

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: P192825

Luminaire Tested: **GLEON-AF-07-LED-E1-SL2-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192825
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-SL2-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA 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: 32229.3 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 295
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



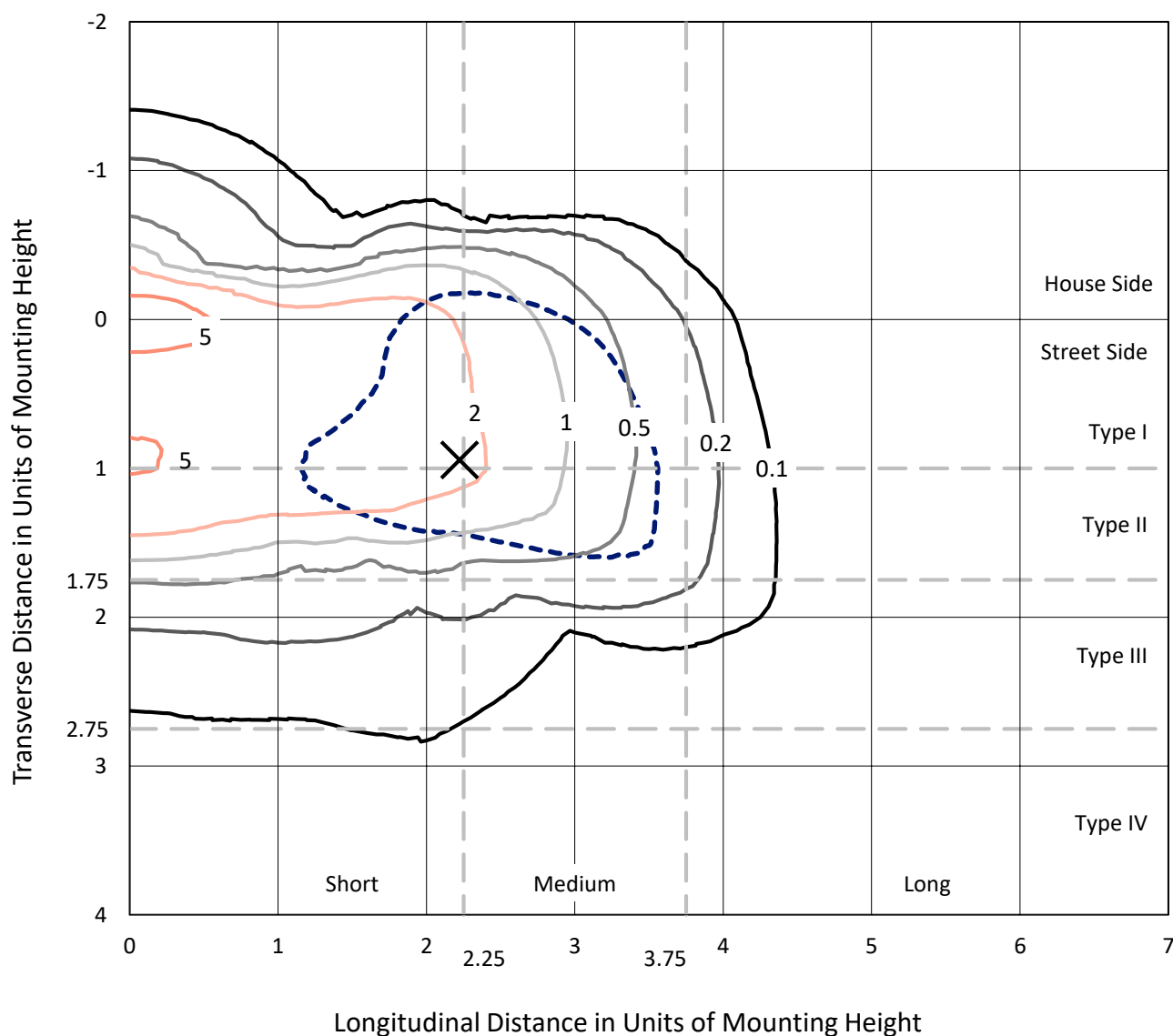
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

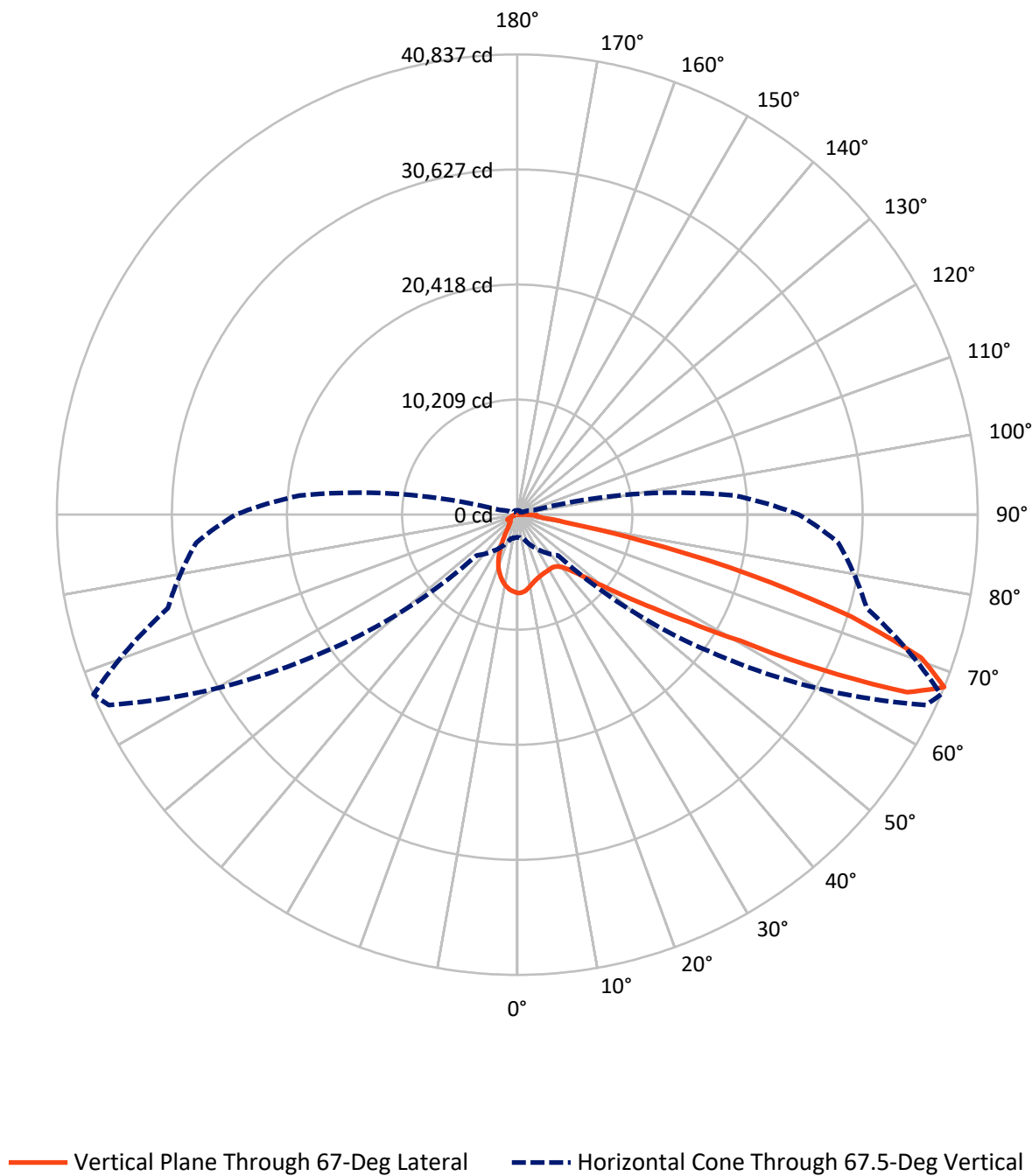


Based on 30 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5340.0	0.0	5340.0
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	26889.3	0.0	26889.3
	% Fixture	83.4	0.0	83.4
Total	Lumens	32229.3	0.0	32229.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	593.1	1.8
10°-20°	1372.3	4.3
20°-30°	1860.2	5.8
30°-40°	2644.5	8.2
40°-50°	4424.3	13.7
50°-60°	6999.2	21.7
60°-70°	8916.3	27.7
70°-80°	4670.3	14.5
80°-90°	749.0	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°	32229.3	100.0
0°-180°	32229.3	100.0

Coefficient of Utilization



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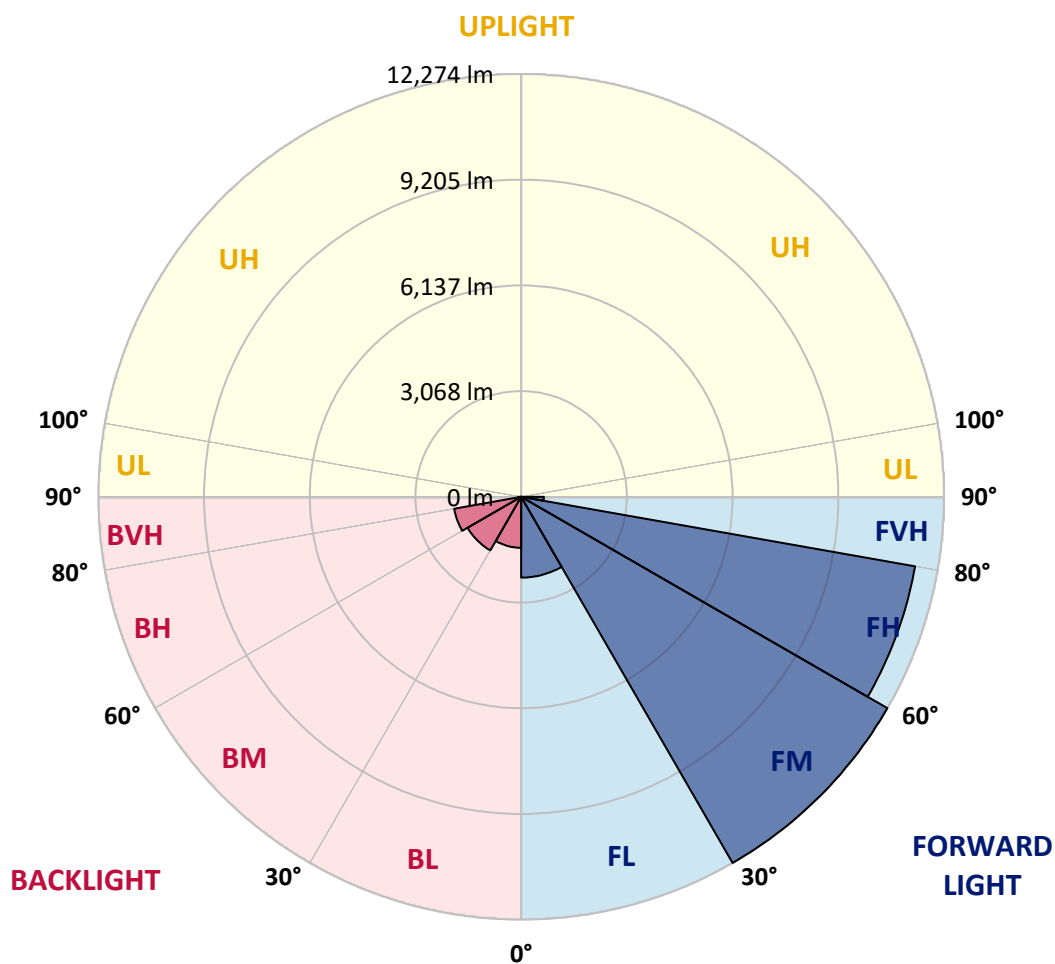
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2345.5	7.3			
FM	(30°-60°)	12273.6	38.1			
FH	(60°-80°)	11611.5	36.0			G4/12000
FVH	(80°-90°)	658.6	2.0			G4/750
BL	(0°-30°)	1480.1	4.6	B3/2500		
BM	(30°-60°)	1794.4	5.6	B2/2500		
