

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: P269468

Luminaire Tested: **GLEON-AF-07-LED-E1-SL2-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269468
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-SL2-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 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: 28951.7 lumens
Efficiency: N/A
Efficacy: 98.1 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

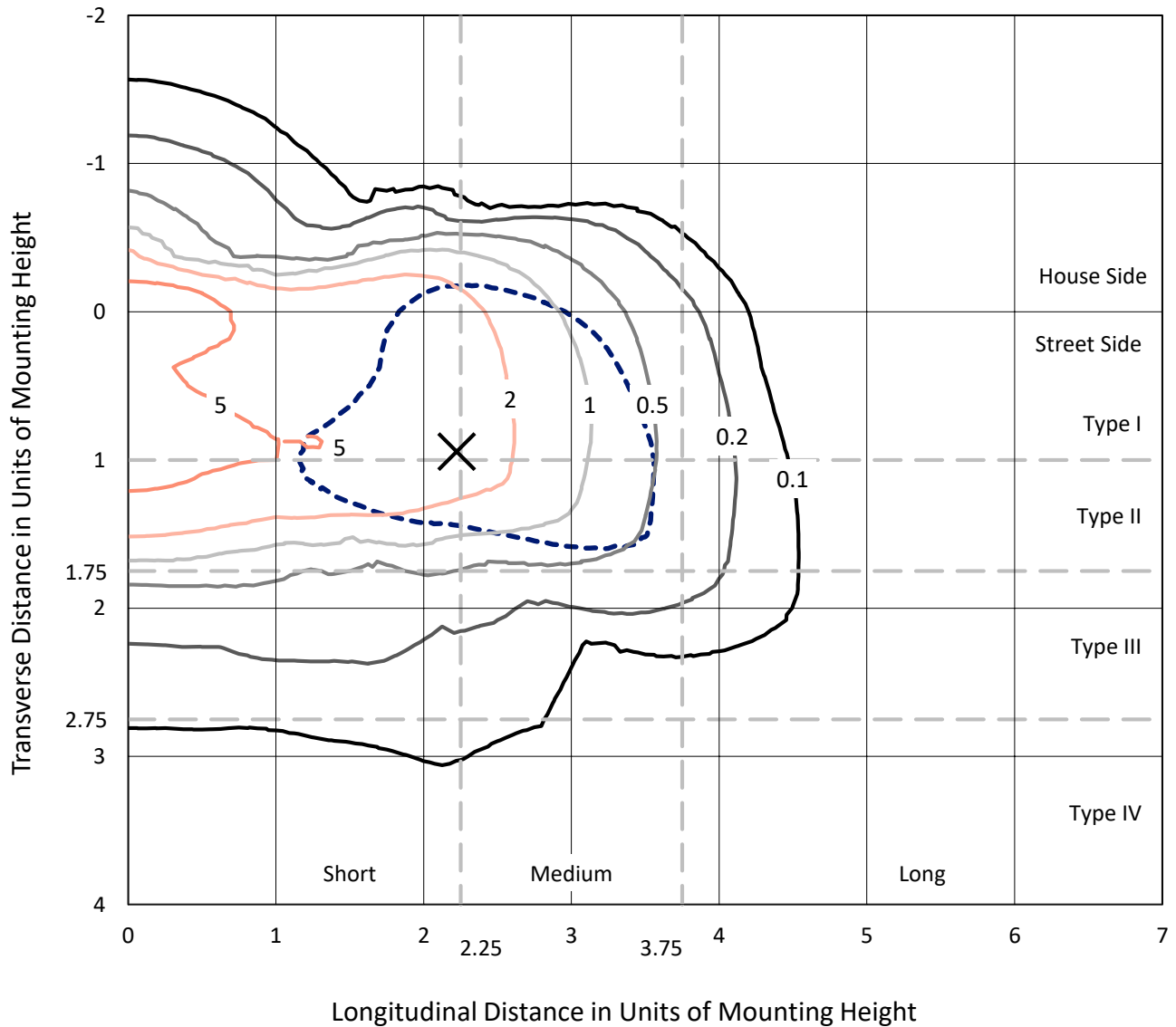


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Iso-Footcandle Lines of Horizontal Illumination

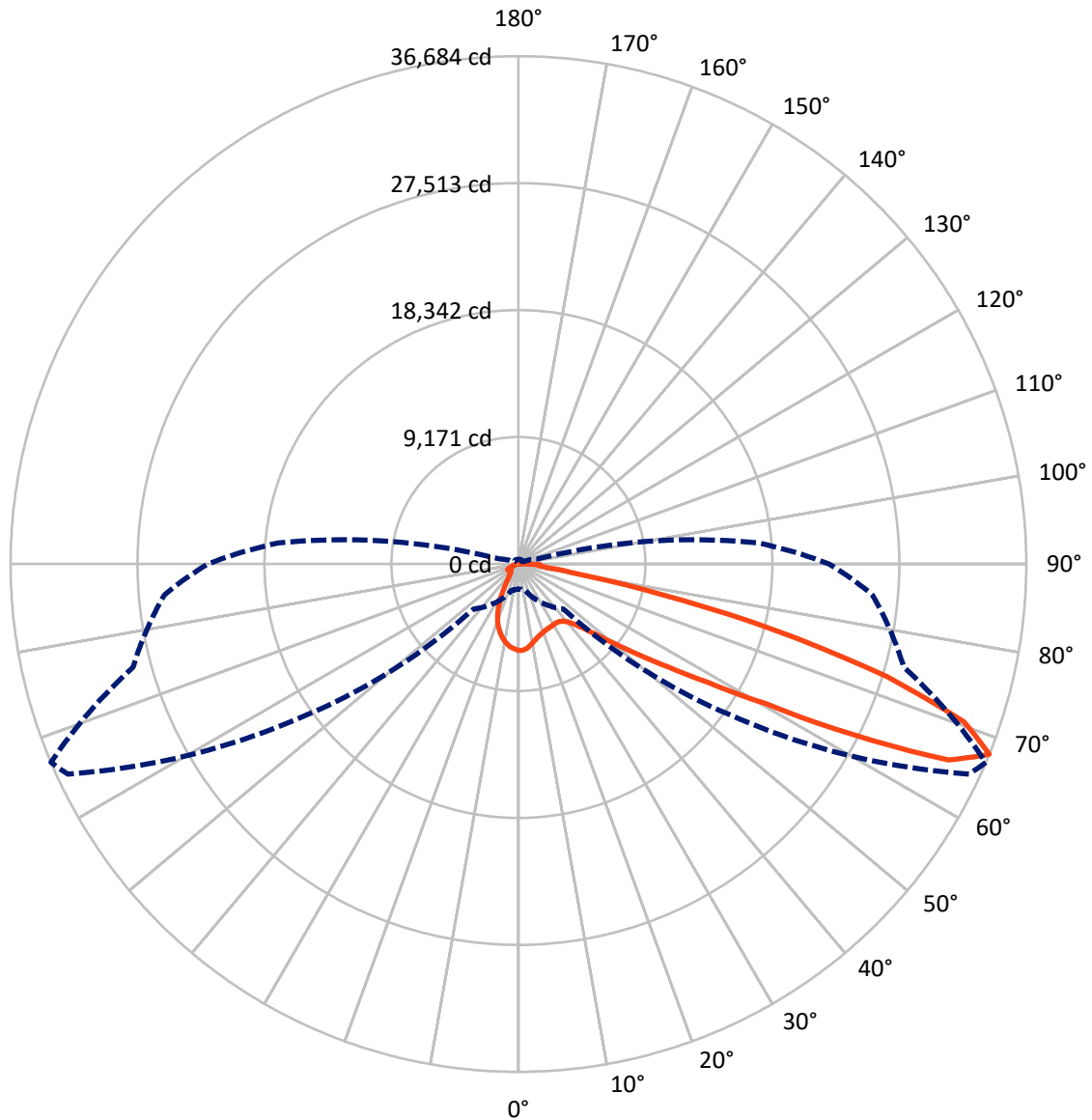
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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	4797.0	0.0	4797.0
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	24154.8	0.0	24154.8
	% Fixture	83.4	0.0	83.4
Total	Lumens	28951.7	0.0	28951.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.8	1.8
10°-20°	1232.8	4.3
20°-30°	1671.0	5.8
30°-40°	2375.5	8.2
40°-50°	3974.4	13.7
50°-60°	6287.4	21.7
60°-70°	8009.5	27.7
70°-80°	4195.4	14.5
80°-90°	672.9	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°	28951.7	100.0
0°-180°	28951.7	100.0



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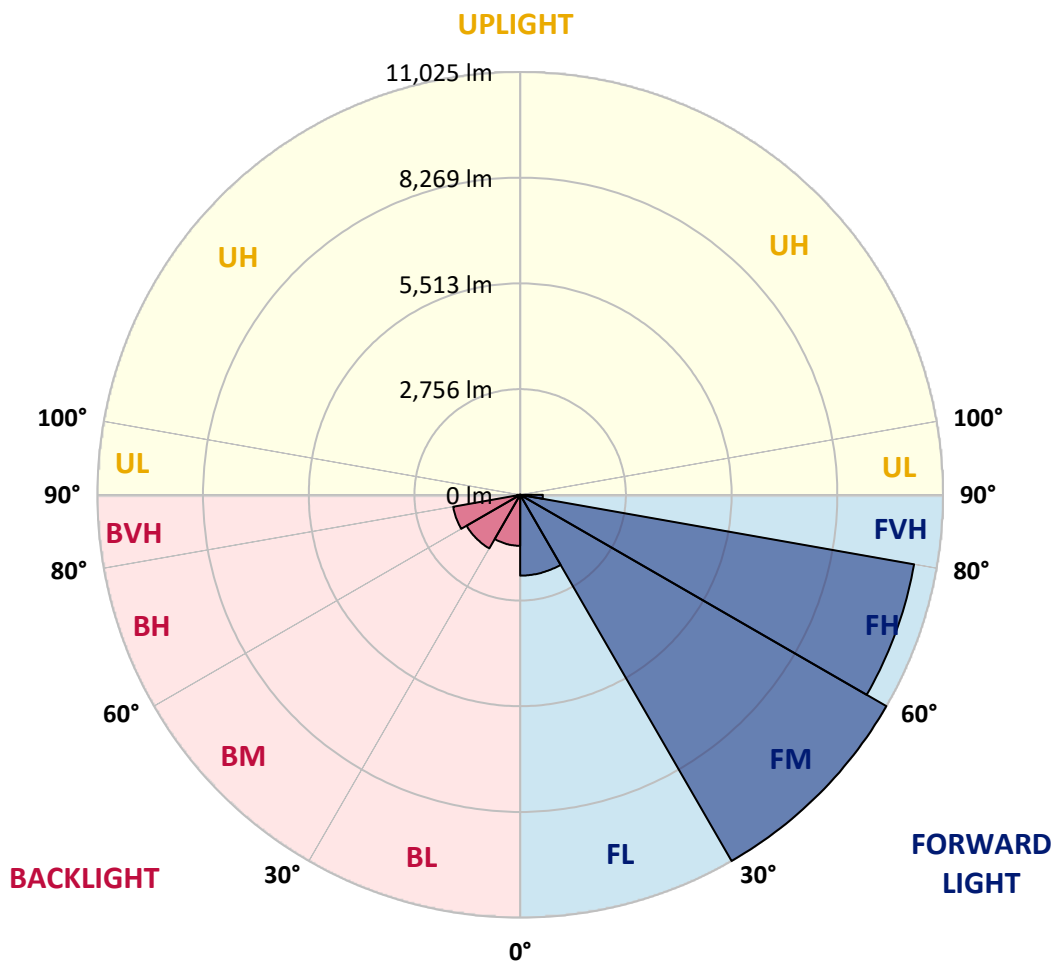
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2107.0	7.3			
FM (30°-60°)	11025.4	38.1			
FH (60°-80°)	10430.7	36.0			G4/12000
FVH (80°-90°)	591.7	2.0			G4/750
BL (0°-30°)	1329.6	4.6	B3/2500		
