

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: P193246

Luminaire Tested: **GLEON-AF-08-LED-E1-T3R-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193246
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-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 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: 51749.6 lumens
Efficiency: N/A
Efficacy: 101.3 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

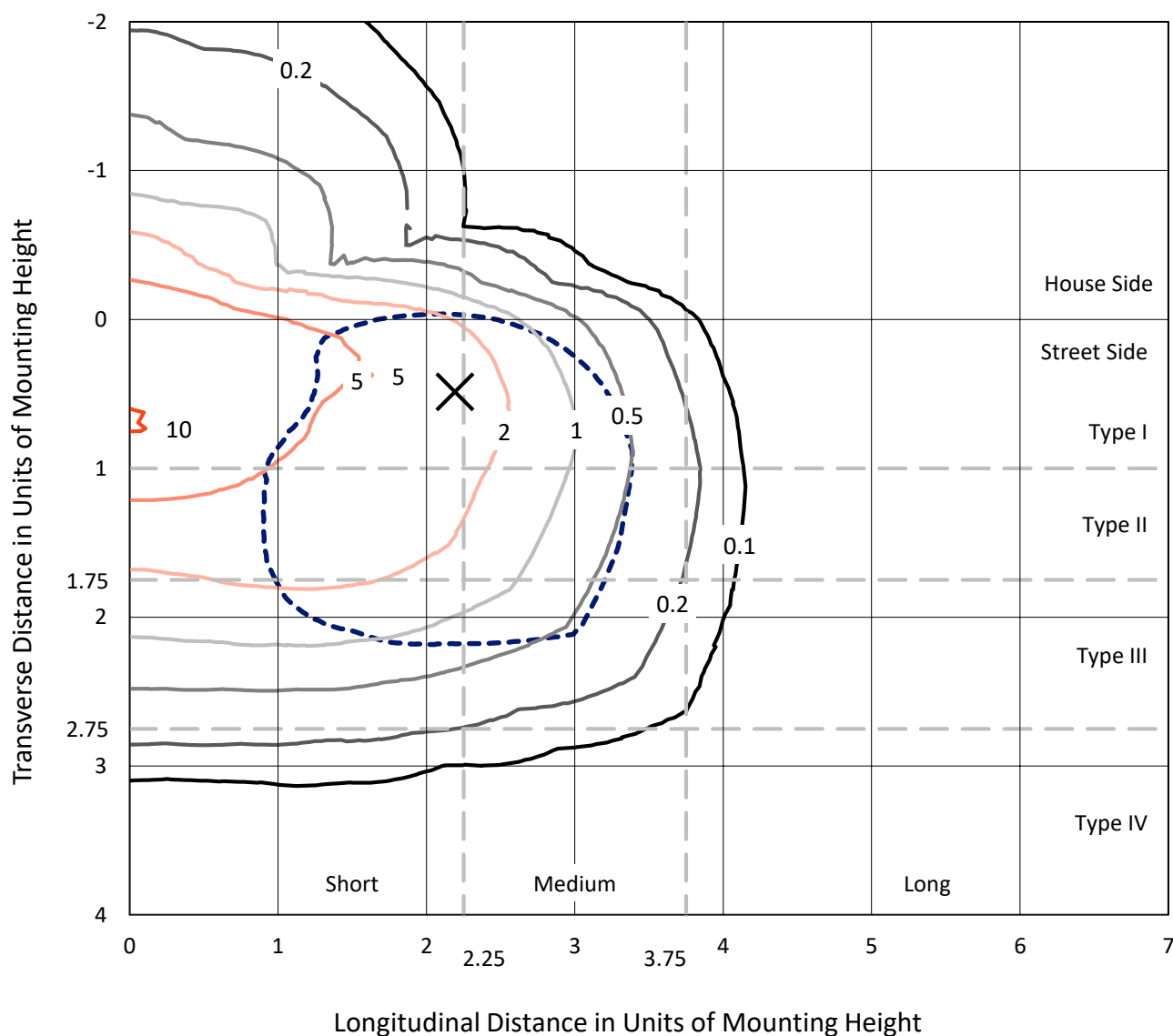


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

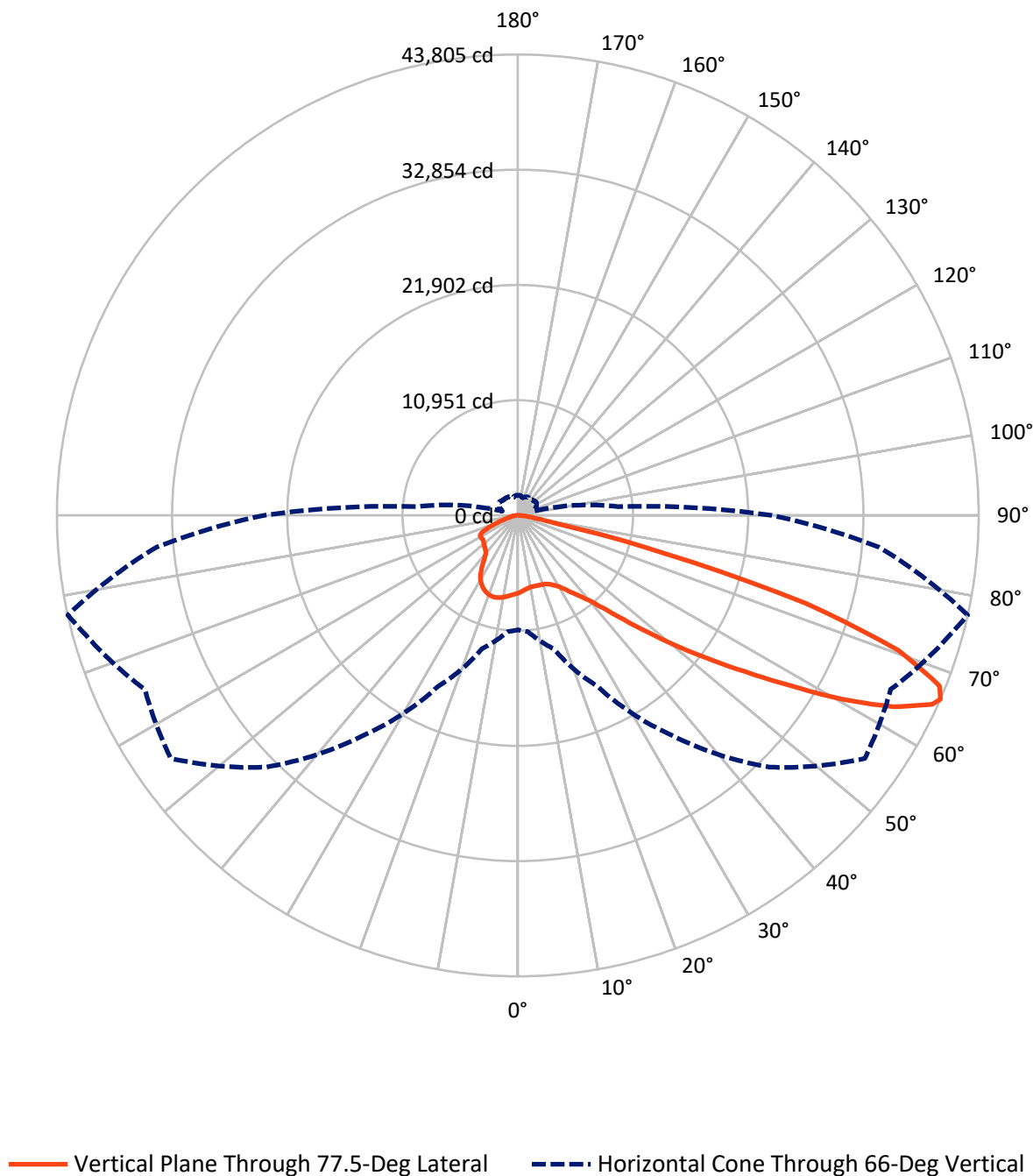


Based on 30 foot mounting height. Maximum calculated value = 10.1 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8841.1	0.0	8841.1
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	42908.5	0.0	42908.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	51749.6	0.0	51749.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	658.9	1.3
10°-20°	1858.7	3.6
20°-30°	3172.2	6.1
30°-40°	5078.2	9.8
40°-50°	7845.3	15.2
50°-60°	11127.3	21.5
60°-70°	14885.4	28.8
70°-80°	6464.4	12.5
80°-90°	659.2	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°	51749.6	100.0
0°-180°	51749.6	100.0

Coefficient of Utilization



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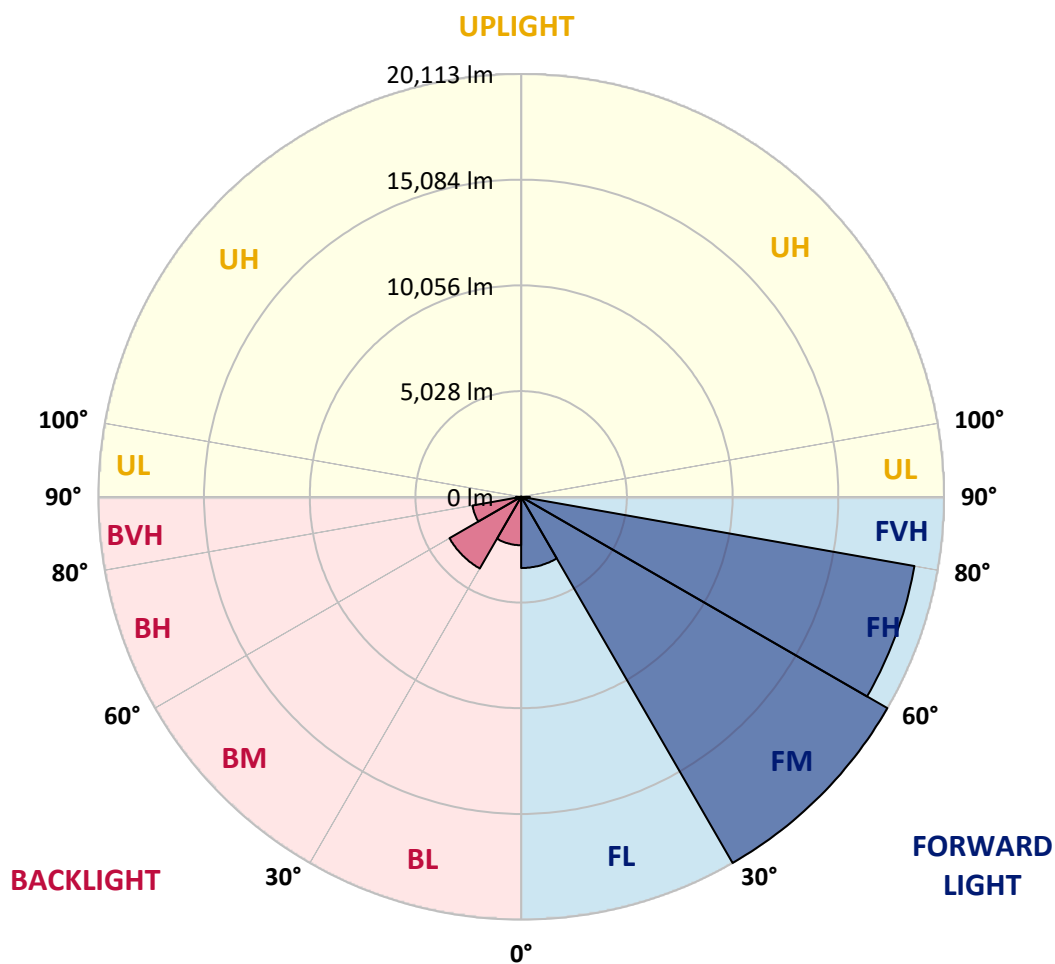
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3387.2	6.5			