BH	(60°-80°)	1975.1	6.1	B3/2500		G3/2500
BVH	(80°-90°)	90.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6951.7	6951.7	6951.7	6951.7	6951.7	6951.7	6951.7	6951.7	6951.7	6951.7	6951.7
2.5°	6665.7	6676.9	6711.8	6734.0	6834.1	6877.1	6907.3	6937.5	6942.3	6956.5	6942.3
5°	5966.4	5990.2	6055.3	6128.5	6322.4	6475.0	6635.6	6802.4	6832.5	6940.7	6970.8
7.5°	5424.4	5418.0	5472.1	5559.5	5758.2	5969.6	6250.8	6583.1	6648.2	6891.4	7009.0
10°	5028.6	5024.0	5081.1	5171.7	5360.8	5561.1	5879.0	6333.5	6425.7	6813.5	7045.6
12.5°	4736.3	4737.8	4795.1	4895.2	5087.4	5289.3	5612.0	6092.0	6209.5	6722.9	7083.8
15°	4542.4	4555.0	4601.1	4707.7	4895.2	5097.1	5413.2	5910.7	6042.7	6651.3	7126.7
17.5°	4477.2	4497.8	4513.7	4591.6	4752.1	4954.0	5263.9	5777.3	5917.2	6602.1	7164.7
20°	4537.5	4561.5	4531.2	4558.2	4659.9	4838.0	5146.3	5672.4	5815.5	6546.5	7169.5
22.5°	4796.6	4818.9	4729.9	4652.0	4645.6	4753.8	5049.3	5589.7	5737.5	6505.2	7171.1
25°	5252.7	5267.1	5117.7	4936.5	4760.1	4723.5	4981.0	5532.5	5689.9	6468.5	7140.8
27.5°	5812.3	5823.3	5651.7	5384.8	5030.3	4795.1	4957.2	5499.1	5662.8	6436.8	7090.1
30°	6492.5	6544.9	6314.4	5977.5	5461.0	5006.5	5004.8	5481.6	5632.7	6382.8	6990.0
32.5°	7188.6	7210.9	7051.9	6710.1	6041.1	5378.3	5138.4	5494.3	5624.6	6317.6	6862.8
35°	7894.3	7922.8	7819.5	7544.6	6834.1	5923.5	5399.0	5569.1	5674.0	6295.4	6773.7
37.5°	8808.2	8846.2	8703.3	8385.3	7798.9	6662.5	5833.0	5756.6	5824.9	6359.0	6746.8
40°	10252.9	10235.4	9817.4	9343.8	8854.3	7608.2	6452.8	6074.5	6114.1	6564.0	6829.4
