

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: P192835

Luminaire Tested: **GLEON-AF-07-LED-E1-SL2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192835
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
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-SL2-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39890.5 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 391
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



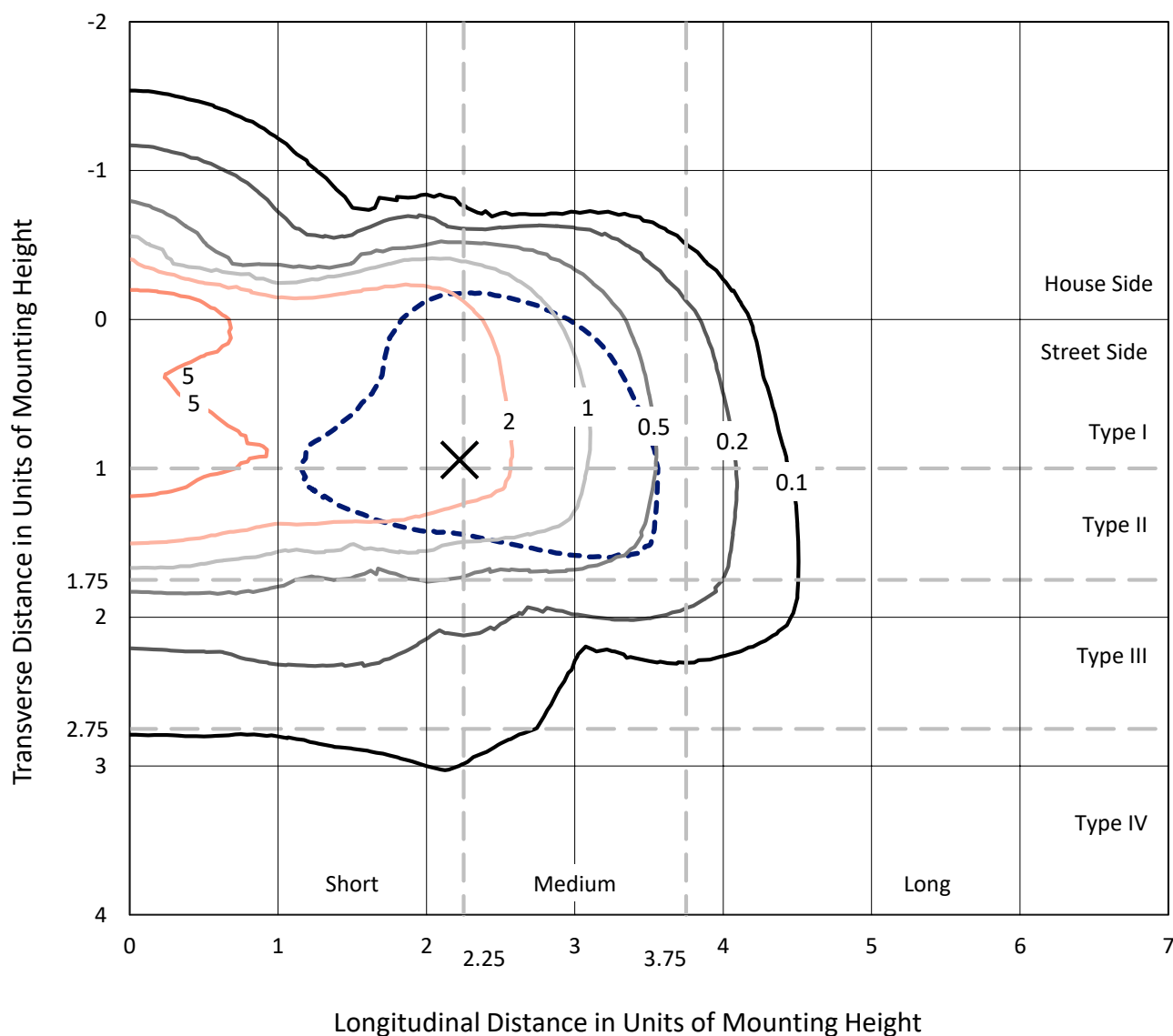
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

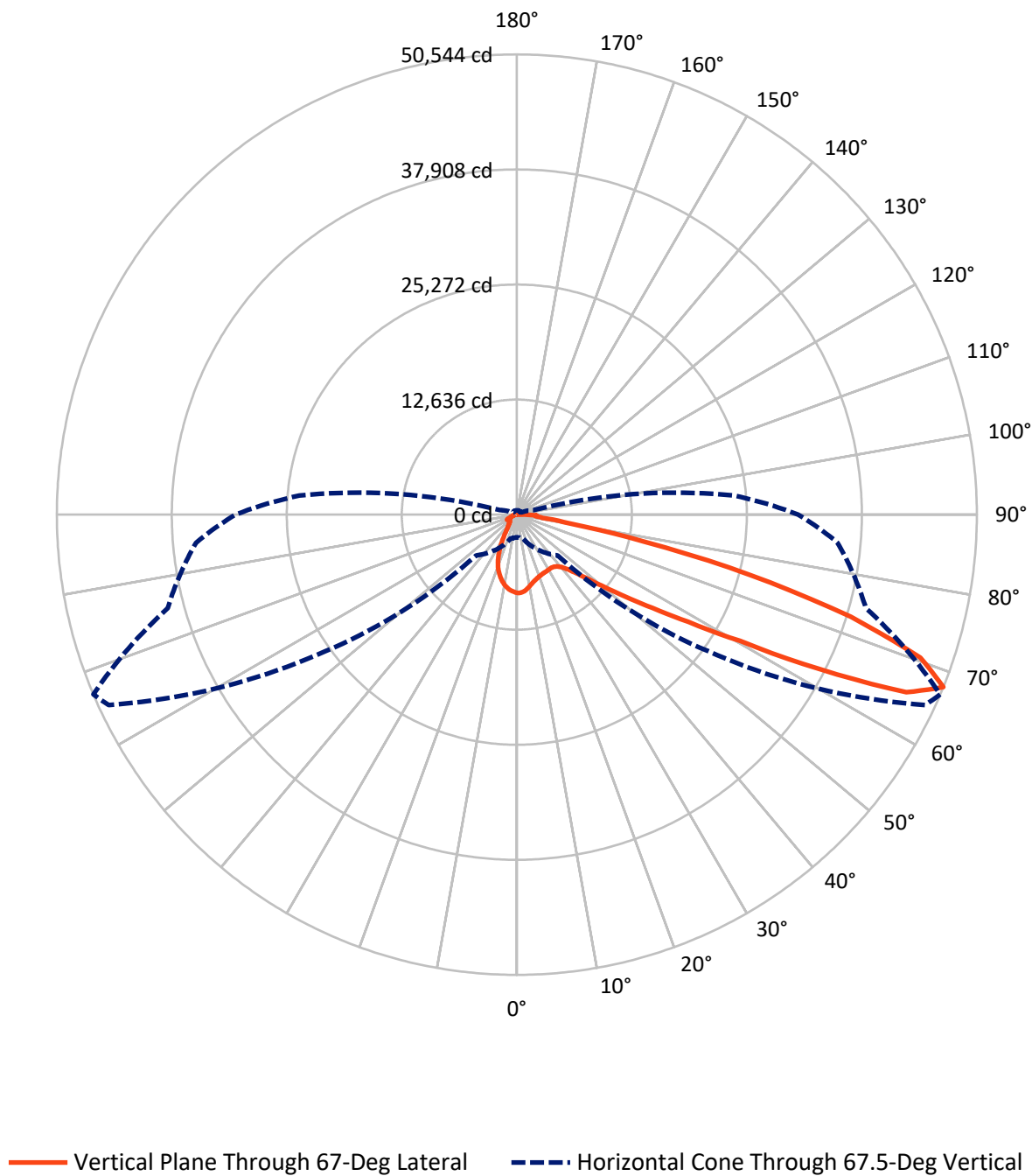


Based on 30 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6609.4	0.0	6609.4
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	33281.1	0.0	33281.1
	% Fixture	83.4	0.0	83.4
Total	Lumens	39890.5	0.0	39890.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	734.1	1.8
10°-20°	1698.5	4.3
20°-30°	2302.4	5.8
30°-40°	3273.1	8.2
40°-50°	5476.0	13.7
50°-60°	8663.0	21.7
60°-70°	11035.8	27.7
70°-80°	5780.5	14.5
80°-90°	927.1	2.3
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°	39890.5	100.0
0°-180°	39890.5	100.0

Coefficient of Utilization



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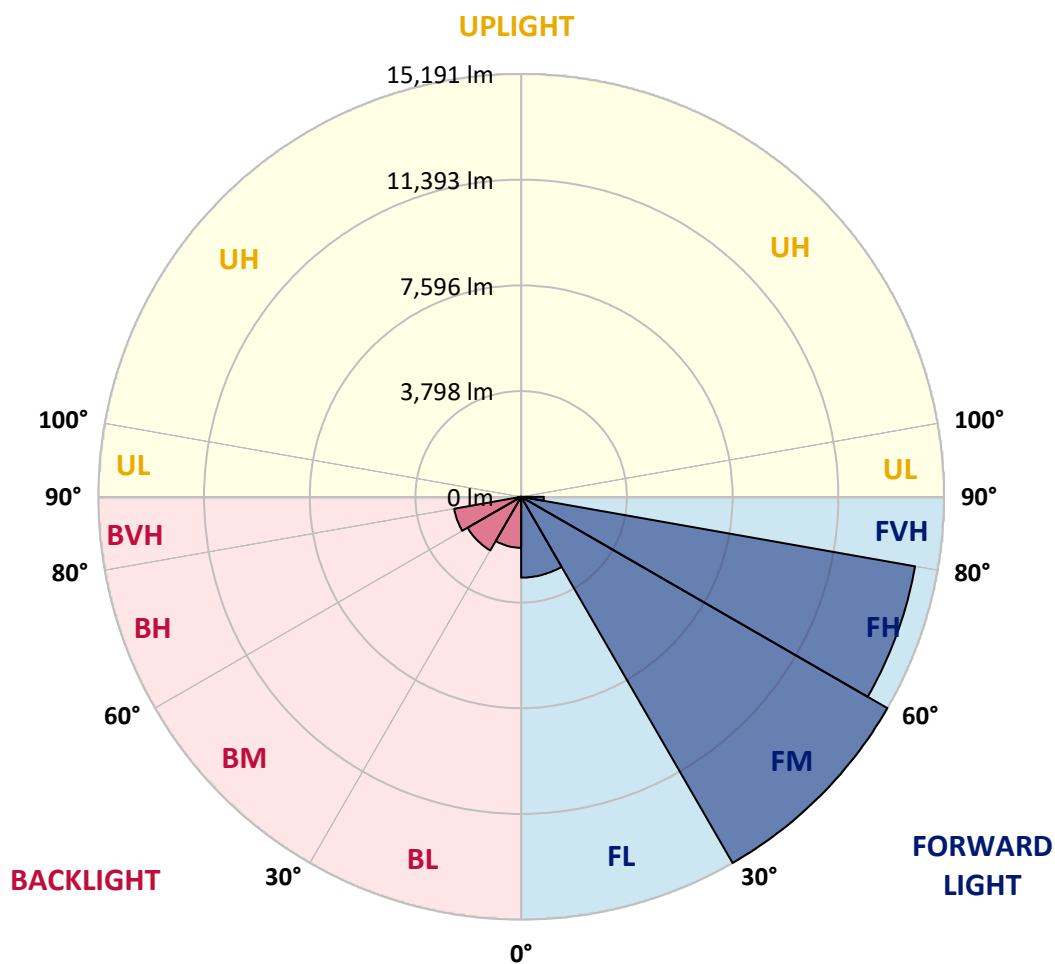
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2903.1	7.3			
FM	(30°-60°)	15191.2	38.1			
FH	(60°-80°)	14371.7	36.0			G5
FVH	(80°-90°)	815.2	2.0			G5
BL	(0°-30°)	1831.9	4.6	B3/2500		
BM	(30°-60°)	2221.0	5.6	B2/2500		
BH	(60°-80°)	2444.6	6.1	B3/2500		G3/2500