FM	(30°-60°)	20112.6	38.9			
FH	(60°-80°)	18995.2	36.7			G5
FVH	(80°-90°)	413.4	0.8			G3/500
BL	(0°-30°)	2302.6	4.4	B3/2500		
BM	(30°-60°)	3938.2	7.6	B3/5000		
BH	(60°-80°)	2354.5	4.5	B3/2500		G3/2500
BVH	(80°-90°)	245.8	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°	7374.6	7374.6	7374.6	7374.6	7374.6	7374.6	7374.6	7374.6	7374.6	7374.6	7374.6
2.5°	6523.7	6567.7	6604.2	6638.6	6707.0	6819.5	6949.1	7054.3	7205.8	7235.1	7315.9
5°	5924.6	5924.6	5954.0	6005.3	6098.2	6266.9	6442.9	6677.7	7007.8	7086.0	7301.2
7.5°	5633.6	5636.0	5653.2	5697.3	5777.8	5931.9	6125.1	6401.4	6848.8	6978.5	7345.2
10°	5741.2	5716.8	5680.1	5658.1	5670.3	5760.8	5944.1	6252.3	6751.0	6917.3	7443.1
12.5°	6342.7	6296.3	6169.1	6000.4	5839.1	5773.0	5880.6	6181.4	6709.5	6902.7	7572.6
15°	7325.7	7306.0	7069.0	6719.2	6328.1	6000.4	5927.0	6154.5	6714.4	6919.7	7726.7
17.5°	8558.1	8531.1	8218.2	7709.6	7071.4	6433.1	6090.8	6176.4	6731.5	6949.1	7875.9
20°	9802.6	9719.4	9382.0	8775.6	7956.5	7022.4	6362.2	6232.7	6753.6	6980.9	8032.3
22.5°	10731.8	10663.2	10360.1	9770.8	8826.9	7704.6	6726.5	6330.5	6824.5	7073.8	8225.5
25°	11548.3	11553.3	11252.6	10682.9	9707.2	8428.4	7196.1	6592.1	7005.3	7264.5	8489.6
27.5°	12558.3	12499.6	12218.4	11653.6	10577.7	9159.5	7763.3	6951.5	7274.3	7535.9	8836.8
