

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: P269714

Luminaire Tested: **GLEON-AF-10-LED-E1-SL3-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269714
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-SL3-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33727.6 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

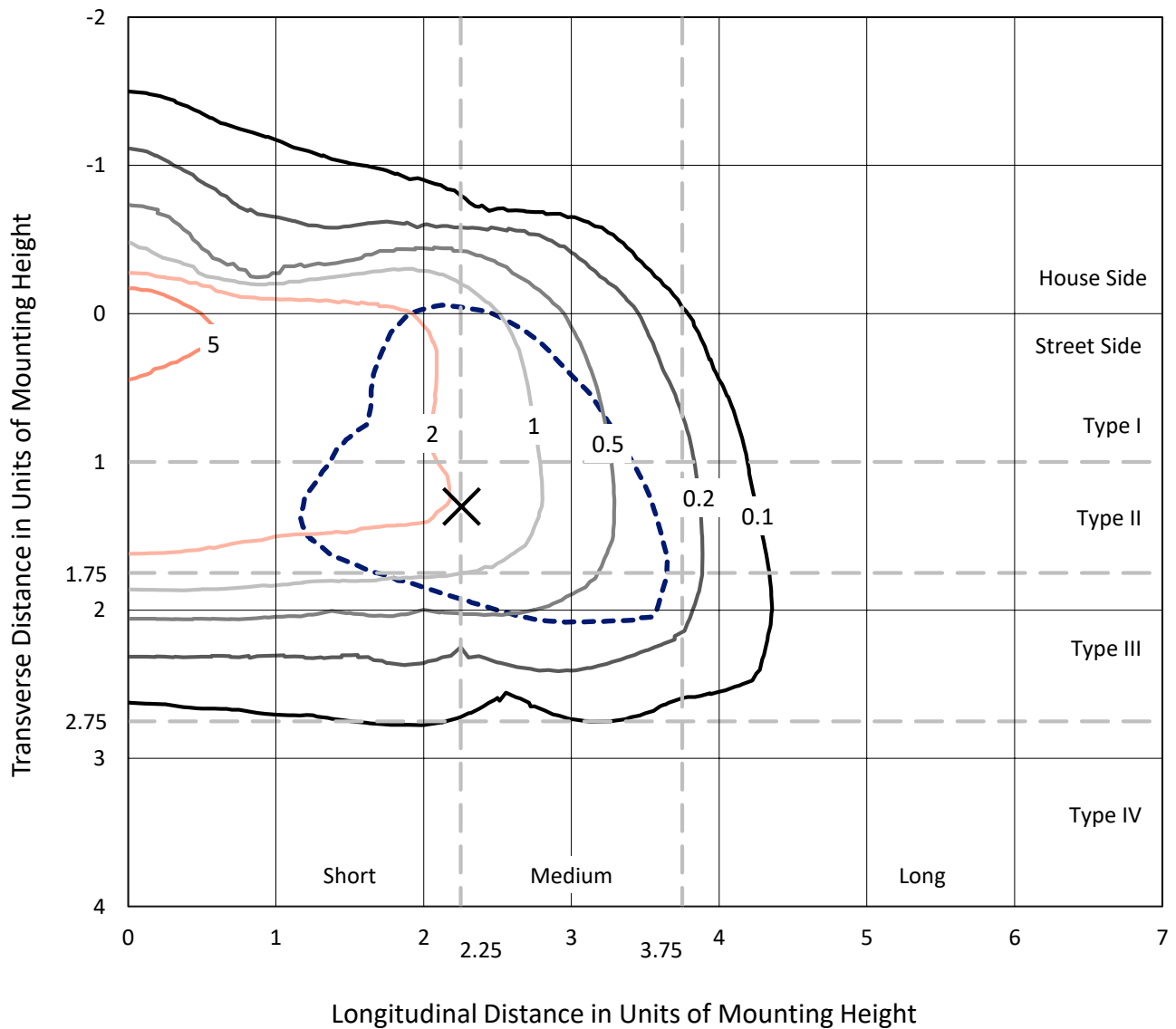
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

