

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: P191506

Luminaire Tested: **GLEON-AF-08-LED-E1-T3R-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191506  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)  
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-T3R-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 54734 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B3 - U0 - G5

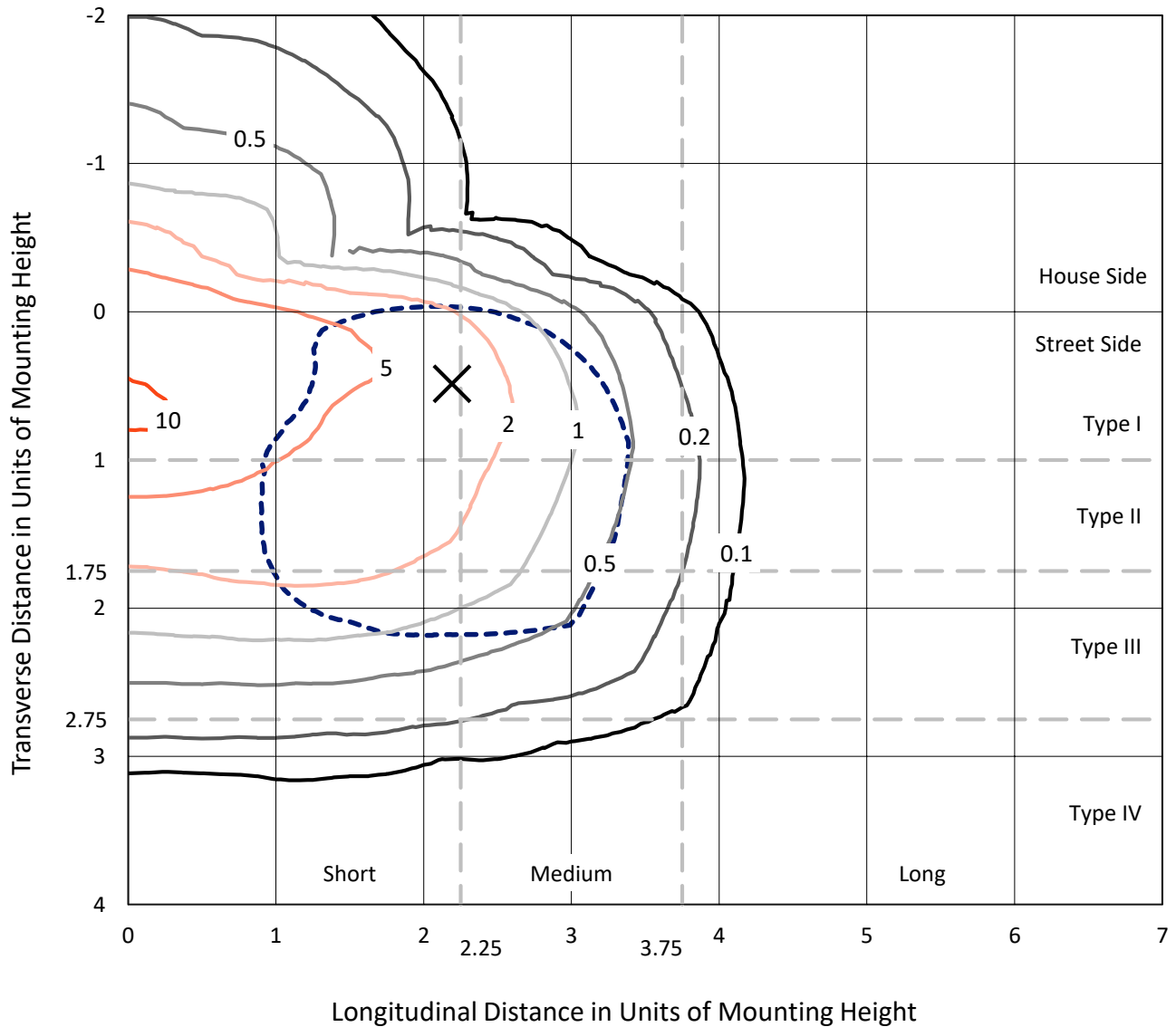
Input Watts (W): 511  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

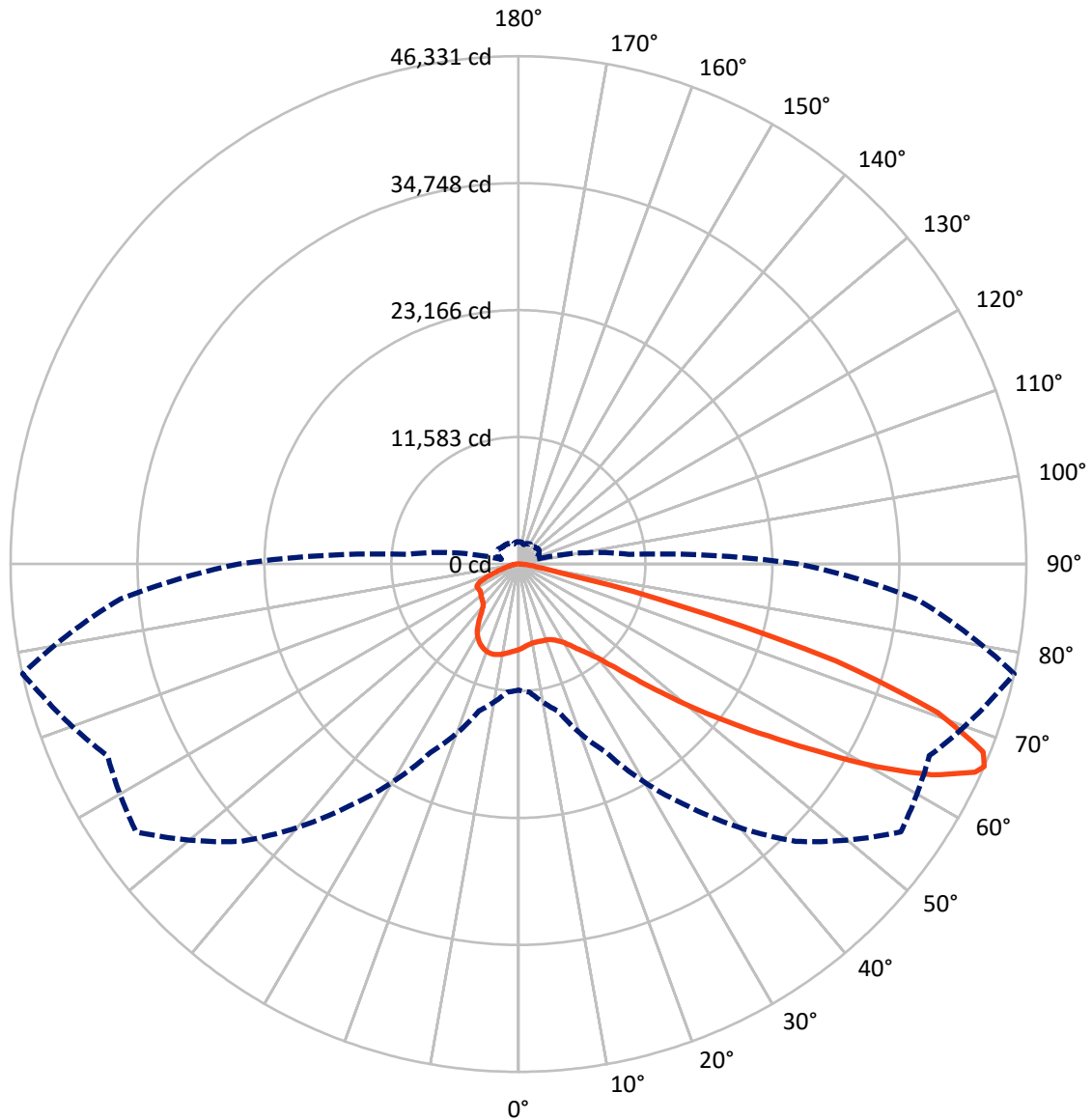
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.7 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9351.0	0.0	9351.0
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	45383.0	0.0	45383.0
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	54734.0	0.0	54734.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	696.9	1.3
10°-20°	1965.9	3.6
20°-30°	3355.2	6.1
30°-40°	5371.0	9.8
40°-50°	8297.7	15.2
50°-60°	11769.1	21.5
60°-70°	15743.8	28.8
70°-80°	6837.2	12.5
80°-90°	697.2	1.3
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°	54734.0	100.0
0°-180°	54734.0	100.0



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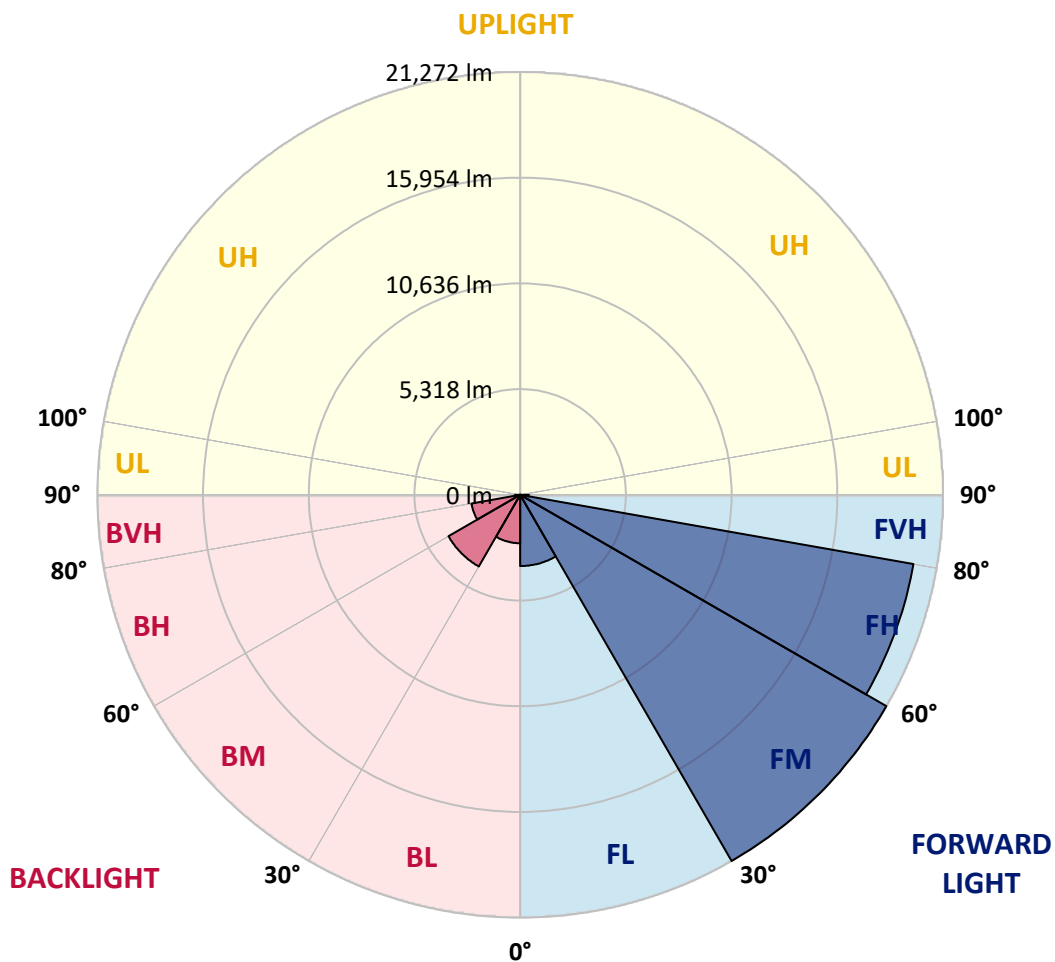
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3582.6	6.5			
FM	(30°-60°)	21272.5	38.9			
FH	(60°-80°)	20090.7	36.7			G5
FVH	(80°-90°)	437.3	0.8			G3/500
BL	(0°-30°)	2435.4	4.4	B3/2500		
BM	(30°-60°)	4165.3	7.6	B3/5000		
BH	(60°-80°)	2490.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	259.9	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	7799.9	7799.9	7799.9	7799.9	7799.9	7799.9	7799.9	7799.9	7799.9	7799.9	7799.9