30°	13766.1	13724.6	13399.4	12758.7	11543.6	9944.4	8411.4	7369.6	7621.5	7892.9	9291.5
32.5°	15186.8	15167.3	14829.8	14005.8	12658.6	10868.7	9171.8	7922.3	8140.0	8421.0	9944.4
35°	16854.4	16856.8	16458.3	15468.0	13878.6	11944.6	10034.9	8633.7	8770.8	9064.1	10721.9
37.5°	17881.4	18006.0	17856.9	16847.0	15260.1	13147.5	11154.8	9577.6	9489.6	9785.5	11555.8
40°	18101.4	18253.0	18725.0	18211.5	16805.5	14472.8	12147.5	10484.7	10374.7	10736.6	12629.2
42.5°	17793.3	18003.6	19001.2	19363.2	18446.1	16106.1	13482.5	11832.0	11692.7	12179.2	13964.2
45°	17610.0	17766.4	18920.5	19962.2	19869.3	17952.3	15181.9	13524.1	13472.8	14111.0	15504.7
47.5°	17292.0	17433.9	18544.0	20101.5	20705.5	19644.3	17223.6	15592.7	15692.9	16529.2	17243.2
50°	17463.2	17521.9	18123.4	19747.0	20947.5	20884.1	19505.0	17988.9	18331.3	19375.4	19211.5
52.5°	17438.8	17590.4	18074.5	19165.0	20979.3	21649.2	21752.0	20661.5	21382.8	22580.9	21395.0
55°	14098.7	14377.4	17499.9	19018.3	21091.9	22400.0	23752.1	23478.2	24823.1	26219.3	23859.7
57.5°	13462.9	13639.1	15370.1	19326.5	21688.4	23832.8	25977.3	26578.7	28828.3	30449.4	26862.4
60°	13338.3	13555.9	15348.2	19702.9	22898.8	26167.9	29275.7	30332.0	33701.4	35476.6	30344.2
62.5°	12949.5	13184.2	15203.9	19654.1	24617.7	29398.0	33498.5	34322.4	38322.8	40049.0	33256.5
65°	11717.2	11937.2	14027.8	18864.2	25776.8	32845.6	38496.4	37980.4	41971.0	43269.3	34708.8
