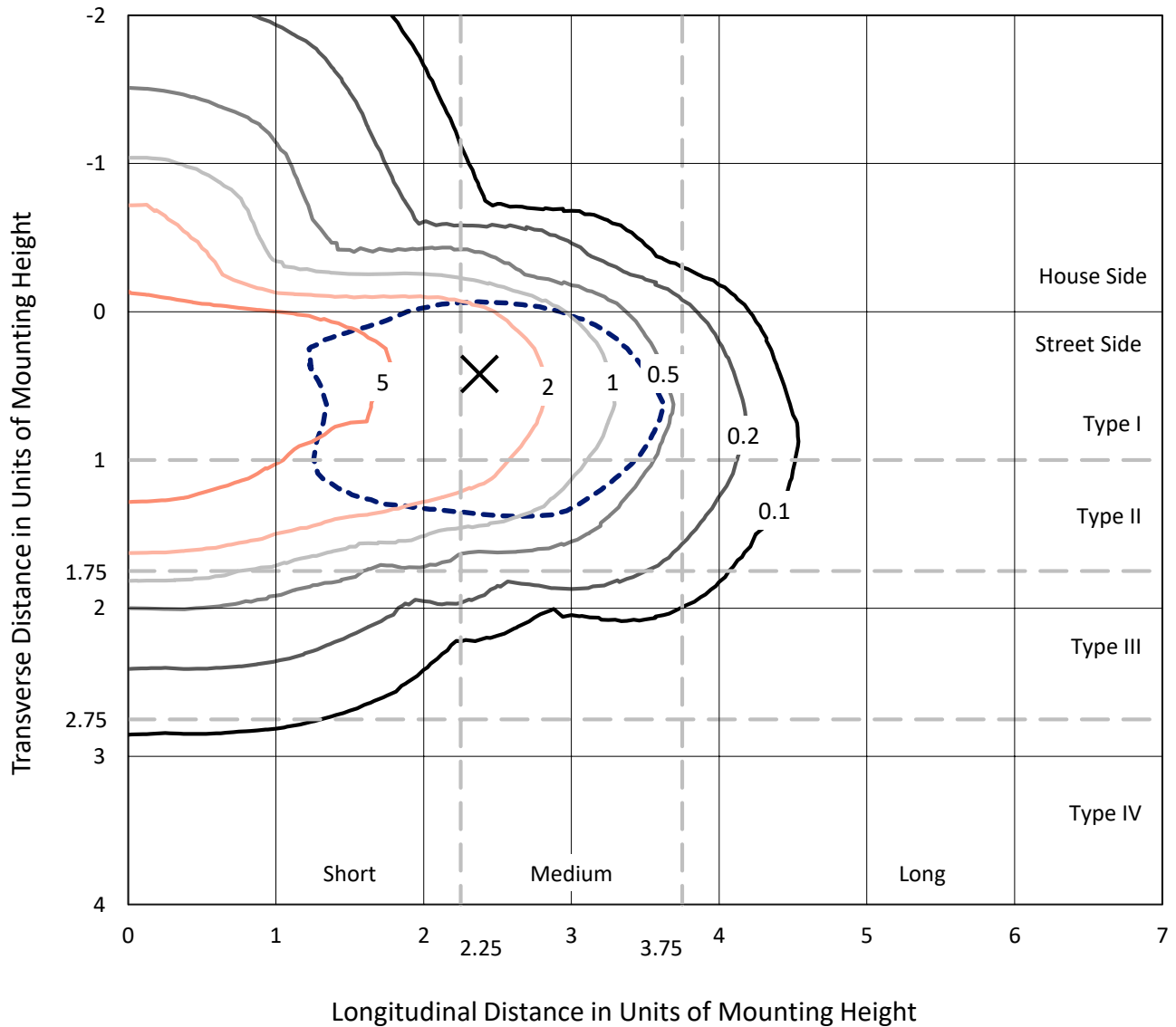


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Iso-Footcandle Lines of Horizontal Illumination

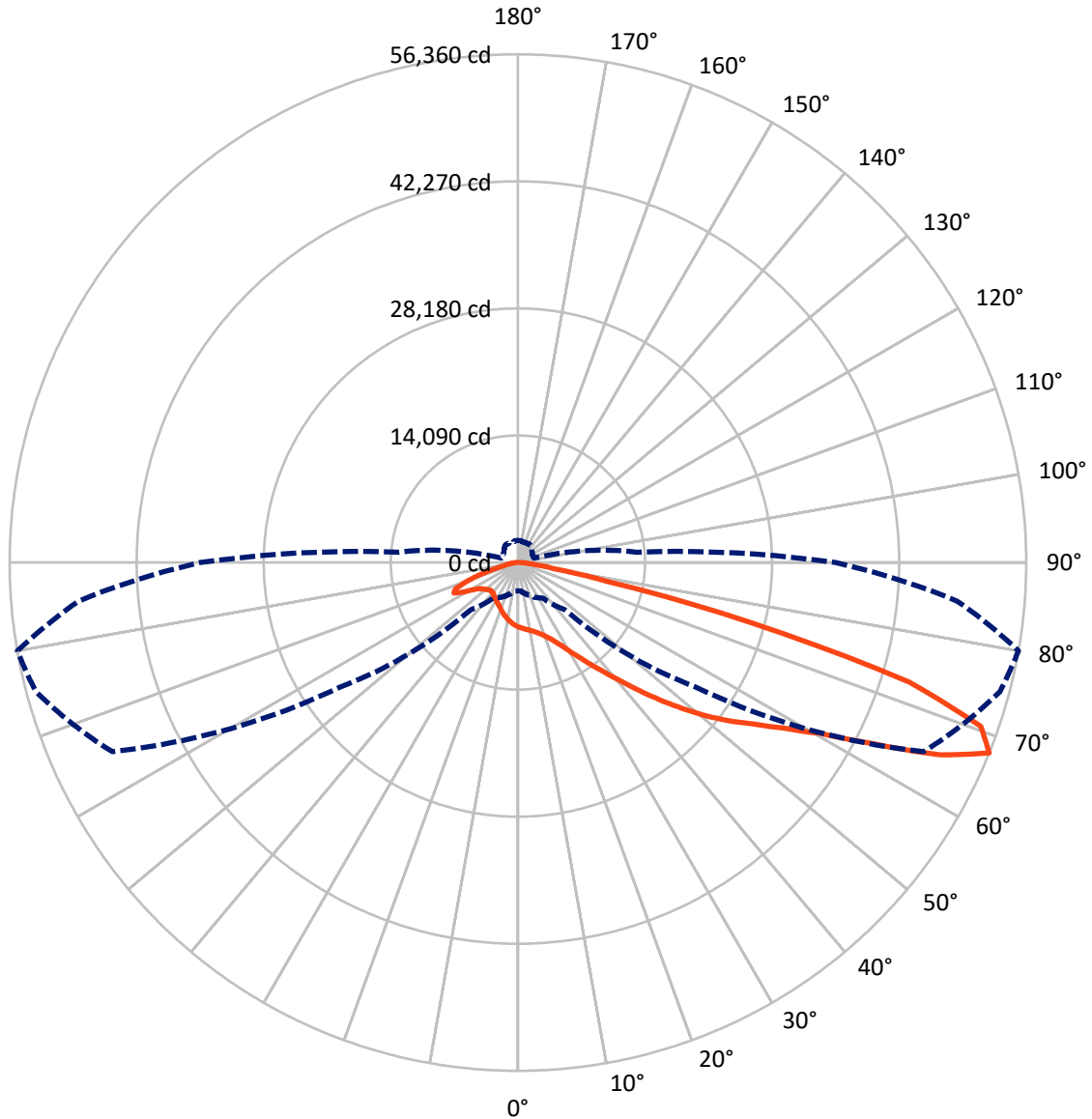
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.6 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	9457.6	0.0	9457.6
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	41897.4	0.0	41897.4
	% Fixture	81.6	0.0	81.6
Total	Lumens	51355.0	0.0	51355.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	658.1	1.3
10°-20°	1895.9	3.7
20°-30°	3138.2	6.1
30°-40°	5133.2	10.0
40°-50°	8288.1	16.1
50°-60°	11965.6	23.3
60°-70°	13204.8	25.7
70°-80°	6086.6	11.9
80°-90°	984.5	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°	51355.0	100.0
0°-180°	51355.0	100.0



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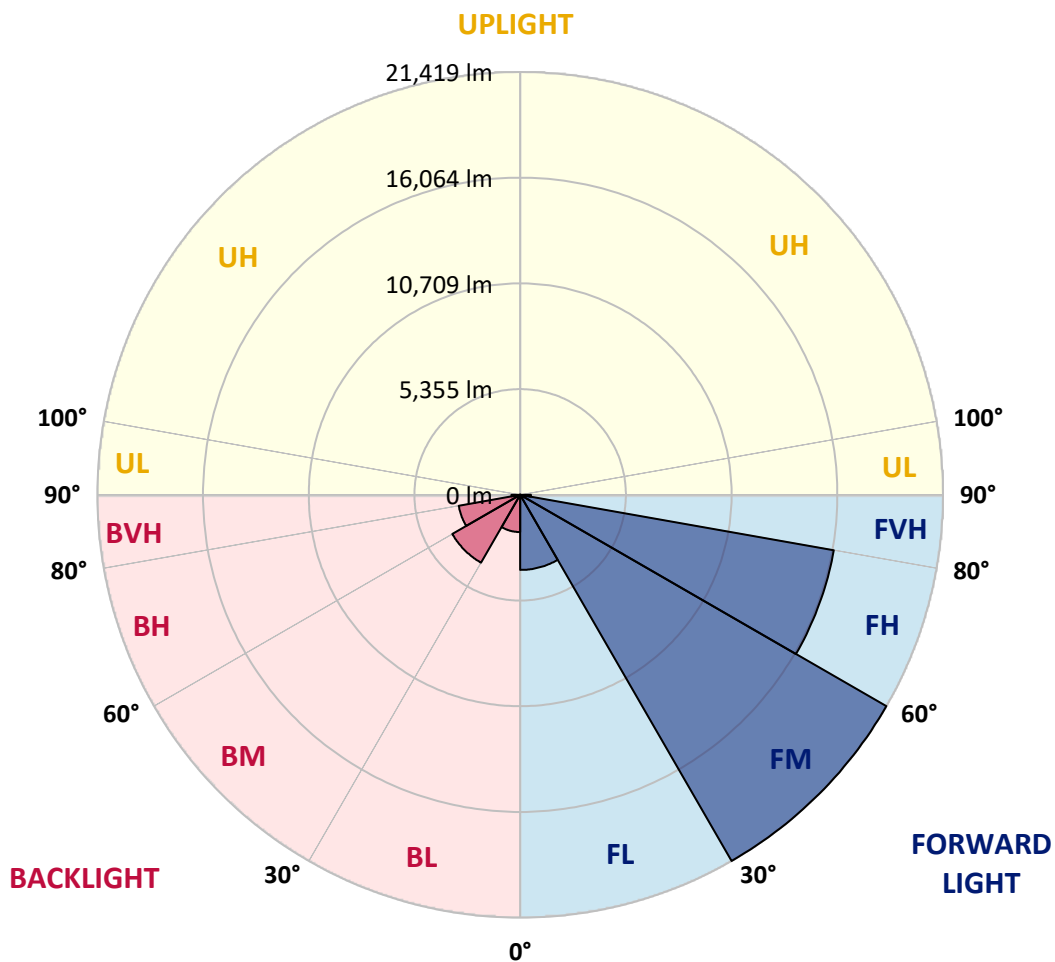
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3805.3	7.4			
FM	(30°-60°)	21418.9	41.7			
FH	(60°-80°)	16131.9	31.4			G5
FVH	(80°-90°)	541.3	1.1			G4/750
BL	(0°-30°)	1886.9	3.7	B3/2500		
BM	(30°-60°)	3968.1	7.7	B3/5000		
BH	(60°-80°)	3159.4	6.2	B4/5000		G4/5000
BVH	(80°-90°)	443.2	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°	7134.7	7134.7	7134.7	7134.7	7134.7	7134.7	7134.7	7134.7	7134.7	7134.7	7134.7
2.5°	7804.7	7759.2	7766.8	7754.1	7716.2	7650.5	7579.7	7450.7	7316.7	7245.9	7190.3
5°	8457.0	8444.3	8426.6	8386.2	8290.1	8153.6	7984.2	7756.7	7511.4	7382.5	7258.6