BM (30°-60°)	1611.9	5.6	B2/2500		
BH (60°-80°)	1774.2	6.1	B3/2500		G3/2500
BVH (80°-90°)	81.2	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°	6244.7	6244.7	6244.7	6244.7	6244.7	6244.7	6244.7	6244.7	6244.7	6244.7	6244.7
2.5°	5987.8	5997.9	6029.2	6049.2	6139.1	6177.7	6204.9	6232.0	6236.3	6249.1	6236.3
5°	5359.6	5381.0	5439.5	5505.3	5679.4	5816.5	5960.8	6110.6	6137.7	6234.9	6261.9
7.5°	4872.8	4867.0	4915.6	4994.1	5172.6	5362.5	5615.1	5913.6	5972.1	6190.6	6296.2
10°	4517.2	4513.1	4564.4	4645.8	4815.6	4995.6	5281.1	5689.4	5772.2	6120.6	6329.1
12.5°	4254.6	4256.0	4307.5	4397.4	4570.0	4751.4	5041.3	5472.5	5578.0	6039.2	6363.4
15°	4080.5	4091.8	4133.2	4229.0	4397.4	4578.8	4862.7	5309.6	5428.2	5974.9	6402.0
17.5°	4021.9	4040.4	4054.7	4124.7	4268.8	4450.2	4728.6	5189.8	5315.5	5930.7	6436.1
20°	4076.1	4097.6	4070.4	4094.7	4186.0	4346.0	4622.9	5095.5	5224.1	5880.8	6440.4
22.5°	4308.8	4328.8	4248.9	4178.9	4173.2	4270.4	4535.8	5021.3	5154.0	5843.7	6441.8
25°	4718.5	4731.5	4597.3	4434.5	4276.0	4243.1	4474.5	4969.9	5111.3	5810.7	6414.6
27.5°	5221.2	5231.1	5077.0	4837.2	4518.7	4307.5	4453.1	4939.9	5086.9	5782.2	6369.1
30°	5832.2	5879.3	5672.3	5369.6	4905.6	4497.4	4495.8	4924.1	5059.9	5733.7	6279.2
32.5°	6457.6	6477.6	6334.8	6027.7	5426.8	4831.4	4615.9	4935.6	5052.6	5675.1	6164.9
35°	7091.5	7117.1	7024.3	6777.4	6139.1	5321.1	4849.9	5002.8	5097.0	5655.2	6084.8
37.5°	7912.5	7946.6	7818.2	7532.6	7005.8	5985.0	5239.8	5171.2	5232.5	5712.3	6060.7
40°	9210.2	9194.5	8819.0	8393.6	7953.9	6834.5	5796.6	5456.8	5492.3	5896.5	6134.9