BVH	(80°-90°)	111.9	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8604.2	8604.2	8604.2	8604.2	8604.2	8604.2	8604.2	8604.2	8604.2	8604.2	8604.2
2.5°	8250.1	8264.0	8307.3	8334.9	8458.8	8511.9	8549.2	8586.5	8592.4	8610.1	8592.4
5°	7384.7	7414.3	7494.8	7585.4	7825.2	8014.1	8212.8	8419.4	8456.7	8590.5	8627.8
7.5°	6713.9	6706.0	6772.9	6881.0	7127.0	7388.5	7736.7	8147.9	8228.6	8529.6	8675.0
10°	6224.1	6218.2	6289.0	6401.1	6635.2	6883.0	7276.4	7839.1	7953.2	8433.1	8720.3
12.5°	5862.1	5864.1	5934.9	6058.9	6296.8	6546.7	6945.9	7540.1	7685.7	8321.0	8767.6
15°	5622.2	5637.9	5694.9	5826.7	6058.9	6308.6	6700.1	7315.8	7479.2	8232.4	8820.7
17.5°	5541.4	5567.0	5586.7	5683.1	5881.8	6131.6	6515.2	7150.6	7323.6	8171.5	8867.9
20°	5616.3	5645.8	5608.3	5641.8	5767.7	5988.0	6369.6	7020.8	7197.8	8102.6	8873.8
22.5°	5936.8	5964.4	5854.2	5757.9	5750.0	5883.7	6249.6	6918.4	7101.5	8051.6	8875.7
25°	6501.4	6519.2	6334.2	6110.0	5891.6	5846.4	6165.1	6847.6	7042.5	8006.3	8838.4
27.5°	7193.8	7207.7	6995.3	6664.7	6226.0	5934.9	6135.6	6806.3	7009.0	7966.9	8775.4
30°	8035.8	8100.7	7815.5	7398.4	6759.1	6196.5	6194.6	6784.7	6971.7	7900.1	8651.4
32.5°	8897.4	8925.0	8728.1	8305.4	7477.1	6656.8	6359.8	6800.4	6961.8	7819.3	8494.2
35°	9770.8	9806.2	9678.4	9338.1	8458.8	7331.6	6682.4	6892.8	7022.7	7791.9	8384.0
37.5°	10901.9	10949.1	10772.1	10378.6	9652.8	8246.3	7219.5	7125.1	7209.6	7870.6	8350.5
40°	12690.0	12668.4	12151.0	11564.9	10958.9	9416.7	7986.7	7518.4	7567.7	8124.3	8452.9