42.5°	11934.4	11891.4	11171.4	10427.7	10014.4	8752.5	7272.9	6625.9	6618.1	6967.7	7120.2
45°	13275.8	13240.8	12592.3	11675.3	11344.7	10055.7	8332.8	7447.6	7388.8	7608.2	7657.4
47.5°	14002.1	14003.6	13630.2	12881.6	12873.7	11711.8	9695.0	8636.5	8534.8	8638.0	8585.6
50°	13747.8	13781.2	13741.4	13503.1	14269.1	13882.9	11473.5	10294.2	10089.1	10190.8	9989.0
52.5°	12517.7	12560.6	12795.8	13161.4	14855.6	16506.9	14086.4	12354.0	12115.5	12079.0	11854.8
55°	10337.1	10389.6	10869.5	11862.9	14367.7	18269.5	18209.0	14979.6	14599.7	14254.8	14159.5
57.5°	7125.1	7212.4	7984.8	9459.7	12789.5	18801.9	23118.6	18722.4	17949.9	16745.3	16767.6
60°	4016.3	4118.0	5028.6	6368.5	9604.4	18223.4	26853.5	24391.6	22761.0	19661.8	19827.1
62.5°	2554.1	2663.7	3355.2	4424.8	5763.0	15108.3	28384.0	32273.2	30202.2	23256.8	23418.9
65°	2067.7	2115.4	2441.2	3652.3	4184.7	9102.2	27222.3	38765.6	37993.2	27819.8	27063.3
67.5°	2018.4	2034.4	2202.7	3065.9	4013.1	5116.1	21713.6	39979.9	40836.5	32080.8	28581.1
70°	1994.6	2050.2	2482.6	2926.0	3842.9	4315.0	13048.5	36651.8	38004.3	33195.0	26561.0
72.5°	967.9	964.8	1249.3	2646.3	4329.4	4475.6	6703.8	29655.4	31012.8	28759.1	21826.4
75°	780.3	713.6	681.8	969.4	4162.4	4621.7	4272.1	20405.6	21387.7	19281.8	13417.2
77.5°	740.7	661.1	605.6	607.2	1759.4	4901.5	3618.8	11293.9	11580.0	8709.6	3676.1
80°	613.5	540.4	500.6	564.3	851.9	4667.9	3913.0	5111.3	4690.2	2139.3	1223.8
82.5°	425.9	387.8	376.7	473.6	681.8	3326.5	4550.3	2746.3	2302.9	1071.2	755.0
