

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: P193125

Luminaire Tested: **GLEON-AF-07-LED-E1-T2-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193125
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-07-LED-E1-T2-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 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: 43835.9 lumens
Efficiency: N/A
Efficacy: 97.8 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): 448
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



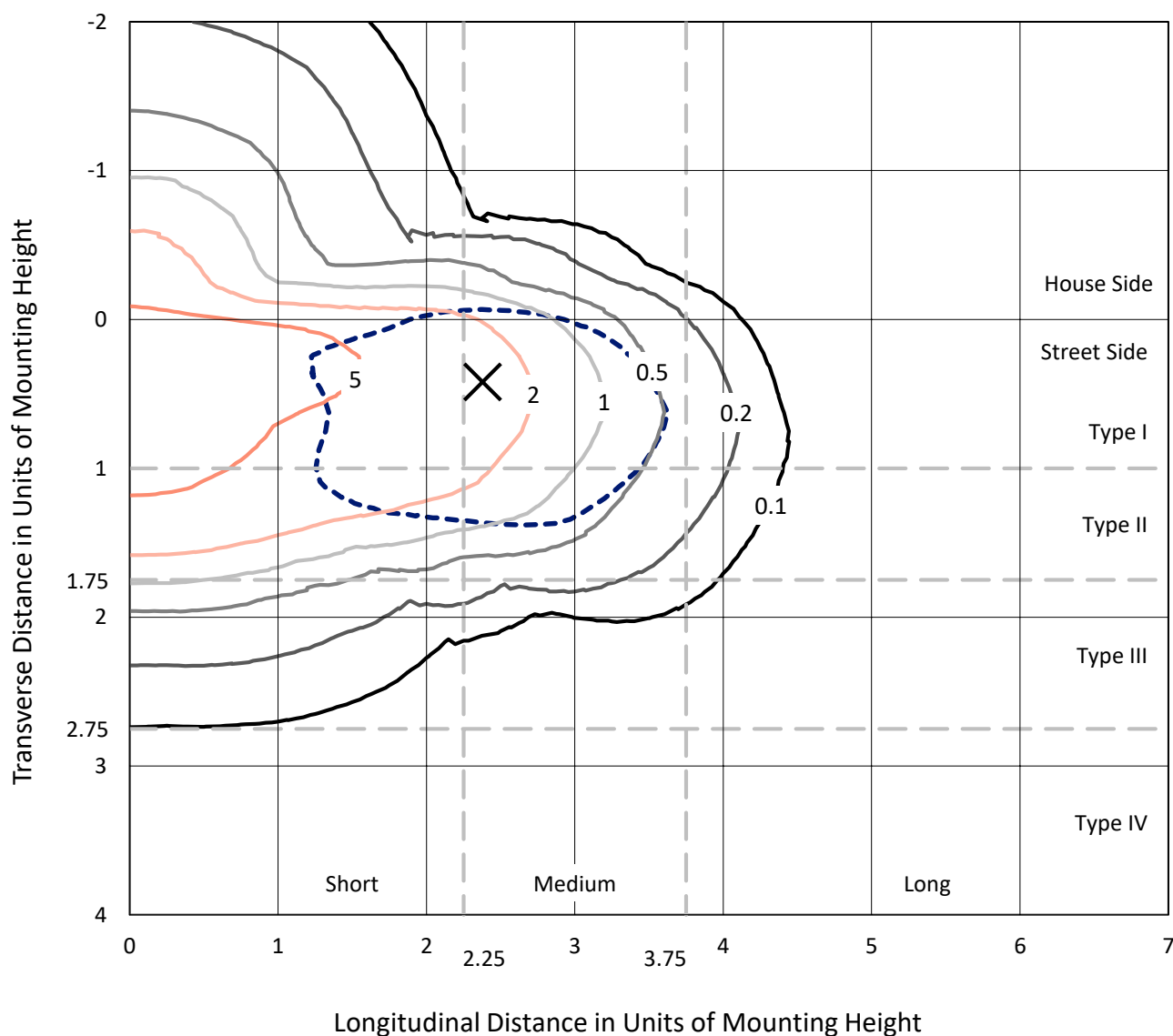
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

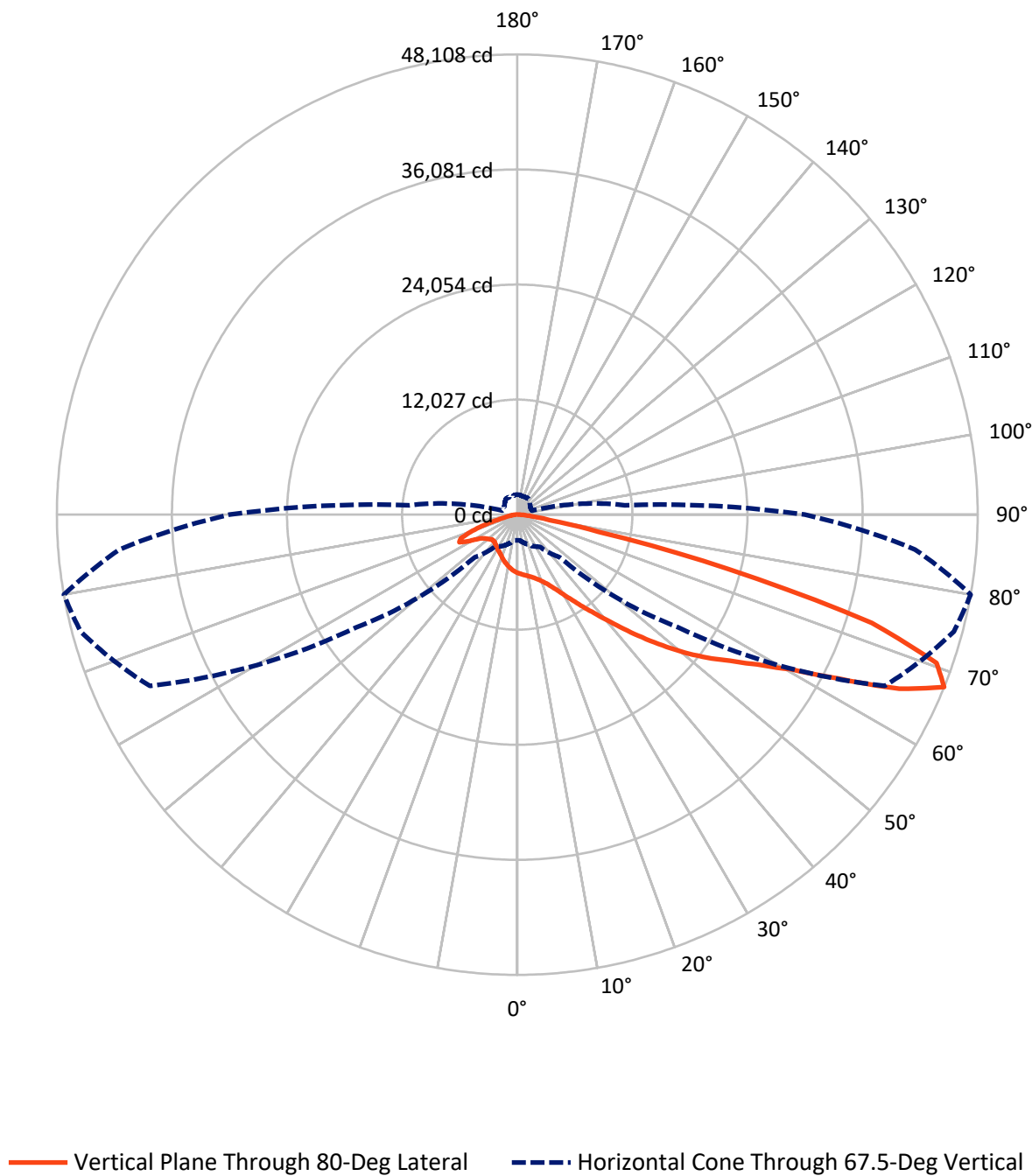


Based on 30 foot mounting height. Maximum calculated value = 8.2 fc
Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8072.9	0.0	8072.9
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	35763.0	0.0	35763.0
	% Fixture	81.6	0.0	81.6
Total	Lumens	43835.9	0.0	43835.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	561.8	1.3
10°-20°	1618.3	3.7
20°-30°	2678.7	6.1
30°-40°	4381.6	10.0
40°-50°	7074.6	16.1
50°-60°	10213.7	23.3
60°-70°	11271.4	25.7
70°-80°	5195.4	11.9
80°-90°	840.3	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°	43835.9	100.0
0°-180°	43835.9	100.0

Coefficient of Utilization



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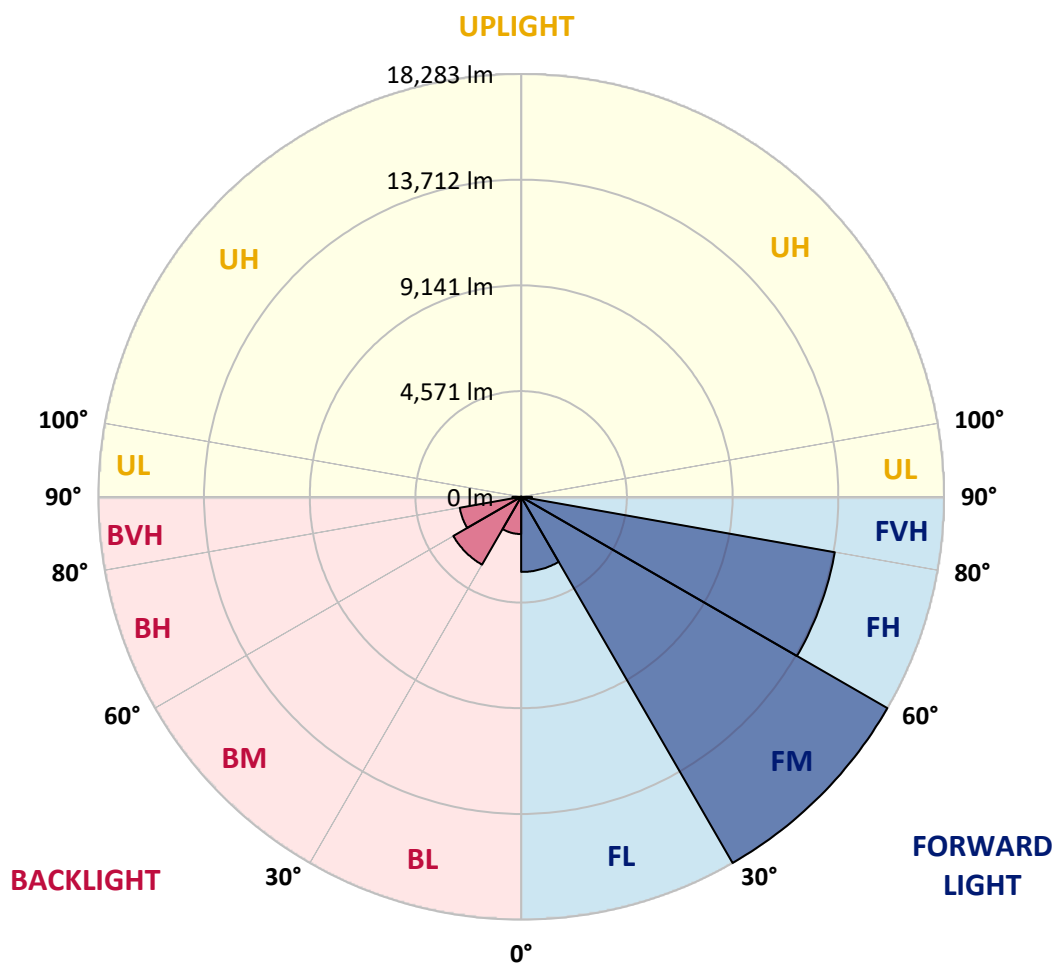
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3248.2	7.4			
FM	(30°-60°)	18282.8	41.7			
FH	(60°-80°)	13770.0	31.4			G5
FVH	(80°-90°)	462.0	1.1			G3/500
BL	(0°-30°)	1610.7	3.7	B3/2500		
BM	(30°-60°)	3387.1	7.7	B3/5000		