66°	10873.6	11088.7	13101.1	17935.1	25507.7	33823.7	40266.6	39112.5	42787.6	43804.8	34425.2
67.5°	9330.6	9499.4	11301.4	15854.3	24077.4	34097.5	41755.7	39963.4	42873.3	43232.6	32804.1
70°	5895.2	5944.1	7345.2	10944.5	18226.1	29571.6	39489.1	37850.8	39337.4	38364.3	27500.5
72.5°	2557.6	2540.5	3525.9	5567.7	10318.6	19842.3	31943.4	31231.9	30857.8	28637.5	19250.6
75°	1423.1	1442.7	1831.4	2584.5	4193.4	9746.4	20896.2	19996.4	16883.8	14406.8	8729.2
77.5°	1141.9	1168.7	1518.4	1833.8	1882.7	3398.7	9778.1	7956.5	4790.0	3843.7	2425.5
80°	902.3	951.2	1325.4	1428.0	1269.0	1401.0	3159.1	2525.8	1895.0	1738.6	1256.8
82.5°	714.0	748.2	1137.0	1080.8	887.6	943.8	1513.6	1474.5	1232.3	1122.3	726.2
85°	513.5	577.1	934.0	814.2	582.0	635.8	1004.9	963.3	706.7	577.1	320.3
87.5°	210.4	273.8	660.2	540.4	325.1	295.9	501.3	471.9	335.0	244.5	159.0
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°	7374.6	7374.6	7374.6	7374.6	7374.6	7374.6	7374.6	7374.6	7374.6	7374.6	7374.6
2.5°	7367.3	7426.0	7501.7	7548.1	7572.6	7589.7	7616.7	7614.2	7621.5	7624.0	7633.7
5°	7416.1	7514.0	7624.0	7653.3	7653.3	7626.4	7599.5	7555.5	7538.4	7533.5	7538.4
7.5°	7543.3	7650.9	7746.3	7711.9	7638.7	7531.0	7391.7	7269.4	7203.4	7181.4	7176.4
10°	7704.6	7834.2	7873.3	7743.7	7528.6	7269.4	6993.1	6792.6	6677.7	6645.9	6636.1