7.5°	8944.9	8937.3	8914.6	8889.3	8795.8	8631.4	8376.1	8052.5	7696.0	7519.0	7326.8
10°	8985.4	8998.0	9015.7	9084.0	9096.6	9008.1	8747.7	8355.8	7888.1	7660.6	7415.3
12.5°	8641.5	8669.3	8737.6	8912.1	9096.6	9205.3	9071.3	8674.4	8113.1	7837.6	7526.6
15°	8186.5	8201.6	8285.1	8525.2	8856.4	9192.7	9319.1	9025.8	8403.9	8065.1	7693.4
17.5°	7991.8	7999.4	8057.5	8216.8	8525.2	9005.6	9458.2	9407.6	8760.4	8348.3	7898.2
20°	7893.2	7910.9	7994.3	8151.1	8345.7	8765.4	9478.4	9819.7	9185.1	8702.2	8156.1
22.5°	8173.8	8166.2	8196.6	8274.9	8439.3	8692.1	9463.2	10244.4	9726.2	9157.3	8492.4
25°	8828.6	8856.4	8803.3	8714.9	8767.9	8944.9	9544.1	10704.6	10403.7	9741.3	8932.3
27.5°	9761.5	9733.7	9655.4	9448.0	9339.3	9415.2	9812.1	11200.1	11245.6	10509.9	9513.8
30°	10691.9	10669.2	10593.3	10340.5	10118.0	10054.8	10332.9	11769.0	12249.3	11432.7	10226.7
32.5°	11657.7	11632.4	11561.7	11308.8	11040.8	10894.2	11073.7	12426.3	13432.6	12535.0	11066.1
35°	12848.5	12800.5	12651.3	12299.9	12037.0	11923.2	12006.6	13253.1	14797.8	13839.6	12085.0
37.5°	13968.5	14041.9	13890.2	13404.7	13063.4	13023.0	13116.5	14261.8	16269.2	15298.4	13255.6
40°	15093.6	15106.3	14969.7	14572.8	14221.4	14155.6	14390.8	15485.5	18006.2	17042.9	14679.0
42.5°	16256.6	16281.9	16051.8	15685.2	15427.3	15440.0	15708.0	16919.0	19998.4	19098.4	16317.3
45°	17634.5	17672.4	17419.6	16939.2	16704.1	17176.9	17065.6	18527.0	22182.8	21434.4	18198.3
47.5°	19075.6	19133.7	18941.6	18491.6	18198.3	18848.1	18423.3	20309.4	24534.1	23939.9	20263.9