BH	(60°-80°)	2696.8	6.2	B4/5000		G4/5000
BVH	(80°-90°)	378.3	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°	6090.1	6090.1	6090.1	6090.1	6090.1	6090.1	6090.1	6090.1	6090.1	6090.1	6090.1
2.5°	6662.0	6623.1	6629.7	6618.8	6586.4	6530.3	6469.9	6359.9	6245.5	6185.0	6137.5
5°	7218.8	7208.0	7192.9	7158.3	7076.2	6959.9	6815.1	6621.0	6411.7	6301.5	6195.9
7.5°	7635.2	7628.8	7609.4	7587.8	7508.0	7367.7	7149.7	6873.5	6569.2	6418.1	6254.1
10°	7669.8	7680.6	7695.6	7753.9	7764.7	7689.2	7466.9	7132.5	6733.2	6538.9	6329.6
12.5°	7376.3	7400.0	7458.2	7607.1	7764.7	7857.6	7743.2	7404.4	6925.3	6690.1	6424.6
15°	6987.9	7000.8	7072.1	7277.0	7559.7	7846.8	7954.6	7704.3	7173.4	6884.2	6567.0
17.5°	6821.7	6828.1	6877.8	7013.8	7277.0	7687.1	8073.3	8030.2	7477.7	7126.0	6741.9
20°	6737.5	6752.7	6823.8	6957.6	7123.8	7482.1	8090.6	8382.0	7840.2	7428.1	6961.9
22.5°	6977.1	6970.5	6996.5	7063.4	7203.7	7419.5	8077.6	8744.6	8302.1	7816.5	7249.0
25°	7535.9	7559.7	7514.5	7438.9	7484.2	7635.2	8146.7	9137.3	8880.5	8315.0	7624.4
27.5°	8332.3	8308.6	8241.7	8064.8	7971.9	8036.7	8375.5	9560.3	9599.1	8971.1	8120.8
30°	9126.5	9107.1	9042.3	8826.5	8636.6	8582.7	8820.1	10045.9	10455.9	9758.8	8729.4
32.5°	9950.9	9929.3	9868.9	9653.0	9424.2	9299.2	9452.3	10606.9	11465.8	10699.8	9445.9
35°	10967.3	10926.4	10798.9	10499.0	10274.6	10177.5	10248.7	11312.6	12631.3	11813.3	10315.6
37.5°	11923.4	11986.0	11856.5	11442.0	11150.8	11116.2	11196.2	12173.6	13887.2	13058.4	11314.8
40°	12883.8	12894.4	12778.0	12439.1	12139.1	12083.1	12283.8	13218.1	15369.8	14547.6	12529.8