12.5°	7900.2	8022.5	7968.8	7694.9	7296.4	6878.2	6496.8	6176.4	5936.8	5861.0	5856.1
15°	8115.4	8210.9	8022.5	7543.3	6949.1	6332.8	5653.2	5100.6	4802.3	4706.9	4699.6
17.5°	8315.9	8364.9	7990.7	7279.2	6438.1	5440.4	4538.2	4112.7	4010.1	4034.5	4039.5
20°	8487.1	8487.1	7883.2	6900.2	5633.6	4264.3	3694.6	3687.3	3760.6	3834.0	3848.6
22.5°	8675.4	8562.8	7694.9	6364.7	4494.2	3489.2	3406.0	3474.6	3557.7	3638.4	3650.6
25°	8907.7	8624.1	7433.2	5552.9	3533.2	3168.9	3200.6	3256.9	3298.5	3349.9	3357.2
27.5°	9166.9	8702.3	7088.5	4435.5	3066.3	2968.3	2992.8	3012.4	3007.6	3027.1	3032.0
30°	9477.3	8792.7	6616.5	3467.3	2873.1	2797.2	2753.3	2736.1	2736.1	2767.9	2780.1
32.5°	9893.1	8927.2	5939.3	2970.9	2780.1	2675.0	2533.1	2469.6	2494.1	2601.7	2626.0
35°	10350.3	9071.5	5022.3	2802.2	2760.6	2618.7	2398.7	2281.4	2283.7	2384.0	2415.8
37.5°	10849.1	9255.0	4017.4	2770.4	2804.5	2621.2	2327.8	2166.4	2100.4	2100.4	2112.6
40°	11487.3	9443.2	3252.0	2792.3	2897.4	2650.5	2291.0	2075.9	1890.0	1895.0	1904.7
42.5°	12318.7	9604.6	2841.3	2838.8	3010.0	2689.6	2288.7	1956.1	1794.7	1904.7	2005.0
45°	13242.9	9685.2	2660.4	2880.4	3100.4	2714.1	2249.5	1936.5	1806.9	2134.6	2325.4
47.5°	14306.5	9638.8	2560.1	2895.1	3122.4	2714.1	2205.5	1983.0	1892.6	2472.0	2694.6
50°	15472.9	9504.3	2462.2	2865.8	3115.1	2709.2	2247.1	2029.5	1924.4	2530.8	2684.7