42.5°	10720.7	10682.1	10035.3	9367.3	8996.0	7862.4	6533.3	5952.1	5945.1	6259.1	6396.1
45°	11925.7	11894.3	11311.7	10488.0	10191.0	9033.1	7485.4	6690.2	6637.4	6834.5	6878.7
47.5°	12578.2	12579.5	12244.1	11571.6	11564.5	10520.8	8709.1	7758.2	7666.9	7759.6	7712.5
50°	12349.7	12379.7	12344.0	12129.9	12818.0	12471.1	10306.7	9247.3	9063.1	9154.4	8973.2
52.5°	11244.7	11283.3	11494.5	11823.0	13344.9	14828.2	12653.9	11097.7	10883.4	10850.6	10649.2
55°	9285.9	9333.0	9764.1	10656.5	12906.6	16411.6	16357.2	13456.3	13115.0	12805.2	12719.6
57.5°	6400.5	6478.9	7172.8	8497.7	11488.9	16889.8	20767.6	16818.4	16124.5	15042.4	15062.4
60°	3607.9	3699.2	4517.2	5720.9	8627.7	16370.2	24122.6	21911.1	20446.3	17662.3	17810.8
62.5°	2294.4	2392.8	3014.0	3974.8	5176.9	13571.9	25497.5	28991.2	27130.8	20891.7	21037.3
65°	1857.4	1900.3	2192.9	3280.9	3759.1	8176.6	24453.9	34823.3	34129.5	24990.7	24311.1
67.5°	1813.1	1827.5	1978.7	2754.1	3605.0	4595.8	19505.4	35914.1	36683.6	28818.3	25674.5
70°	1791.8	1841.7	2230.1	2628.4	3452.1	3876.2	11721.5	32924.5	34139.5	29819.2	23859.9
72.5°	869.5	866.7	1122.3	2377.2	3889.1	4020.5	6022.1	26639.6	27859.0	25834.4	19606.8
75°	700.9	641.0	612.5	870.8	3739.1	4151.7	3837.6	18330.5	19212.7	17320.9	12052.7
77.5°	665.4	593.9	544.0	545.5	1580.5	4403.0	3250.8	10145.4	10402.4	7823.9	3302.3
80°	551.1	485.4	449.7	506.9	765.3	4193.2	3515.1	4591.5	4213.2	1921.7	1099.3
82.5°	382.6	348.4	338.4	425.4	612.5	2988.2	4087.6	2467.0	2068.7	962.3	678.2