85°	271.7	232.0	257.6	344.9	530.9	1535.3	4687.0	2140.8	1702.2	680.2	425.9
87.5°	125.5	101.7	127.2	190.7	346.5	529.3	4459.8	2404.7	1753.1	359.3	268.6
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°	6951.7	6951.7	6951.7	6951.7	6951.7	6951.7	6951.7	6951.7	6951.7	6951.7	6951.7
2.5°	6955.0	6924.8	6901.0	6856.4	6807.2	6759.5	6716.6	6662.5	6646.7	6632.4	6654.6
5°	6977.2	6947.0	6859.7	6722.9	6572.0	6430.5	6289.1	6168.2	6093.5	6052.2	6076.0
7.5°	7010.6	6967.7	6786.5	6535.4	6263.7	6015.7	5759.8	5554.7	5403.8	5332.3	5352.9
10°	7040.7	6958.1	6662.5	6285.8	5888.5	5519.8	5116.1	4782.3	4534.4	4404.0	4435.8
12.5°	7053.4	6921.6	6489.2	5974.3	5429.2	4888.8	4294.4	3795.3	3439.4	3309.0	3282.0
15°	7066.3	6880.3	6298.6	5619.9	4874.5	4110.0	3277.2	2679.6	2384.0	2318.8	2304.5
17.5°	7069.4	6808.7	6082.5	5235.2	4224.5	3183.5	2241.0	1861.1	1862.8	1967.6	1980.4
20°	7036.0	6702.3	5820.1	4756.9	3445.7	2201.2	1538.5	1473.4	1713.3	1975.5	2007.3
22.5°	6959.7	6560.8	5522.9	4199.1	2554.1	1449.5	1190.4	1262.0	1571.9	1892.9	1929.4
25°	6862.8	6389.2	5171.7	3552.1	1691.0	1036.3	998.1	1085.5	1295.3	1509.9	1530.5
27.5°	6730.8	6185.7	4777.6	2811.6	1098.3	853.5	878.9	937.7	1023.5	1119.0	1128.4
30°	6560.8	5942.5	4356.3	2050.2	829.6	767.6	804.2	836.0	872.6	926.6	931.3
32.5°	6365.3	5708.9	3924.0	1416.1	735.9	723.2	751.8	767.6	796.3	829.6	832.8
35°	6201.7	5486.5	3475.9	1001.3	696.1	689.8	708.9	715.2	742.2	778.8	782.0
37.5°	6107.8	5305.2	3013.4	807.4	669.1	659.6	670.8	670.8	708.9	762.8	770.9
40°	6114.1	5205.1	2550.8	729.6	646.9	634.1	635.8	635.8	685.0	743.8	748.5
