

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: P191876

Luminaire Tested: **GLEON-AF-08-LED-E1-SL2-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191876
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-08-LED-E1-SL2-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 615mA 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: 30791 lumens
Efficiency: N/A
Efficacy: 119.8 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

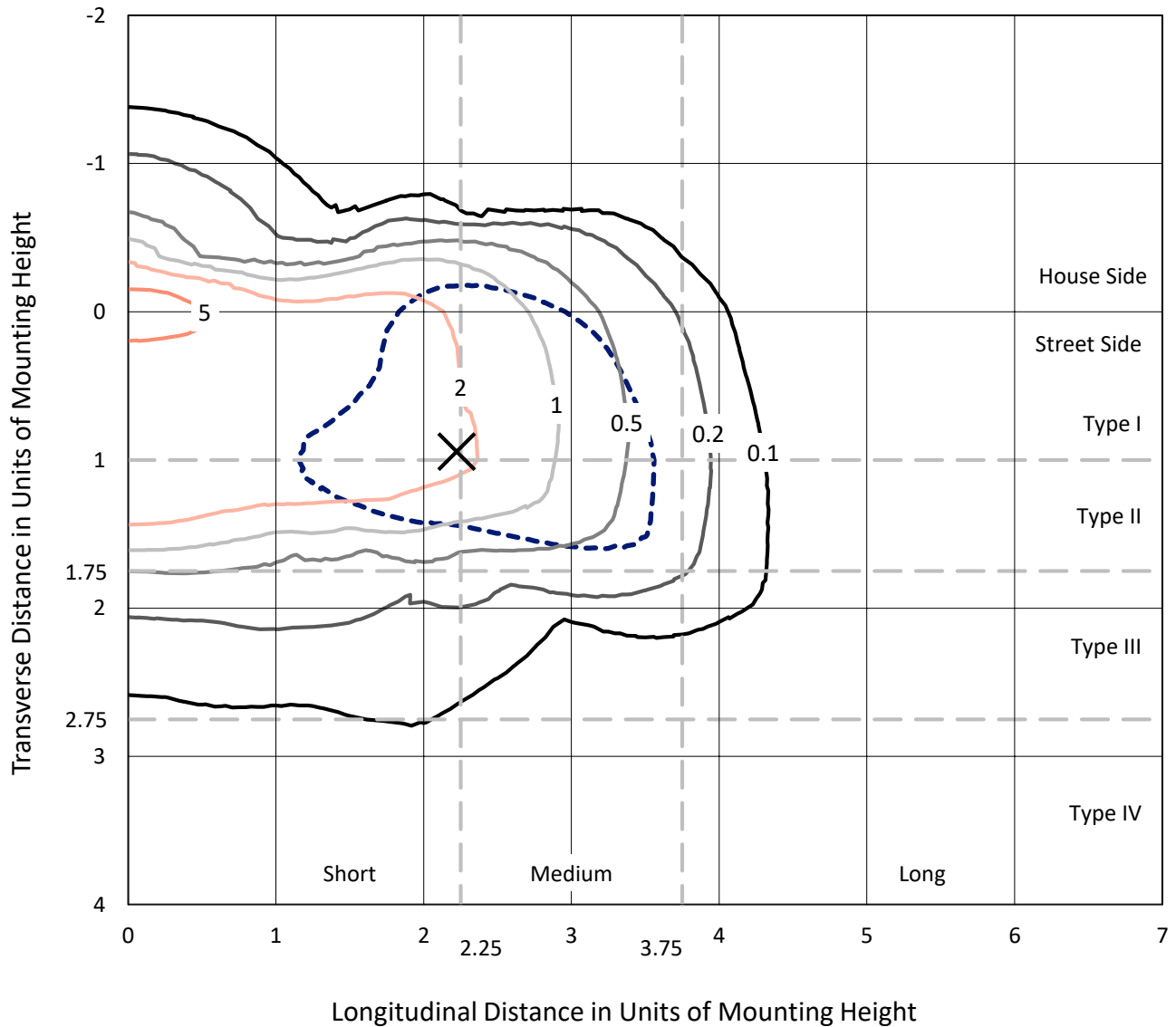
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

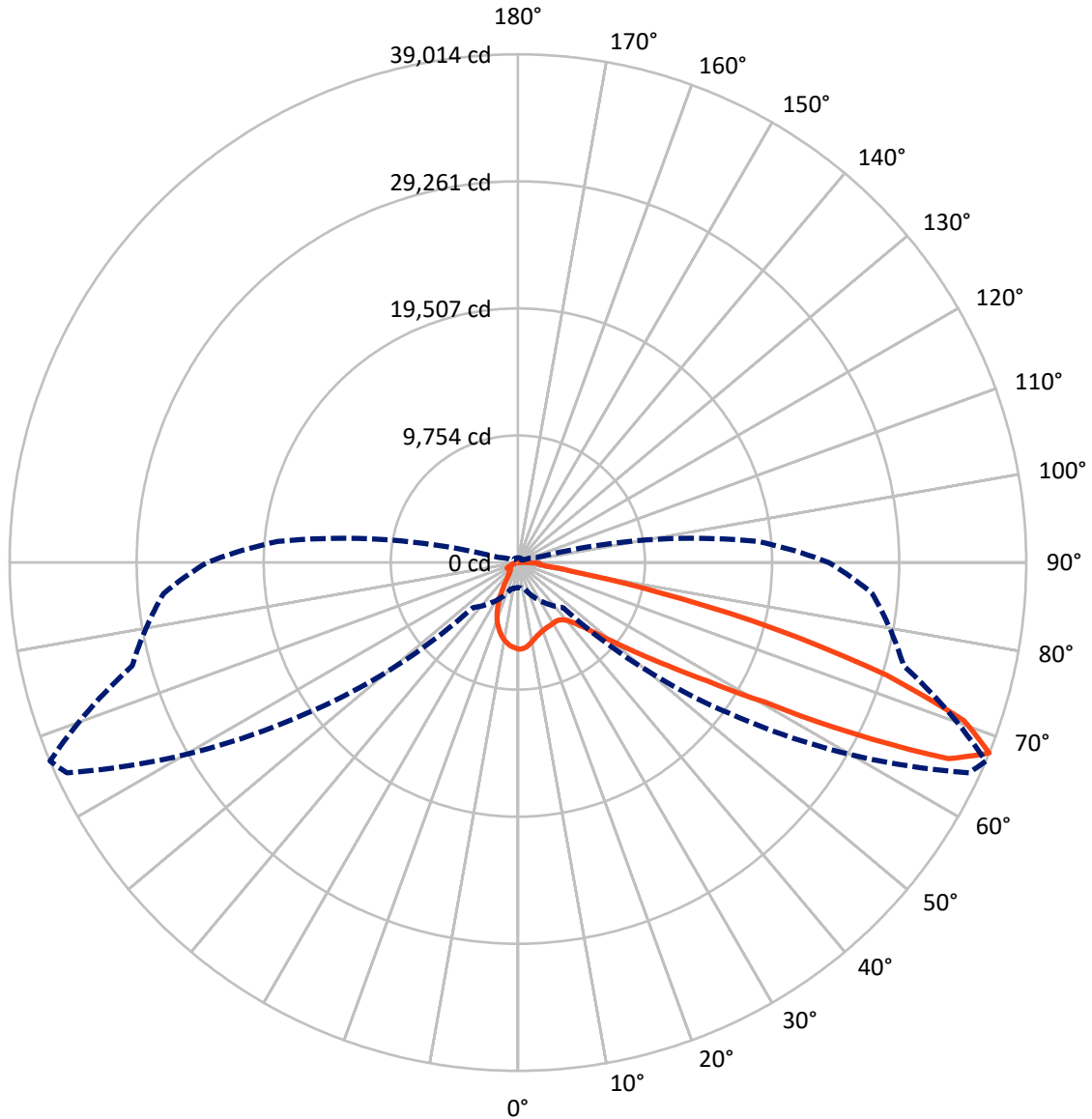
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 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	5101.7	0.0	5101.7
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	25689.3	0.0	25689.3
	% Fixture	83.4	0.0	83.4
Total	Lumens	30791.0	0.0	30791.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.6	1.8
10°-20°	1311.1	4.3
20°-30°	1777.2	5.8
30°-40°	2526.5	8.2
40°-50°	4226.9	13.7
50°-60°	6686.9	21.7
60°-70°	8518.4	27.7
70°-80°	4461.9	14.5
80°-90°	715.6	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°	30791.0	100.0
0°-180°	30791.0	100.0



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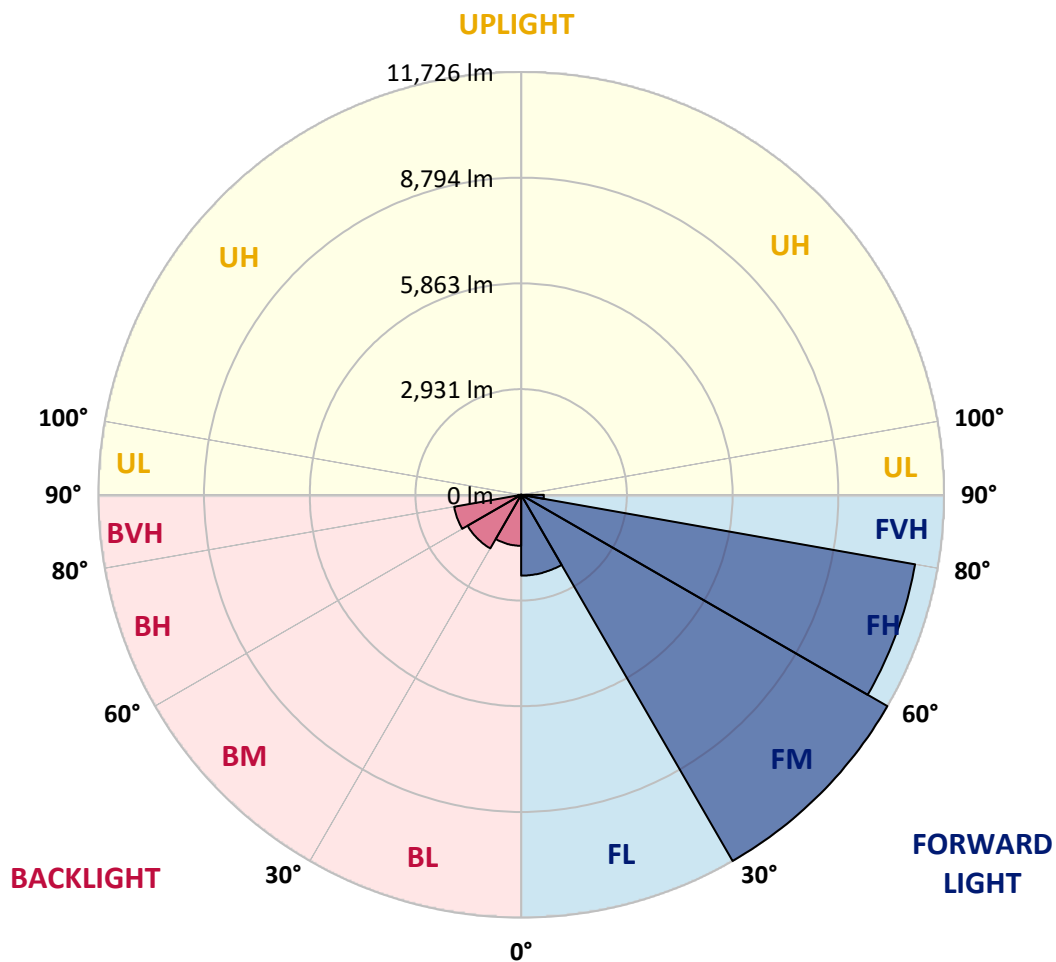
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2240.8	7.3			
FM (30°-60°)	11725.9	38.1			
FH (60°-80°)	11093.4	36.0			G4/12000
FVH (80°-90°)	629.2	2.0			G4/750
BL (0°-30°)	1414.1	4.6	B3/2500		
BM (30°-60°)	1714.3	5.6	B2/2500		
