

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: P191104

Luminaire Tested: **GLEON-AF-06-LED-E1-SL2-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191104
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-06-LED-E1-SL2-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1200mA 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: 39137.1 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

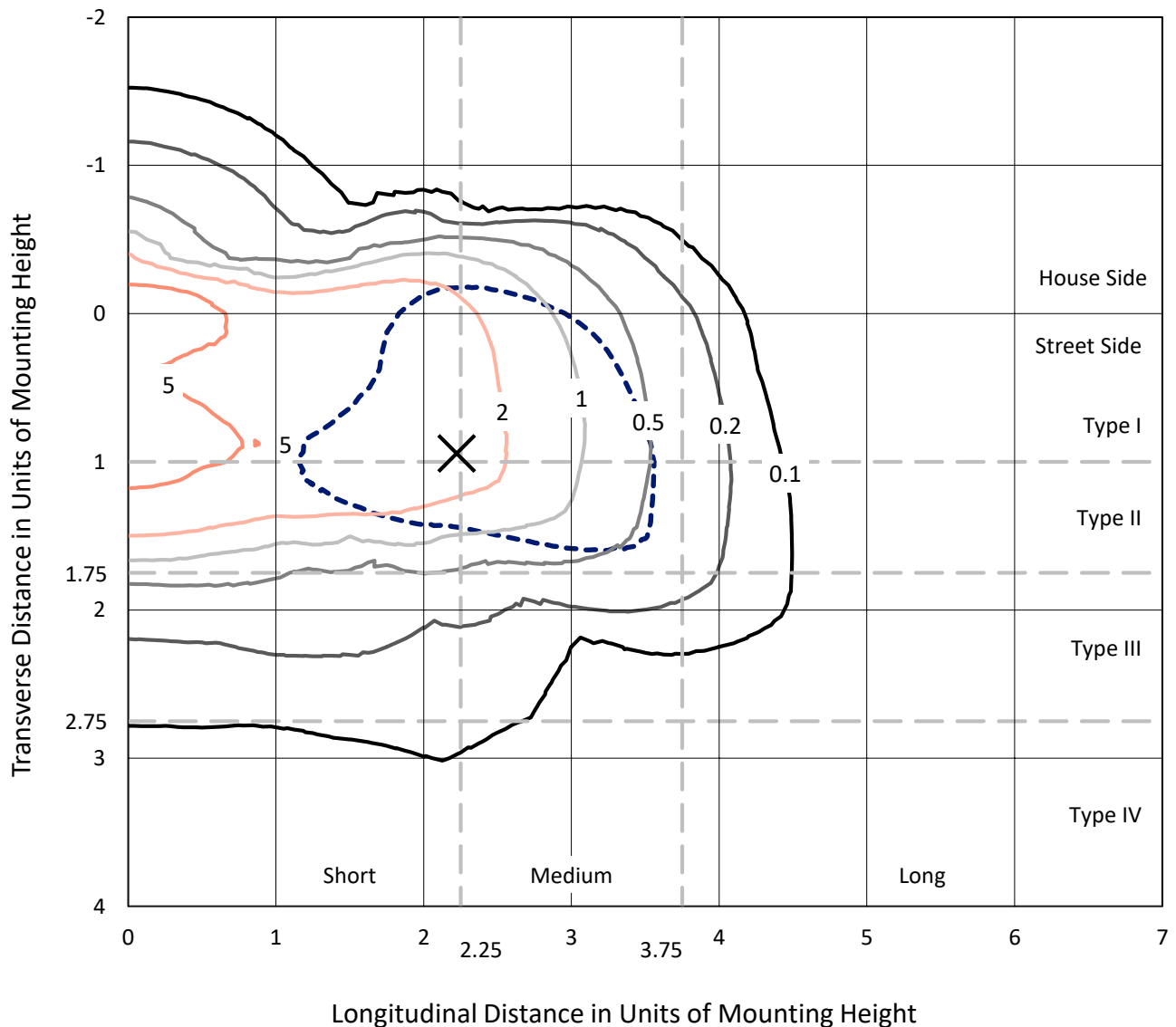
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

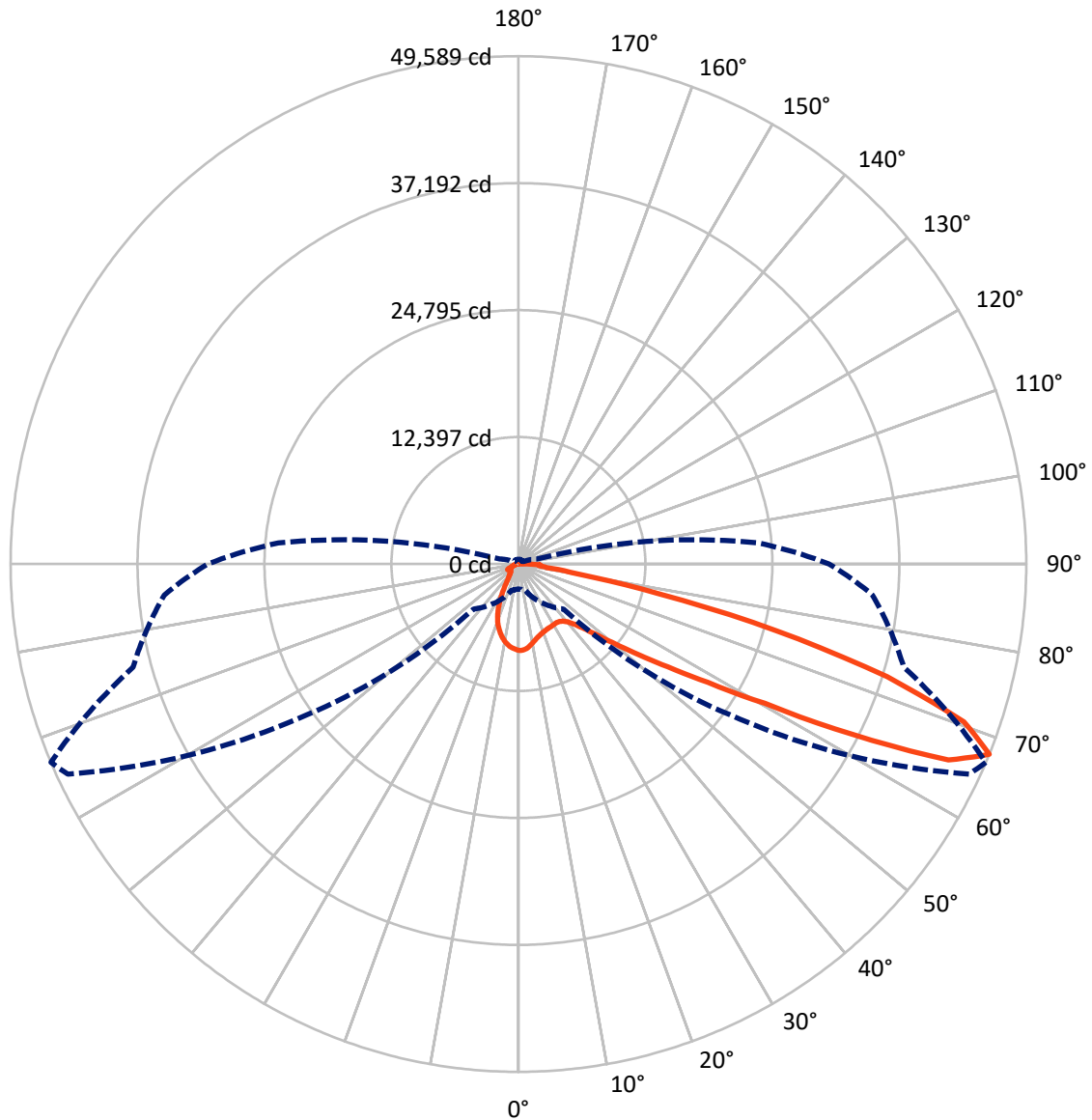
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6484.6	0.0	6484.6
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	32652.5	0.0	32652.5
	% Fixture	83.4	0.0	83.4
Total	Lumens	39137.1	0.0	39137.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	720.2	1.8
10°-20°	1666.5	4.3
20°-30°	2258.9	5.8
30°-40°	3211.3	8.2
40°-50°	5372.6	13.7
50°-60°	8499.4	21.7
60°-70°	10827.3	27.7
70°-80°	5671.3	14.5
80°-90°	909.6	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°	39137.1	100.0
0°-180°	39137.1	100.0



REPORT NUMBER: P191104

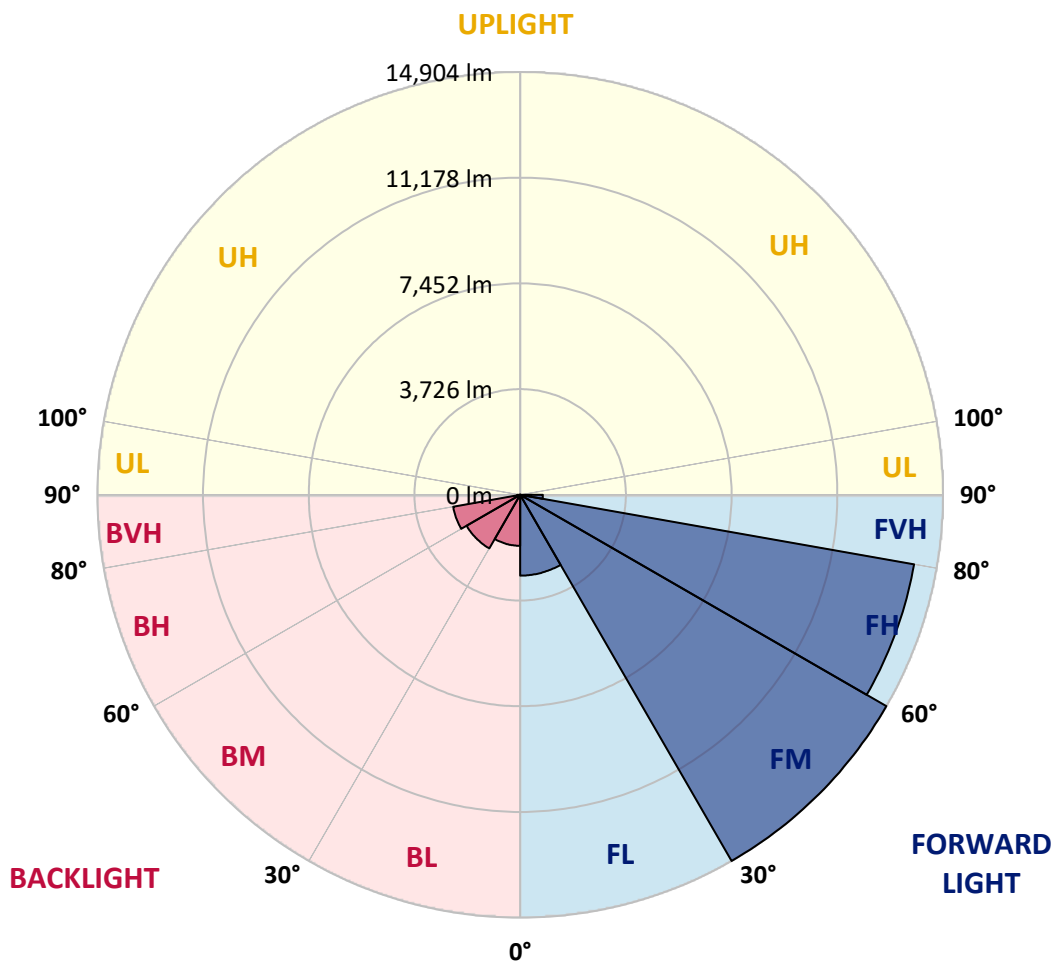
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2848.2	7.3			
FM	(30°-60°)	14904.2	38.1			
FH	(60°-80°)	14100.3	36.0			G5
FVH	(80°-90°)	799.8	2.0			G5
BL	(0°-30°)	1797.3	4.6	B3/2500		
BM	(30°-60°)	2179.0	5.6	B2/2500		
BH	(60°-80°)	2398.4	6.1	B3/2500		G3/2500
BVH	(80°-90°)	109.8	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°	8441.8	8441.8	8441.8	8441.8	8441.8	8441.8	8441.8	8441.8	8441.8	8441.8	8441.8