42.5°	14771.3	14718.2	13827.1	12906.5	12395.0	10833.0	9001.7	8201.0	8191.1	8624.0	8812.9
45°	16431.6	16388.4	15585.8	14450.6	14041.5	12446.2	10313.7	9218.1	9145.2	9416.7	9477.7
47.5°	17330.6	17332.6	16870.2	15943.7	15934.0	14495.9	11999.6	10689.5	10563.6	10691.4	10626.5
50°	17015.8	17057.1	17008.0	16712.9	17661.0	17182.9	14200.9	12741.2	12487.5	12613.3	12363.6
52.5°	15493.3	15546.4	15837.4	16289.9	18386.9	20430.8	17434.8	15290.7	14995.5	14950.3	14673.0
55°	12794.4	12859.3	13453.3	14682.8	17783.0	22612.3	22537.6	18540.3	18070.2	17643.3	17525.3
57.5°	8818.8	8926.9	9882.9	11708.4	15829.6	23271.3	28614.1	23173.1	22217.0	20725.8	20753.4
60°	4971.0	5096.8	6224.1	7882.4	11887.4	22555.3	33236.8	30189.8	28171.5	24335.6	24540.1
62.5°	3161.2	3296.9	4152.6	5476.5	7132.9	18699.7	35131.2	39944.8	37381.6	28785.2	28985.9
65°	2559.3	2618.3	3021.6	4520.5	5179.6	11265.8	33693.3	47980.6	47024.6	34432.9	33496.6
67.5°	2498.3	2518.0	2726.4	3794.6	4967.0	6332.2	26875.1	49483.5	50543.9	39706.8	35375.2
70°	2468.8	2537.6	3072.7	3621.5	4756.6	5340.8	16150.2	45364.3	47038.4	41085.9	32874.9
72.5°	1198.0	1194.1	1546.1	3275.3	5358.5	5539.5	8297.3	36705.0	38385.0	35595.5	27014.8
75°	965.9	883.3	843.9	1200.0	5151.9	5720.5	5287.7	25256.2	26471.9	23865.4	16606.7
77.5°	916.6	818.4	749.5	751.4	2177.6	6066.7	4479.2	13978.5	14332.6	10779.9	4550.0
80°	759.4	668.7	619.6	698.3	1054.4	5777.5	4843.1	6326.3	5805.1	2647.8	1514.7
82.5°	527.1	479.9	466.2	586.1	843.9	4117.2	5632.0	3399.3	2850.3	1325.9	934.3