52.5°	16844.6	9391.8	2359.6	2802.2	3063.7	2682.4	2296.0	2010.0	1824.1	2300.9	2408.5
55°	18409.5	9423.6	2244.6	2711.7	2983.1	2631.0	2278.9	1931.7	1718.9	2027.0	2093.1
57.5°	20409.6	9802.6	2107.7	2596.8	2873.1	2545.4	2217.8	1895.0	1687.2	1838.8	1877.8
60°	22642.1	10462.7	1936.5	2481.9	2736.1	2408.5	2171.3	1912.1	1701.8	1824.1	1843.6
62.5°	24280.2	10846.7	1789.8	2313.1	2550.3	2256.9	2112.6	1934.1	1740.9	1875.4	1870.5
65°	24725.3	10215.8	1606.4	2066.2	2298.5	2097.9	2039.3	1958.6	1758.1	1917.0	1895.0
66°	24101.8	9536.0	1525.8	1951.3	2171.3	2019.6	2002.6	1956.1	1750.8	1921.9	1885.2
67.5°	22588.3	8142.3	1386.4	1782.6	1968.3	1902.3	1943.9	1934.1	1731.2	1917.0	1865.6
70°	18421.7	5555.4	1185.9	1484.2	1638.3	1675.0	1831.4	1855.9	1667.7	1831.4	1718.9
72.5°	12871.3	3384.1	1049.0	1151.7	1325.4	1428.0	1677.3	1748.2	1582.0	1599.1	1491.5
75°	6220.4	1797.2	951.2	892.4	1029.4	1193.2	1491.5	1601.5	1447.5	1337.5	1298.3
77.5°	1939.1	1097.8	806.9	718.9	806.9	963.3	1246.9	1403.6	1288.6	1119.9	1105.1
80°	1041.7	806.9	621.0	577.1	638.2	755.5	980.5	1171.3	1107.7	1004.9	897.3
82.5°	687.1	523.3	459.7	447.4	486.5	577.1	728.6	970.8	970.8	860.8	625.9
85°	354.5	320.3	315.4	315.4	339.9	383.9	496.4	748.2	797.1	454.8	376.5
87.5°	176.0	183.3	171.2	178.5	190.7	188.3	237.2	376.5	449.9	276.3	229.9
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)