BH (60°-80°)	1887.0	6.1	B3/2500		G3/2500
BVH (80°-90°)	86.4	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°	6641.5	6641.5	6641.5	6641.5	6641.5	6641.5	6641.5	6641.5	6641.5	6641.5	6641.5
2.5°	6368.2	6378.9	6412.3	6433.5	6529.2	6570.2	6599.0	6627.9	6632.4	6646.1	6632.4
5°	5700.1	5722.9	5785.2	5855.0	6040.3	6186.0	6339.4	6498.8	6527.7	6630.9	6659.8
7.5°	5182.3	5176.3	5227.9	5311.4	5501.2	5703.2	5971.9	6289.3	6351.5	6583.8	6696.2
10°	4804.3	4799.7	4854.4	4940.9	5121.6	5312.9	5616.6	6050.9	6138.9	6509.4	6731.1
12.5°	4524.9	4526.4	4581.1	4676.7	4860.4	5053.3	5361.5	5820.1	5932.4	6422.9	6767.6
15°	4339.6	4351.8	4395.8	4497.5	4676.7	4869.6	5171.7	5647.0	5773.0	6354.6	6808.6
17.5°	4277.4	4297.1	4312.3	4386.7	4540.1	4732.9	5029.0	5519.4	5653.1	6307.5	6845.0
20°	4335.1	4357.8	4329.0	4354.8	4452.0	4622.1	4916.6	5419.2	5555.9	6254.3	6849.6
22.5°	4582.6	4603.8	4518.8	4444.4	4438.3	4541.6	4824.0	5340.3	5481.5	6214.9	6851.1
25°	5018.4	5032.0	4889.3	4716.2	4547.7	4512.7	4758.7	5285.6	5435.9	6179.9	6822.2
27.5°	5552.8	5563.5	5399.5	5144.4	4805.8	4581.1	4735.9	5253.7	5410.1	6149.6	6773.6
30°	6202.7	6252.8	6032.7	5710.8	5217.3	4783.0	4781.5	5237.0	5381.3	6098.0	6678.0
32.5°	6867.8	6889.0	6737.2	6410.7	5771.5	5138.3	4909.0	5249.2	5373.7	6035.7	6556.5
35°	7542.0	7569.3	7470.6	7207.9	6529.2	5659.1	5158.1	5320.5	5420.7	6014.4	6471.5
37.5°	8415.1	8451.5	8314.8	8011.2	7450.9	6365.2	5572.6	5499.7	5565.0	6075.2	6445.7
40°	9795.3	9778.6	9379.2	8926.8	8459.1	7268.6	6164.8	5803.4	5841.3	6271.1	6524.6