50°	19861.9	19945.3	20132.4	20099.5	20036.3	19927.6	19937.7	22220.7	26958.7	26549.1	22387.6
52.5°	19439.7	19437.1	20119.8	20949.0	21833.9	21899.6	21783.3	24235.7	29224.0	29100.1	24387.4
55°	17508.1	17639.6	18673.6	20279.0	22696.0	24205.4	24549.2	26544.0	31448.8	31592.9	26417.6
57.5°	14292.2	14400.9	15796.5	18034.0	21533.0	25575.7	28483.2	29899.0	33936.6	34609.1	29120.3
60°	9693.3	9824.8	11303.8	13991.3	18403.1	24812.2	32227.5	35885.9	36914.9	38444.5	32912.7
62.5°	5696.1	5815.0	7020.9	8826.1	12957.2	21265.1	33870.9	44403.5	41645.2	44231.6	38697.3
65°	3921.3	4002.2	4588.8	5493.9	7445.7	14322.5	31833.1	50284.2	48924.0	51401.7	45404.7
67.5°	3155.2	3145.1	3610.3	4227.2	4793.5	7385.0	24071.4	49619.3	55325.6	56359.6	48886.1
70°	2599.0	2588.9	2905.0	3415.7	3830.3	4159.0	13111.5	41872.8	54021.0	54440.7	45680.3
72.5°	2174.3	2184.4	2386.7	2765.9	3142.6	3132.5	5761.9	29456.6	42497.2	45399.7	36414.3
75°	1835.5	1840.6	1974.6	2242.6	2551.0	2523.2	3124.9	15958.3	24703.5	26723.5	20185.5
77.5°	1562.5	1567.5	1653.5	1802.6	2022.6	2012.5	2280.5	6894.5	10305.1	10178.7	6904.6
80°	1393.1	1393.1	1433.5	1461.3	1582.7	1537.2	1691.4	3312.0	4356.2	4022.4	2755.8
82.5°	1092.2	1097.3	1345.0	1334.9	1246.4	1188.3	1188.3	1951.8	2308.3	2133.8	1613.0
85°	614.4	611.8	867.2	1046.7	1097.3	836.8	829.3	1092.2	1256.5	1107.4	781.2
87.5°	262.9	268.0	402.0	465.2	621.9	520.8	513.2	563.8	639.6	553.7	361.5
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°	7134.7	7134.7	7134.7	7134.7	7134.7	7134.7	7134.7	7134.7	7134.7	7134.7	7134.7