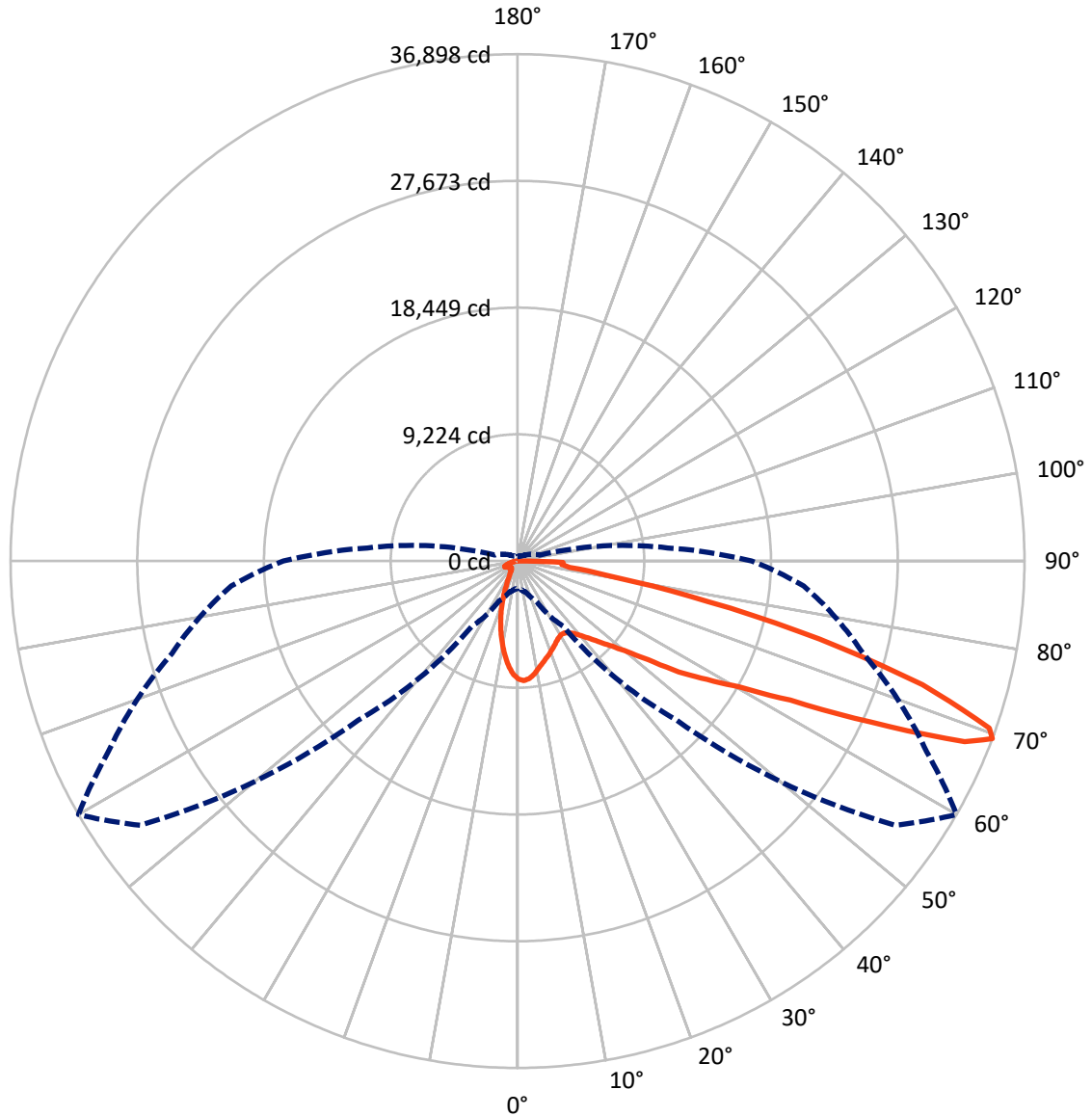
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.5 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4798.4	0.0	4798.4
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	28929.2	0.0	28929.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	33727.6	0.0	33727.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	726.7	2.2
10°-20°	1548.2	4.6
20°-30°	1972.7	5.8
30°-40°	2712.0	8.0
40°-50°	4400.5	13.0
50°-60°	7057.3	20.9
60°-70°	9392.7	27.8
70°-80°	5071.3	15.0
80°-90°	846.2	2.5
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°	33727.6	100.0
0°-180°	33727.6	100.0