42.5°	11401.8	11360.8	10672.9	9962.3	9567.5	8361.9	6948.3	6330.3	6322.7	6656.7	6802.5
45°	12683.3	12649.9	12030.4	11154.3	10838.4	9607.0	7961.0	7115.3	7059.1	7268.6	7315.7
47.5°	13377.2	13378.7	13021.9	12306.7	12299.2	11189.2	9262.3	8251.1	8153.9	8252.6	8202.5
50°	13134.3	13166.2	13128.2	12900.4	13632.3	13263.3	10961.4	9834.8	9638.9	9736.1	9543.2
52.5°	11959.0	12000.0	12224.8	12574.0	14192.6	15770.2	13457.7	11802.6	11574.9	11539.9	11325.9
55°	9875.8	9925.9	10384.4	11333.4	13726.5	17454.2	17396.5	14311.1	13948.2	13618.7	13527.6
57.5°	6807.1	6890.6	7628.5	9037.6	12218.7	17962.8	22086.9	17886.9	17149.0	15998.0	16019.3
60°	3837.0	3934.2	4804.3	6084.3	9175.8	17410.1	25655.1	23303.1	21745.2	18784.3	18942.2
62.5°	2440.1	2544.9	3205.4	4227.3	5505.8	14434.0	27117.4	30832.9	28854.4	22219.0	22373.8
65°	1975.5	2021.0	2332.3	3489.3	3998.0	8696.0	26007.4	37035.6	36297.7	26578.3	25855.6
67.5°	1928.4	1943.6	2104.5	2929.0	3834.0	4887.8	20744.6	38195.7	39014.1	30649.2	27305.6
70°	1905.6	1958.8	2371.8	2795.4	3671.5	4122.5	12466.2	35016.1	36308.3	31713.6	25375.7
72.5°	924.7	921.7	1193.5	2528.2	4136.2	4275.9	6404.7	28332.1	29628.8	27475.7	20852.4
75°	745.5	681.8	651.4	926.2	3976.7	4415.5	4081.5	19494.9	20433.3	18421.4	12818.5
77.5°	707.6	631.7	578.5	580.0	1680.9	4682.8	3457.4	10789.9	11063.2	8320.9	3512.1
80°	586.1	516.3	478.3	539.0	813.9	4459.6	3738.3	4883.2	4480.8	2043.8	1169.2
82.5°	406.9	370.5	359.9	452.5	651.4	3178.0	4347.2	2623.8	2200.2	1023.4	721.2