2.5°	7137.2	7071.5	6927.4	6747.9	6586.1	6479.9	6383.8	6244.8	6252.3	6156.3	6085.5
5°	7132.2	6995.6	6661.9	6265.0	5883.2	5607.6	5400.3	5213.2	5167.7	5079.2	5026.1
7.5°	7137.2	6914.7	6353.5	5718.9	5246.1	4897.2	4720.2	4621.6	4598.9	4568.5	4571.1
10°	7154.9	6841.4	6014.7	5208.2	4712.6	4482.6	4439.6	4469.9	4505.3	4515.4	4518.0
12.5°	7195.4	6775.7	5643.0	4753.1	4378.9	4308.1	4381.4	4485.1	4553.4	4586.2	4583.7
15°	7286.4	6725.1	5286.6	4396.6	4194.4	4232.3	4368.8	4515.4	4614.0	4659.6	4662.1
17.5°	7385.0	6651.8	4920.0	4123.6	4057.8	4153.9	4323.3	4495.2	4616.6	4667.1	4677.3
20°	7513.9	6560.8	4535.7	3918.8	3928.9	4037.6	4196.9	4368.8	4502.8	4545.8	4566.0
22.5°	7683.3	6462.2	4199.4	3751.9	3782.3	3865.7	3989.6	4138.7	4255.0	4275.3	4293.0
25°	7910.9	6356.0	3931.4	3600.2	3612.9	3660.9	3744.3	3832.8	3913.7	3891.0	3908.7
27.5°	8216.8	6265.0	3731.7	3461.2	3438.4	3448.5	3491.5	3519.3	3562.3	3499.1	3506.7
30°	8575.8	6166.4	3577.5	3339.8	3276.6	3258.9	3269.0	3284.2	3317.1	3231.1	3218.5
32.5°	8993.0	6047.6	3433.4	3233.6	3145.1	3109.7	3114.8	3155.2	3281.7	3228.6	3200.8
35°	9478.4	5913.6	3281.7	3117.3	3056.6	3006.1	3001.0	3127.4	3504.1	3471.3	3446.0
37.5°	10047.2	5779.6	3130.0	2985.9	2990.9	2935.3	2917.6	3061.7	3547.1	3418.2	3400.5
40°	10770.3	5708.8	3001.0	2846.8	2910.0	2902.4	2867.0	2940.3	3264.0	3028.8	2998.5
42.5°	11665.3	5718.9	2905.0	2697.6	2813.9	2894.8	2839.2	2841.7	2958.0	2781.1	2753.3
45°	12770.2	5837.7	2836.7	2578.8	2705.2	2887.3	2829.1	2788.7	2798.8	2705.2	2690.1