85°	336.4	287.3	318.7	426.8	656.9	1900.2	5801.1	2649.7	2106.8	842.0	527.1
87.5°	155.3	125.8	157.4	236.1	428.9	655.0	5519.8	2976.3	2169.8	444.5	332.4
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°	8604.2	8604.2	8604.2	8604.2	8604.2	8604.2	8604.2	8604.2	8604.2	8604.2	8604.2
2.5°	8608.2	8570.9	8541.4	8486.2	8425.3	8366.3	8313.2	8246.3	8226.5	8208.8	8236.4
5°	8635.8	8598.3	8490.2	8321.0	8134.2	7959.1	7783.9	7634.5	7542.0	7491.0	7520.5
7.5°	8677.1	8624.0	8399.8	8088.9	7752.5	7445.7	7128.9	6875.1	6688.3	6599.8	6625.4
10°	8714.4	8612.2	8246.3	7780.1	7288.2	6831.9	6332.2	5919.1	5612.3	5451.0	5490.3
12.5°	8730.2	8566.9	8031.8	7394.4	6719.8	6050.9	5315.3	4697.5	4256.8	4095.6	4062.2
15°	8745.8	8515.7	7795.7	6955.9	6033.2	5087.0	4056.2	3316.6	2950.8	2870.0	2852.3
17.5°	8749.9	8427.2	7528.3	6479.7	5228.7	3940.2	2773.6	2303.5	2305.5	2435.3	2451.0
20°	8708.5	8295.4	7203.7	5887.7	4264.8	2724.5	1904.2	1823.5	2120.6	2445.1	2484.5
22.5°	8614.1	8120.3	6835.8	5197.3	3161.2	1794.0	1473.4	1561.9	1945.5	2342.8	2388.1
25°	8494.2	7907.9	6401.1	4396.6	2093.1	1282.6	1235.4	1343.6	1603.3	1868.8	1894.3
27.5°	8330.9	7656.2	5913.2	3479.9	1359.3	1056.3	1087.7	1160.7	1266.9	1384.9	1396.7
30°	8120.3	7355.2	5392.0	2537.6	1026.8	950.1	995.4	1034.6	1079.9	1146.9	1152.8
32.5°	7878.4	7066.1	4856.9	1752.7	910.7	895.1	930.5	950.1	985.5	1026.8	1030.8
35°	7675.8	6790.6	4302.2	1239.3	861.6	853.8	877.4	885.2	918.7	963.8	967.8
37.5°	7559.7	6566.4	3729.7	999.2	828.1	816.3	830.2	830.2	877.4	944.2	954.1
40°	7567.7	6442.4	3157.3	902.9	800.7	784.9	786.8	786.8	847.9	920.6	926.5