2.5°	8094.4	8107.9	8150.4	8177.4	8299.0	8351.1	8387.7	8424.4	8430.2	8447.5	8430.2
5°	7245.2	7274.1	7353.3	7442.1	7677.5	7862.8	8057.7	8260.3	8297.1	8428.3	8464.9
7.5°	6587.1	6579.3	6645.0	6751.1	6992.4	7249.0	7590.6	7994.1	8073.1	8368.5	8511.3
10°	6106.5	6100.7	6170.1	6280.2	6509.9	6753.0	7139.1	7691.1	7803.0	8273.8	8555.7
12.5°	5751.3	5753.3	5822.7	5944.4	6177.9	6423.0	6814.8	7397.7	7540.5	8163.9	8602.0
15°	5516.0	5531.3	5587.4	5716.7	5944.4	6189.5	6573.6	7177.6	7337.8	8077.0	8654.1
17.5°	5436.8	5461.8	5481.2	5575.7	5770.7	6015.8	6392.1	7015.5	7185.3	8017.2	8700.4
20°	5510.1	5539.1	5502.4	5535.2	5658.8	5874.9	6249.3	6888.1	7061.8	7949.7	8706.1
22.5°	5824.7	5851.7	5743.7	5649.0	5641.4	5772.6	6131.6	6787.8	6967.2	7899.4	8708.1
25°	6378.6	6396.0	6214.5	5994.6	5780.3	5735.9	6048.6	6718.3	6909.3	7855.0	8671.5
27.5°	7058.0	7071.5	6863.1	6538.8	6108.4	5822.7	6019.7	6677.7	6876.6	7816.5	8609.7
30°	7884.0	7947.7	7667.8	7258.7	6631.5	6079.5	6077.6	6656.5	6839.9	7750.8	8488.1
32.5°	8729.4	8756.4	8563.3	8148.4	7335.9	6531.1	6239.7	6672.0	6830.2	7671.7	8333.7
35°	9586.3	9621.0	9495.5	9161.6	8299.0	7193.1	6556.2	6762.7	6890.1	7644.7	8225.6
37.5°	10696.0	10742.3	10568.6	10182.7	9470.5	8090.5	7083.0	6990.4	7073.4	7721.8	8192.8
40°	12450.3	12429.2	11921.6	11346.4	10751.9	9238.9	7835.8	7376.4	7424.7	7970.8	8293.2
42.5°	14492.2	14440.2	13565.9	12662.7	12160.8	10628.5	8831.6	8046.1	8036.5	8461.0	8646.4