47.5°	14059.6	6083.0	2788.7	2480.2	2601.6	2859.4	2826.6	2773.5	2750.7	2700.2	2687.5
50°	15493.1	6439.4	2753.3	2386.7	2508.0	2813.9	2829.1	2758.3	2733.0	2712.8	2705.2
52.5°	16901.3	6846.5	2700.2	2305.8	2434.7	2758.3	2836.7	2743.1	2715.3	2700.2	2692.6
55°	18471.3	7354.7	2619.3	2237.5	2374.0	2687.5	2836.7	2720.4	2690.1	2692.6	2690.1
57.5°	20592.5	8176.3	2523.2	2179.3	2300.7	2601.6	2788.7	2695.1	2657.2	2659.7	2662.2
60°	23907.1	9625.0	2406.9	2121.2	2209.7	2500.4	2722.9	2639.5	2601.6	2611.7	2614.2
62.5°	28781.5	11751.3	2255.2	2035.2	2113.6	2391.7	2631.9	2568.7	2530.8	2556.1	2556.1
65°	33848.1	13627.2	2068.1	1926.5	2012.5	2272.9	2518.1	2480.2	2442.3	2500.4	2497.9
67.5°	35210.8	13207.5	1881.0	1807.7	1911.4	2141.4	2381.6	2361.4	2341.2	2442.3	2437.2
70°	31279.4	10603.5	1709.1	1686.3	1800.1	1999.8	2235.0	2235.0	2222.3	2298.2	2280.5
72.5°	23831.2	7519.0	1544.8	1557.4	1673.7	1845.6	2075.7	2093.4	2073.2	2111.1	2095.9
75°	12757.5	4303.1	1380.4	1415.8	1516.9	1688.9	1898.7	1916.4	1903.8	1901.2	1908.8
77.5°	4239.9	2103.5	1208.5	1264.1	1352.6	1527.1	1714.1	1742.0	1711.6	1706.6	1704.0
80°	1888.6	1322.3	1018.9	1092.2	1170.6	1342.5	1519.5	1542.2	1509.4	1554.9	1496.7
82.5°	1213.6	869.7	816.6	897.5	973.4	1157.9	1324.8	1329.9	1299.5	1509.4	1286.9
85°	589.1	538.5	614.4	687.7	753.4	910.2	1097.3	1099.8	1023.9	932.9	900.1
87.5°	293.3	313.5	409.6	475.3	508.2	624.5	798.9	783.8	750.9	682.6	629.5
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)