2.5°	6899.9	6946.4	6985.2	7021.4	7093.9	7212.8	7349.9	7461.1	7621.4	7652.5	7737.8
5°	6266.3	6266.3	6297.3	6351.6	6449.9	6628.3	6814.5	7062.8	7411.9	7494.6	7722.3
7.5°	5958.5	5961.1	5979.2	6025.8	6111.1	6274.1	6478.3	6770.6	7243.8	7380.9	7768.8
10°	6072.3	6046.5	6007.7	5984.4	5997.3	6093.0	6287.0	6612.8	7140.4	7316.2	7872.2
12.5°	6708.5	6659.4	6524.9	6346.4	6175.8	6105.9	6219.7	6537.8	7096.4	7300.7	8009.3
15°	7748.1	7727.5	7476.5	7106.7	6693.0	6346.4	6268.8	6509.3	7101.6	7318.8	8172.3
17.5°	9051.6	9023.1	8692.1	8154.1	7479.2	6804.2	6442.1	6532.7	7119.7	7349.9	8330.0
20°	10367.9	10279.9	9923.1	9281.7	8415.4	7427.4	6729.2	6592.1	7143.0	7383.5	8495.5
22.5°	11350.7	11278.2	10957.5	10334.3	9336.1	8149.0	7114.5	6695.5	7217.9	7481.8	8699.9
25°	12214.4	12219.6	11901.5	11298.9	10267.1	8914.5	7611.1	6972.3	7409.3	7683.5	8979.2
27.5°	13282.5	13220.4	12923.0	12325.6	11187.7	9687.8	8211.0	7352.5	7693.8	7970.5	9346.4
30°	14560.1	14516.1	14172.2	13494.6	12209.2	10517.9	8896.4	7794.7	8061.1	8348.1	9827.4
32.5°	16062.7	16041.9	15685.0	14813.6	13388.6	11495.5	9700.6	8379.2	8609.4	8906.7	10517.9
35°	17826.4	17829.0	17407.5	16360.1	14679.0	12633.3	10613.6	9131.7	9276.5	9586.9	11340.3
37.5°	18912.6	19044.5	18886.7	17818.7	16140.2	13905.8	11798.1	10130.0	10036.9	10349.8	12222.2
40°	19145.3	19305.6	19804.8	19261.8	17774.7	15307.4	12848.1	11089.4	10973.1	11355.8	13357.5
42.5°	18819.4	19041.9	20097.0	20479.8	19510.0	17035.0	14260.0	12514.5	12367.0	12881.6	14769.6