85°	259.6	221.7	246.0	329.5	507.2	1466.8	4477.8	2045.3	1626.2	649.9	406.9
87.5°	120.0	97.2	121.5	182.2	331.0	505.6	4260.7	2297.4	1674.8	343.2	256.6
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°	6641.5	6641.5	6641.5	6641.5	6641.5	6641.5	6641.5	6641.5	6641.5	6641.5	6641.5
2.5°	6644.6	6615.7	6593.0	6550.4	6503.4	6457.8	6416.8	6365.2	6350.0	6336.3	6357.6
5°	6665.8	6637.0	6553.5	6422.9	6278.6	6143.5	6008.4	5893.0	5821.6	5782.1	5804.9
7.5°	6697.7	6656.7	6483.6	6243.7	5984.1	5747.2	5502.7	5306.9	5162.6	5094.3	5114.0
10°	6726.6	6647.6	6365.2	6005.3	5625.7	5273.5	4887.8	4568.9	4332.0	4207.5	4237.9
12.5°	6738.7	6612.7	6199.7	5707.7	5186.9	4670.6	4102.8	3626.0	3285.8	3161.3	3135.5
15°	6750.9	6573.2	6017.5	5369.1	4657.0	3926.6	3131.0	2560.0	2277.6	2215.4	2201.7
17.5°	6753.9	6504.9	5811.0	5001.7	4035.9	3041.4	2141.0	1778.1	1779.6	1879.8	1891.9
20°	6722.0	6403.2	5560.4	4544.6	3291.9	2103.0	1469.8	1407.6	1636.9	1887.4	1917.8
22.5°	6649.1	6268.0	5276.5	4011.7	2440.1	1384.8	1137.3	1205.6	1501.7	1808.4	1843.4
25°	6556.5	6104.0	4940.9	3393.7	1615.6	990.0	953.6	1037.1	1237.5	1442.5	1462.2
27.5°	6430.5	5909.7	4564.4	2686.1	1049.2	815.4	839.7	895.9	977.9	1069.0	1078.1
30°	6268.0	5677.4	4162.0	1958.8	792.6	733.4	768.3	798.7	833.6	885.2	889.8
32.5°	6081.2	5454.1	3749.0	1352.9	703.0	690.9	718.2	733.4	760.7	792.6	795.6
35°	5924.9	5241.6	3320.8	956.6	665.1	659.0	677.2	683.3	709.1	744.0	747.1
37.5°	5835.3	5068.5	2878.9	771.4	639.3	630.1	640.8	640.8	677.2	728.8	736.4
40°	5841.3	4972.8	2437.1	697.0	618.0	605.8	607.4	607.4	654.4	710.6	715.2