45°	16121.2	16078.7	15291.3	14177.7	13776.3	12211.1	10118.9	9043.9	8972.5	9238.9	9298.7
47.5°	17003.2	17005.1	16551.5	15642.6	15632.9	14222.1	11772.9	10487.6	10364.0	10489.4	10425.8
50°	16694.4	16735.0	16686.7	16397.2	17327.5	16858.4	13932.6	12500.6	12251.6	12375.0	12129.9
52.5°	15200.6	15252.7	15538.3	15982.3	18039.6	20044.8	17105.5	15001.8	14712.3	14667.9	14395.8
55°	12552.6	12616.4	13199.2	14405.4	17447.1	22185.2	22111.9	18190.1	17728.9	17310.1	17194.3
57.5°	8652.1	8758.3	9696.2	11487.3	15530.6	22831.8	28073.7	22735.3	21797.3	20334.3	20361.4
60°	4877.1	5000.6	6106.5	7733.5	11663.0	22129.3	32609.1	29619.5	27639.4	23875.9	24076.6
62.5°	3101.5	3234.7	4074.2	5373.0	6998.1	18346.5	34467.7	39190.4	36675.5	28241.5	28438.3
65°	2510.9	2568.8	2964.5	4435.1	5081.6	11053.1	33056.9	47074.4	46136.4	33782.5	32863.8
67.5°	2451.1	2470.4	2674.9	3722.9	4873.2	6212.6	26367.5	48548.8	49589.2	38956.8	34707.0
70°	2422.1	2489.7	3014.6	3553.1	4666.7	5240.0	15845.2	44507.5	46149.9	40309.8	32253.9
72.5°	1175.4	1171.5	1516.9	3213.4	5257.3	5434.8	8140.6	36011.7	37659.8	34923.1	26504.6
75°	947.7	866.5	828.0	1177.3	5054.6	5612.4	5187.8	24779.1	25971.9	23414.6	16292.9
77.5°	899.4	802.9	735.3	737.2	2136.5	5952.0	4394.6	13714.5	14061.9	10576.3	4464.1
80°	745.0	656.2	607.9	685.2	1034.5	5668.4	4751.6	6206.9	5695.4	2597.8	1486.0
82.5°	517.2	471.0	457.4	575.1	828.0	4039.4	5525.6	3335.0	2796.5	1300.8	916.8
85°	330.0	281.8	312.6	418.8	644.7	1864.3	5691.5	2599.7	2067.0	826.0	517.2