42.5°	7782.0	6473.8	2649.7	865.6	779.0	761.3	751.4	757.3	808.5	855.7	859.7
45°	8285.5	6696.2	2173.7	842.0	757.3	751.4	729.9	727.8	747.6	769.1	769.1
47.5°	9111.7	7134.8	1851.1	826.2	739.6	737.7	712.2	686.5	684.6	692.4	692.4
50°	10455.3	7890.2	1634.7	808.5	727.8	712.2	682.7	643.2	629.5	635.4	635.4
52.5°	12469.8	9237.8	1552.0	784.9	702.3	676.8	643.2	603.8	592.0	594.1	594.1
55°	15111.6	11307.1	1540.2	757.3	674.7	633.3	605.9	576.4	562.5	566.5	566.5
57.5°	18339.7	14169.4	1750.8	714.1	637.3	590.1	574.3	554.7	544.8	550.7	548.8
60°	22264.2	17914.8	2596.6	668.7	600.0	550.7	550.7	535.1	527.1	533.0	531.1
62.5°	26784.7	22217.0	3651.0	635.4	560.6	519.3	527.1	519.3	511.5	515.3	513.4
65°	30793.7	25020.2	3418.9	609.7	521.2	489.8	503.5	499.7	493.8	497.6	495.7
67.5°	30909.8	23981.5	1919.9	582.3	483.9	460.3	479.9	478.0	474.0	478.0	476.1
70°	27585.2	20249.8	1081.8	531.1	444.5	424.9	452.5	450.4	446.6	454.4	452.5
72.5°	22100.9	14694.6	790.8	468.1	405.3	387.6	419.0	417.1	417.1	428.9	423.0
75°	12717.6	7561.8	631.4	401.3	364.0	350.1	377.7	379.6	383.6	399.4	387.6
77.5°	3625.4	2356.6	515.3	340.4	312.8	306.9	334.5	338.3	340.4	358.1	342.3
80°	1347.5	1085.8	424.9	285.2	255.7	257.8	283.3	289.2	291.1	308.8	289.2
82.5°	859.7	716.0	344.2	220.2	200.6	198.7	230.2	238.0	238.0	240.1	228.3
85°	501.6	428.9	259.7	159.3	141.6	135.7	171.1	184.8	178.9	175.1	167.1
87.5°	336.4	295.1	159.3	88.5	76.7	72.7	100.3	110.2	106.2	100.3	94.4
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)