45°	18625.5	18791.0	20011.7	21113.4	21015.1	18987.6	16057.5	14304.0	14249.7	14924.8	16398.8
47.5°	18289.3	18439.3	19613.4	21260.8	21899.6	20777.2	18216.9	16491.9	16598.0	17482.4	18237.6
50°	18470.4	18532.4	19168.6	20885.8	22155.6	22088.4	20629.7	19026.4	19388.4	20492.8	20319.5
52.5°	18444.5	18604.8	19116.9	20270.3	22189.2	22897.8	23006.5	21853.1	22616.0	23883.1	22628.9
55°	14911.8	15206.6	18509.2	20115.1	22308.2	23691.8	25121.9	24832.3	26254.6	27731.4	25235.8
57.5°	14239.4	14425.6	16256.6	20441.0	22939.3	25207.2	27475.3	28111.5	30490.8	32205.5	28411.5
60°	14107.5	14337.7	16233.3	20839.2	24219.4	27677.1	30964.1	32081.3	35645.0	37522.6	32094.3
62.5°	13696.3	13944.6	16080.8	20787.6	26037.5	31093.4	35430.4	36302.0	40532.9	42358.7	35174.4
65°	12392.8	12625.7	14836.8	19952.2	27263.3	34739.9	40716.5	40170.8	44391.5	45764.7	36710.5
66°	11500.6	11728.2	13856.7	18969.5	26978.8	35774.3	42588.8	41368.2	45255.2	46331.1	36410.5
67.5°	9868.8	10047.2	11953.2	16768.6	25466.0	36064.0	44163.9	42268.2	45345.7	45725.9	34695.9
70°	6235.2	6287.0	7768.8	11575.6	19277.2	31277.0	41766.5	40033.8	41606.2	40576.9	29086.5
72.5°	2705.1	2687.0	3729.3	5888.7	10913.6	20986.7	33785.6	33033.0	32637.3	30289.1	20360.8
75°	1505.2	1525.8	1937.1	2733.5	4435.3	10308.5	22101.4	21149.6	17857.4	15237.7	9232.5
77.5°	1207.7	1236.1	1606.0	1939.6	1991.4	3594.8	10342.0	8415.4	5066.3	4065.4	2565.5
80°	954.3	1006.0	1401.6	1510.3	1342.2	1481.8	3341.4	2671.5	2004.3	1838.8	1329.3
82.5°	755.1	791.4	1202.6	1143.0	938.8	998.3	1600.8	1559.5	1303.4	1187.0	768.1
85°	543.1	610.3	987.9	861.2	615.5	672.4	1062.9	1019.0	747.4	610.3	338.8