87.5°	152.4	123.5	154.4	231.6	420.7	642.7	5415.5	2920.1	2128.8	436.2	326.2
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°	8441.8	8441.8	8441.8	8441.8	8441.8	8441.8	8441.8	8441.8	8441.8	8441.8	8441.8
2.5°	8445.6	8409.0	8380.0	8326.0	8266.2	8208.3	8156.1	8090.5	8071.2	8053.8	8080.9
5°	8472.7	8436.0	8329.8	8163.9	7980.6	7808.7	7636.9	7490.3	7399.6	7349.4	7378.3
7.5°	8513.2	8461.0	8241.1	7936.2	7606.0	7305.0	6994.3	6745.3	6561.9	6475.1	6500.2
10°	8549.8	8449.5	8090.5	7633.2	7150.6	6702.9	6212.6	5807.3	5506.2	5348.0	5386.6
12.5°	8565.3	8405.1	7880.1	7254.9	6592.8	5936.7	5214.8	4608.8	4176.5	4018.3	3985.4
15°	8580.7	8355.0	7648.5	6824.4	5919.3	4991.0	3979.7	3254.0	2895.0	2815.9	2798.5
17.5°	8584.6	8268.1	7386.1	6357.3	5129.9	3865.7	2721.3	2260.0	2261.9	2389.3	2404.8
20°	8544.1	8138.8	7067.7	5776.5	4184.2	2673.1	1868.2	1789.1	2080.5	2399.0	2437.6
22.5°	8451.4	7966.9	6706.7	5099.0	3101.5	1760.2	1445.5	1532.4	1908.7	2298.6	2343.0
25°	8333.7	7758.6	6280.2	4313.5	2053.5	1258.3	1212.0	1318.2	1573.0	1833.5	1858.6
27.5°	8173.5	7511.5	5801.6	3414.2	1333.6	1036.5	1067.2	1138.6	1242.9	1358.7	1370.2
30°	7966.9	7216.2	5290.1	2489.7	1007.5	932.2	976.6	1015.2	1059.6	1125.1	1131.0
32.5°	7729.6	6932.5	4765.1	1719.6	893.5	878.1	912.9	932.2	966.9	1007.5	1011.3
35°	7530.9	6662.3	4220.9	1215.9	845.4	837.6	860.8	868.5	901.3	945.7	949.6
37.5°	7416.9	6442.3	3659.3	980.4	812.5	801.0	814.5	814.5	860.8	926.4	936.0
40°	7424.7	6320.7	3097.6	885.9	785.5	770.1	772.0	772.0	831.9	903.3	909.0