42.5°	13876.4	13898.0	13701.6	13388.7	13168.6	13179.4	13408.1	14441.8	17070.3	16302.1	13928.2
45°	15052.5	15084.9	14869.1	14459.1	14258.5	14661.9	14567.0	15814.4	18934.9	18296.1	15533.8
47.5°	16282.7	16332.3	16168.3	15784.1	15533.8	16088.4	15725.9	17335.8	20941.9	20434.8	17297.0
50°	16953.9	17025.0	17184.8	17156.7	17102.7	17009.9	17018.5	18967.3	23011.5	22661.9	19109.8
52.5°	16593.4	16591.2	17173.9	17881.8	18637.1	18693.2	18594.0	20687.2	24945.2	24839.4	20816.7
55°	14944.7	15056.9	15939.5	17310.0	19373.0	20661.4	20955.0	22657.6	26844.2	26967.3	22549.7
57.5°	12199.6	12292.4	13483.6	15393.5	18380.3	21831.1	24312.8	25521.4	28967.8	29541.8	24856.7
60°	8274.1	8386.3	9648.8	11942.8	15708.6	21179.4	27509.0	30631.7	31510.1	32815.7	28093.9
62.5°	4862.1	4963.5	5993.0	7533.9	11060.1	18151.6	28911.7	37902.2	35547.8	37755.5	33031.5
65°	3347.1	3416.2	3917.0	4689.5	6355.5	12225.4	27172.3	42922.0	41760.8	43875.8	38756.9
67.5°	2693.2	2684.6	3081.7	3608.3	4091.8	6303.7	20547.0	42354.4	47225.1	48107.7	41728.6
70°	2218.5	2209.9	2479.6	2915.6	3269.5	3550.1	11191.8	35742.0	46111.6	46469.8	38992.1
72.5°	1856.0	1864.6	2037.2	2361.0	2682.6	2673.9	4918.2	25143.8	36275.0	38752.5	31082.7
75°	1566.8	1571.0	1685.5	1914.2	2177.5	2153.7	2667.3	13621.8	21086.5	22810.8	17230.0
77.5°	1333.7	1338.0	1411.4	1538.7	1726.4	1717.8	1946.6	5885.0	8796.4	8688.4	5893.7
80°	1189.1	1189.1	1223.6	1247.4	1351.0	1312.1	1443.8	2827.1	3718.3	3433.5	2352.4
82.5°	932.3	936.6	1148.1	1139.5	1063.9	1014.3	1014.3	1665.9	1970.3	1821.5	1376.8
85°	524.5	522.3	740.2	893.4	936.6	714.3	707.9	932.3	1072.6	945.2	666.8