87.5°	222.4	289.7	698.3	571.5	343.9	312.9	530.2	499.1	354.4	258.6	168.1
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°	7799.9	7799.9	7799.9	7799.9	7799.9	7799.9	7799.9	7799.9	7799.9	7799.9	7799.9
2.5°	7792.1	7854.2	7934.3	7983.5	8009.3	8027.4	8055.8	8053.3	8061.1	8063.6	8073.9
5°	7843.8	7947.3	8063.6	8094.7	8094.7	8066.3	8037.7	7991.2	7973.1	7968.0	7973.1
7.5°	7978.3	8092.1	8192.9	8156.7	8079.2	7965.4	7818.0	7688.6	7618.8	7595.5	7590.4
10°	8149.0	8286.0	8327.4	8190.4	7962.8	7688.6	7396.4	7184.4	7062.8	7029.2	7018.9
12.5°	8355.9	8485.2	8428.3	8138.6	7717.1	7274.8	6871.5	6532.7	6279.2	6199.0	6193.9
15°	8583.5	8684.3	8485.2	7978.3	7349.9	6698.2	5979.2	5394.7	5079.3	4978.4	4970.6
17.5°	8795.5	8847.3	8451.5	7699.0	6809.4	5754.2	4799.9	4349.9	4241.3	4267.1	4272.4
20°	8976.6	8976.6	8337.8	7298.1	5958.5	4510.3	3907.7	3899.9	3977.5	4055.1	4070.6
22.5°	9175.7	9056.7	8138.6	6731.7	4753.3	3690.5	3602.5	3675.0	3762.8	3848.2	3861.1
25°	9421.4	9121.3	7861.9	5873.2	3737.0	3351.7	3385.3	3444.8	3488.8	3543.0	3550.8
27.5°	9695.5	9204.1	7497.3	4691.3	3243.1	3139.6	3165.4	3186.2	3181.0	3201.6	3206.8
30°	10024.0	9299.9	6998.1	3667.2	3038.8	2958.6	2912.0	2893.9	2893.9	2927.6	2940.5
32.5°	10463.6	9442.0	6281.7	3142.2	2940.5	2829.3	2679.2	2612.0	2637.9	2751.6	2777.5
35°	10947.2	9594.7	5312.0	2963.7	2919.8	2769.7	2537.0	2412.9	2415.5	2521.5	2555.1
37.5°	11474.7	9788.6	4249.0	2930.1	2966.4	2772.4	2462.0	2291.3	2221.5	2221.5	2234.4
40°	12149.8	9987.8	3439.6	2953.4	3064.6	2803.4	2423.3	2195.7	1999.1	2004.3	2014.6
42.5°	13029.1	10158.4	3005.1	3002.6	3183.5	2844.8	2420.6	2068.9	1898.3	2014.6	2120.7