42.5°	7635.0	6351.6	2599.7	849.2	764.2	746.9	737.2	743.1	793.2	839.5	843.4
45°	8129.1	6569.7	2132.6	826.0	743.1	737.2	716.1	714.1	733.4	754.6	754.6
47.5°	8939.7	7000.1	1816.1	810.6	725.7	723.7	698.7	673.6	671.7	679.3	679.3
50°	10257.8	7741.2	1603.8	793.2	714.1	698.7	669.7	631.1	617.6	623.4	623.4
52.5°	12234.2	9063.2	1522.8	770.1	689.0	663.9	631.1	592.5	580.9	582.9	582.9
55°	14826.1	11093.6	1511.2	743.1	662.0	621.4	594.4	565.5	552.0	555.9	555.9
57.5°	17993.3	13901.7	1717.7	700.6	625.3	579.0	563.5	544.2	534.6	540.4	538.5
60°	21843.6	17576.4	2547.6	656.2	588.6	540.4	540.4	525.0	517.2	523.0	521.1
62.5°	26278.7	21797.3	3582.1	623.4	550.0	509.5	517.2	509.5	501.8	505.6	503.7
65°	30212.0	24547.5	3354.4	598.3	511.5	480.6	494.1	490.2	484.5	488.3	486.3
67.5°	30325.9	23528.5	1883.7	571.3	474.8	451.6	471.0	469.0	465.1	469.0	467.1
70°	27064.2	19867.3	1061.5	521.1	436.2	416.9	443.9	442.0	438.1	445.8	443.9
72.5°	21683.4	14417.1	775.8	459.3	397.6	380.2	411.1	409.2	409.2	420.7	414.9
75°	12477.3	7418.8	619.5	393.7	357.0	343.5	370.5	372.5	376.3	391.8	380.2
77.5°	3557.0	2312.2	505.6	333.9	306.9	301.1	328.1	331.9	333.9	351.3	335.8
80°	1322.1	1065.4	416.9	279.9	250.9	252.9	277.9	283.7	285.6	303.0	283.7
82.5°	843.4	702.6	337.8	216.1	196.8	195.0	225.8	233.5	233.5	235.5	223.9
85°	492.1	420.7	254.7	156.3	138.9	133.2	167.9	181.4	175.6	171.8	164.1
87.5°	330.0	289.5	156.3	86.8	75.3	71.4	98.4	108.1	104.2	98.4	92.7
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)