87.5°	224.4	228.8	343.2	397.0	530.9	444.5	438.1	481.3	546.0	472.6	308.6
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°	6090.1	6090.1	6090.1	6090.1	6090.1	6090.1	6090.1	6090.1	6090.1	6090.1	6090.1
2.5°	6092.2	6036.1	5913.1	5759.9	5621.8	5531.1	5449.1	5330.4	5336.9	5255.0	5194.5
5°	6087.9	5971.3	5686.5	5347.7	5021.9	4786.6	4609.6	4449.9	4411.2	4335.5	4290.3
7.5°	6092.2	5902.3	5423.2	4881.6	4478.0	4180.2	4029.2	3945.0	3925.5	3899.7	3901.7
10°	6107.4	5839.8	5134.1	4445.6	4022.6	3826.3	3789.5	3815.5	3845.7	3854.3	3856.6
12.5°	6141.9	5783.6	4816.8	4057.2	3737.8	3677.3	3740.0	3828.5	3886.7	3914.8	3912.6
15°	6219.6	5740.5	4512.5	3752.8	3580.2	3612.6	3729.1	3854.3	3938.5	3977.4	3979.4
17.5°	6303.7	5677.8	4199.6	3519.8	3463.7	3545.7	3690.3	3837.0	3940.7	3983.8	3992.5
20°	6413.8	5600.2	3871.6	3345.0	3353.6	3446.5	3582.4	3729.1	3843.5	3880.3	3897.5
22.5°	6558.4	5516.1	3584.6	3202.6	3228.5	3299.7	3405.4	3532.8	3632.0	3649.3	3664.4
25°	6752.7	5425.4	3355.8	3073.1	3083.9	3125.0	3196.1	3271.7	3340.7	3321.3	3336.3
27.5°	7013.8	5347.7	3185.4	2954.4	2935.0	2943.7	2980.3	3004.1	3040.6	2986.8	2993.2
30°	7320.2	5263.6	3053.7	2850.8	2796.8	2781.7	2790.4	2803.4	2831.4	2758.0	2747.3
32.5°	7676.2	5162.1	2930.7	2760.2	2684.6	2654.5	2658.8	2693.2	2801.2	2755.8	2732.1
35°	8090.6	5047.8	2801.2	2660.9	2609.1	2566.0	2561.6	2669.5	2991.1	2963.0	2941.5
37.5°	8576.2	4933.4	2671.7	2548.7	2553.0	2505.6	2490.4	2613.4	3027.8	2917.8	2902.6
40°	9193.4	4873.0	2561.6	2430.0	2483.9	2477.5	2447.3	2509.8	2786.1	2585.4	2559.5