42.5°	6287.5	5230.6	2140.8	699.3	629.4	615.1	607.2	611.9	653.3	691.4	694.6
45°	6694.4	5410.1	1756.3	680.2	611.9	607.2	589.7	588.1	603.9	621.4	621.4
47.5°	7361.8	5764.5	1495.5	667.6	597.5	596.0	575.4	554.7	553.1	559.4	559.4
50°	8447.4	6374.8	1320.7	653.3	588.1	575.4	551.5	519.7	508.6	513.4	513.4
52.5°	10074.8	7463.5	1254.0	634.1	567.4	546.8	519.7	488.0	478.4	479.9	479.9
55°	12209.2	9135.5	1244.5	611.9	545.1	511.8	489.5	465.7	454.5	457.7	457.7
57.5°	14817.4	11448.0	1414.5	576.9	514.9	476.8	464.2	448.2	440.2	445.0	443.4
60°	17988.1	14474.1	2097.9	540.4	484.8	445.0	445.0	432.3	425.9	430.7	429.2
62.5°	21640.4	17949.9	2949.8	513.4	453.0	419.5	425.9	419.5	413.2	416.4	414.8
65°	24879.5	20214.8	2762.3	492.6	421.2	395.7	406.9	403.7	398.9	402.1	400.6
67.5°	24973.3	19375.7	1551.2	470.5	390.9	371.9	387.8	386.2	383.1	386.2	384.6
70°	22287.4	16360.7	874.2	429.2	359.3	343.3	365.6	364.0	360.8	367.1	365.6
72.5°	17856.2	11872.3	638.9	378.2	327.4	313.1	338.4	336.9	336.9	346.5	341.8
75°	10275.1	6109.4	510.1	324.2	294.0	282.9	305.2	306.7	310.0	322.7	313.1
77.5°	2929.1	1904.1	416.4	275.0	252.7	247.9	270.2	273.3	275.0	289.2	276.5
80°	1088.7	877.4	343.3	230.4	206.6	208.2	228.9	233.6	235.2	249.5	233.6
82.5°	694.6	578.5	278.2	178.0	162.1	160.5	186.0	192.3	192.3	193.9	184.3
85°	405.3	346.5	209.8	128.7	114.4	109.7	138.3	149.3	144.7	141.5	135.1
87.5°	271.7	238.4	128.7	71.6	62.0	58.8	81.1	89.0	85.9	81.1	76.3
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)