45°	14006.7	10243.7	2813.7	3046.4	3279.3	2870.6	2379.3	2048.3	1911.2	2257.8	2459.5
47.5°	15131.6	10194.6	2707.8	3062.0	3302.5	2870.6	2332.7	2097.4	2001.7	2614.6	2849.9
50°	16365.2	10052.4	2604.2	3031.0	3294.7	2865.5	2376.7	2146.6	2035.3	2676.7	2839.6
52.5°	17816.0	9933.5	2495.7	2963.7	3240.5	2837.1	2428.4	2125.8	1929.3	2433.6	2547.4
55°	19471.2	9967.0	2374.1	2868.0	3155.1	2782.7	2410.3	2043.0	1818.1	2143.9	2213.8
57.5°	21586.7	10367.9	2229.3	2746.5	3038.8	2692.2	2345.6	2004.3	1784.4	1944.8	1986.2
60°	23947.8	11066.2	2048.3	2625.0	2893.9	2547.4	2296.5	2022.4	1800.0	1929.3	1949.9
62.5°	25680.6	11472.2	1893.1	2446.5	2697.3	2387.1	2234.4	2045.7	1841.3	1983.6	1978.4
65°	26151.2	10805.0	1699.1	2185.3	2430.9	2218.9	2156.9	2071.5	1859.4	2027.6	2004.3
66°	25491.7	10086.0	1613.8	2063.8	2296.5	2136.1	2118.0	2068.9	1851.6	2032.7	1993.9
67.5°	23890.9	8611.9	1466.4	1885.3	2081.8	2012.0	2056.0	2045.7	1831.0	2027.6	1973.3
70°	19484.1	5875.7	1254.2	1569.8	1732.8	1771.5	1937.1	1962.9	1763.8	1937.1	1818.1
72.5°	13613.5	3579.2	1109.5	1218.1	1401.6	1510.3	1774.1	1849.1	1673.2	1691.3	1577.6
75°	6579.2	1900.8	1006.0	944.0	1088.7	1262.0	1577.6	1693.9	1531.1	1414.6	1373.2
77.5°	2050.8	1161.2	853.4	760.4	853.4	1019.0	1318.9	1484.5	1362.9	1184.5	1168.9
80°	1101.7	853.4	656.8	610.3	674.9	799.1	1037.1	1238.8	1171.5	1062.9	949.1
82.5°	726.7	553.4	486.2	473.2	514.6	610.3	770.7	1026.7	1026.7	910.3	662.1
85°	375.0	338.8	333.6	333.6	359.5	406.0	525.0	791.4	843.1	481.0	398.2
87.5°	186.2	194.0	181.1	188.8	201.7	199.2	250.8	398.2	475.9	292.3	243.1
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)