85°	244.1	208.4	231.4	309.8	476.9	1379.2	4210.4	1923.1	1529.1	611.0	382.6
87.5°	112.7	91.4	114.3	171.3	311.3	475.5	4006.3	2160.2	1574.8	322.8	241.3
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°	6244.7	6244.7	6244.7	6244.7	6244.7	6244.7	6244.7	6244.7	6244.7	6244.7	6244.7
2.5°	6247.7	6220.6	6199.2	6159.1	6114.9	6072.1	6033.6	5985.0	5970.8	5957.9	5977.9
5°	6267.7	6240.5	6162.1	6039.2	5903.7	5776.6	5649.5	5540.9	5473.8	5436.7	5458.1
7.5°	6297.7	6259.1	6096.3	5870.8	5626.7	5403.9	5174.1	4989.8	4854.3	4790.0	4808.5
10°	6324.7	6250.5	5985.0	5646.6	5289.7	4958.5	4595.8	4296.0	4073.3	3956.1	3984.7
12.5°	6336.1	6217.7	5829.3	5366.7	4877.1	4391.6	3857.7	3409.3	3089.6	2972.5	2948.2
15°	6347.7	6180.6	5658.1	5048.4	4378.8	3692.0	2943.9	2407.1	2141.6	2083.0	2070.1
17.5°	6350.5	6116.3	5463.9	4702.8	3794.9	2859.8	2013.1	1671.8	1673.4	1767.5	1779.0
20°	6320.5	6020.7	5228.2	4273.1	3095.3	1977.3	1382.0	1323.6	1539.1	1774.6	1803.2
22.5°	6251.9	5893.6	4961.2	3772.1	2294.4	1302.1	1069.3	1133.7	1412.0	1700.4	1733.2
25°	6164.9	5739.5	4645.8	3190.9	1519.0	930.9	896.6	975.1	1163.6	1356.4	1374.9
27.5°	6046.3	5556.6	4291.7	2525.7	986.6	766.7	789.5	842.3	919.4	1005.2	1013.6
30°	5893.6	5338.2	3913.3	1841.7	745.2	689.5	722.4	751.0	783.9	832.4	836.6
32.5°	5718.0	5128.3	3524.9	1272.1	661.1	649.7	675.3	689.5	715.3	745.2	748.1
35°	5571.0	4928.6	3122.4	899.5	625.3	619.7	636.8	642.5	666.7	699.6	702.5
37.5°	5486.7	4765.7	2707.0	725.3	601.1	592.5	602.6	602.6	636.8	685.2	692.5