42.5°	9957.4	4881.6	2479.6	2302.6	2401.9	2471.0	2423.5	2425.7	2525.0	2373.8	2350.1
45°	10900.5	4983.0	2421.4	2201.2	2309.0	2464.6	2414.8	2380.3	2389.0	2309.0	2296.2
47.5°	12001.0	5192.3	2380.3	2117.1	2220.7	2440.8	2412.8	2367.4	2348.0	2304.9	2294.0
50°	13224.6	5496.7	2350.1	2037.2	2140.8	2401.9	2414.8	2354.4	2332.9	2315.6	2309.0
52.5°	14426.7	5844.1	2304.9	1968.2	2078.2	2354.4	2421.4	2341.5	2317.7	2304.9	2298.4
55°	15766.8	6277.8	2235.8	1909.9	2026.4	2294.0	2421.4	2322.1	2296.2	2298.4	2296.2
57.5°	17577.5	6979.3	2153.7	1860.2	1963.8	2220.7	2380.3	2300.5	2268.1	2270.3	2272.5
60°	20406.8	8215.8	2054.5	1810.7	1886.2	2134.4	2324.3	2253.0	2220.7	2229.3	2231.4
62.5°	24567.5	10030.8	1925.0	1737.2	1804.2	2041.5	2246.6	2192.7	2160.3	2181.8	2181.8
65°	28892.3	11632.1	1765.3	1644.5	1717.8	1940.1	2149.4	2117.1	2084.6	2134.4	2132.2
67.5°	30055.5	11273.8	1605.6	1543.1	1631.5	1827.9	2032.9	2015.7	1998.4	2084.6	2080.4
70°	26699.6	9050.9	1458.8	1439.4	1536.5	1707.0	1907.7	1907.7	1897.0	1961.6	1946.6
72.5°	20342.0	6418.1	1318.5	1329.3	1428.7	1575.4	1771.7	1786.9	1769.7	1802.0	1789.0
75°	10889.7	3673.1	1178.4	1208.5	1294.8	1441.5	1620.8	1635.8	1625.0	1622.8	1629.4
77.5°	3619.1	1795.5	1031.5	1079.1	1154.6	1303.5	1463.2	1486.9	1461.1	1456.8	1454.6
80°	1612.1	1128.6	869.7	932.3	999.1	1145.9	1297.0	1316.5	1288.3	1327.2	1277.6
82.5°	1035.9	742.4	697.1	766.1	830.8	988.4	1130.9	1135.1	1109.2	1288.3	1098.5
85°	502.8	459.7	524.5	587.0	643.1	777.0	936.6	938.7	874.1	796.3	768.3
87.5°	250.3	267.5	349.6	405.7	433.8	533.0	682.0	669.0	641.0	582.7	537.3
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)