42.5°	6006.8	4997.1	2045.3	668.1	601.3	587.6	580.0	584.6	624.1	660.5	663.5
45°	6395.6	5168.7	1677.8	649.9	584.6	580.0	563.3	561.8	577.0	593.7	593.7
47.5°	7033.3	5507.3	1428.8	637.7	570.9	569.4	549.7	529.9	528.4	534.5	534.5
50°	8070.4	6090.4	1261.8	624.1	561.8	549.7	526.9	496.5	485.9	490.4	490.4
52.5°	9625.2	7130.5	1198.0	605.8	542.1	522.3	496.5	466.2	457.0	458.6	458.6
55°	11664.5	8727.8	1188.9	584.6	520.8	488.9	467.7	444.9	434.3	437.3	437.3
57.5°	14156.2	10937.1	1351.4	551.2	492.0	455.5	443.4	428.2	420.6	425.2	423.6
60°	17185.4	13828.2	2004.3	516.3	463.1	425.2	425.2	413.0	406.9	411.5	410.0
62.5°	20674.7	17149.0	2818.2	490.4	432.7	400.9	406.9	400.9	394.8	397.8	396.3
65°	23769.3	19312.7	2639.0	470.7	402.4	378.1	388.7	385.7	381.1	384.2	382.6
67.5°	23858.8	18511.0	1482.0	449.5	373.5	355.3	370.5	369.0	365.9	369.0	367.5
70°	21292.7	15630.6	835.1	410.0	343.2	328.0	349.2	347.7	344.7	350.8	349.2
72.5°	17059.4	11342.6	610.4	361.4	312.8	299.1	323.4	321.9	321.9	331.0	326.5
75°	9816.5	5836.8	487.4	309.8	280.9	270.3	291.5	293.1	296.1	308.2	299.1
77.5°	2798.4	1819.1	397.8	262.7	241.4	236.9	258.1	261.2	262.7	276.4	264.2
80°	1040.1	838.2	328.0	220.2	197.4	198.9	218.7	223.2	224.7	238.4	223.2
82.5°	663.5	552.7	265.7	170.1	154.9	153.4	177.7	183.7	183.7	185.2	176.1
85°	387.2	331.0	200.4	123.0	109.3	104.8	132.1	142.7	138.2	135.1	129.1
87.5°	259.6	227.8	123.0	68.3	59.2	56.2	77.4	85.0	82.0	77.4	72.9
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)