40°	5492.3	4675.8	2291.4	655.4	581.1	569.6	571.1	571.1	615.3	668.2	672.4
42.5°	5648.1	4698.7	1923.1	628.2	565.4	552.5	545.5	549.7	586.9	621.1	624.0
45°	6013.6	4859.9	1577.7	611.0	549.7	545.5	529.7	528.3	542.5	558.2	558.2
47.5°	6613.1	5178.3	1343.4	599.7	536.7	535.4	516.9	498.3	496.9	502.5	502.5
50°	7588.3	5726.5	1186.4	586.9	528.3	516.9	495.4	466.8	456.9	461.2	461.2
52.5°	9050.2	6704.5	1126.5	569.6	509.7	491.2	466.8	438.4	429.7	431.1	431.1
55°	10967.6	8206.5	1117.9	549.7	489.7	459.8	439.7	418.3	408.3	411.2	411.2
57.5°	13310.5	10283.8	1270.7	518.2	462.5	428.3	417.0	402.6	395.4	399.7	398.3
60°	16158.8	13002.2	1884.6	485.4	435.5	399.7	399.7	388.3	382.6	386.9	385.6
62.5°	19439.7	16124.5	2649.8	461.2	406.9	376.8	382.6	376.8	371.2	374.1	372.6
65°	22349.4	18159.1	2481.4	442.5	378.4	355.5	365.5	362.6	358.3	361.2	359.9
67.5°	22433.6	17405.3	1393.5	422.7	351.1	334.1	348.4	346.9	344.1	346.9	345.5
70°	20020.9	14696.9	785.3	385.6	322.8	308.4	328.4	327.0	324.1	329.8	328.4
72.5°	16040.3	10664.9	573.9	339.7	294.1	281.3	304.0	302.6	302.6	311.3	307.0
75°	9230.2	5488.1	458.2	291.2	264.1	254.1	274.2	275.5	278.5	289.9	281.3
77.5°	2631.2	1710.5	374.1	247.0	227.0	222.7	242.7	245.5	247.0	259.8	248.4
80°	978.0	788.2	308.4	207.0	185.6	187.0	205.6	209.8	211.3	224.1	209.8
82.5°	624.0	519.7	249.9	159.9	145.6	144.2	167.1	172.7	172.7	174.2	165.6
85°	364.1	311.3	188.5	115.6	102.8	98.5	124.2	134.1	130.0	127.1	121.4
87.5°	244.1	214.2	115.6	64.3	55.7	52.8	72.9	79.9	77.2	72.9	68.5
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)