Coefficient of Utilization



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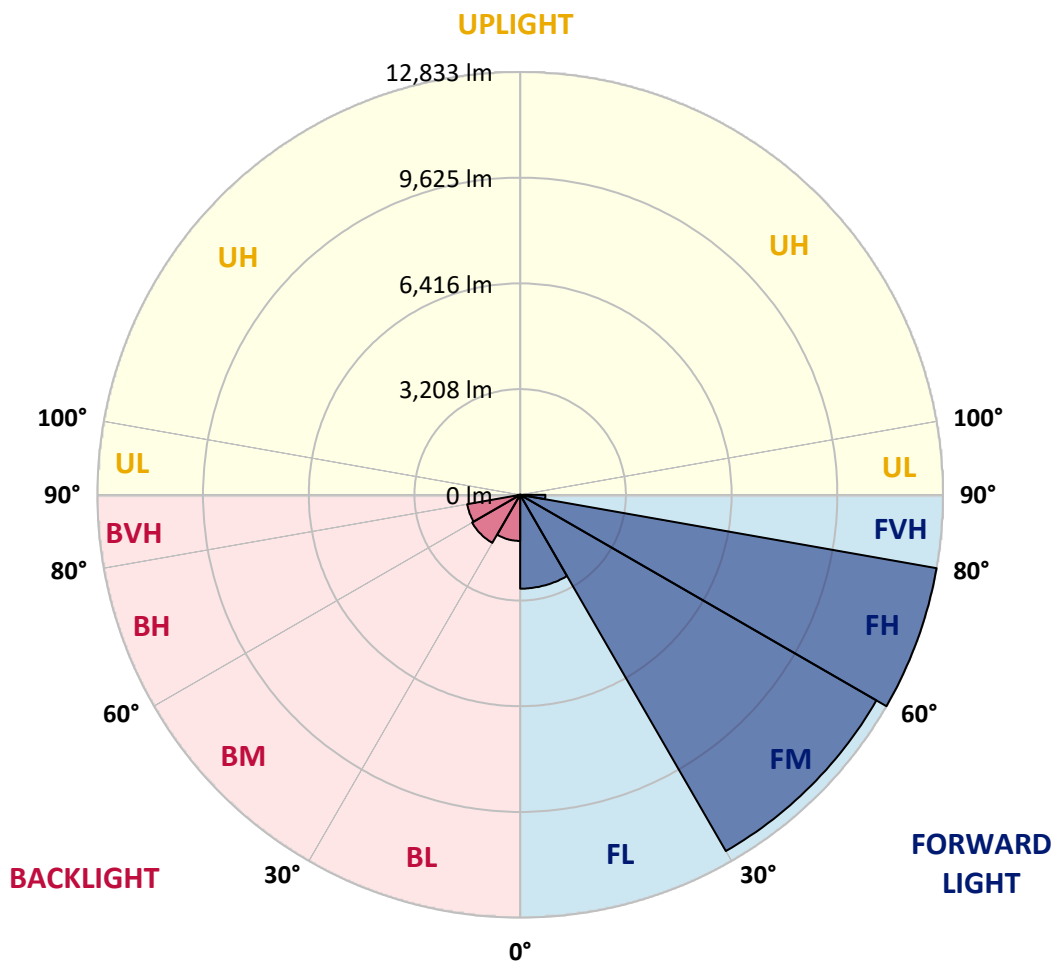
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2847.8	8.4			
FM (30°-60°)	12484.0	37.0			
FH (60°-80°)	12832.7	38.0			G5
FVH (80°-90°)	764.7	2.3			G5
BL (0°-30°)	1399.8	4.2	B3/2500		
BM (30°-60°)	1685.8	5.0	B2/2500		
BH (60°-80°)	1631.3	4.8	B3/2500		G3/2500
BVH (80°-90°)	81.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	8594.4	8594.4	8594.4	8594.4	8594.4	8594.4	8594.4	8594.4	8594.4	8594.4	8594.4
2.5°	8770.2	8789.8	8781.7	8776.8	8791.4	8768.6	8721.4	8706.7	8683.9	8630.1	8538.8
5°	8441.2	8499.9	8496.6	8540.5	8613.8	8633.4	8612.2	8615.5	8573.2	8506.3	8354.7
7.5°	7872.6	7897.0	7910.0	8006.1	8139.7	8247.2	8338.4	8367.8	8348.3	8291.3	8095.7
10°	7286.1	7305.6	7336.5	7448.9	7618.3	7766.7	7939.4	8038.8	8081.2	8071.4	7853.1
12.5°	6782.7	6802.1	6842.8	6969.9	7172.0	7354.5	7605.4	7729.1	7830.2	7890.5	7655.9
15°	6331.3	6373.7	6412.7	6559.3	6785.8	7025.4	7308.8	7465.3	7621.7	7756.9	7481.5
17.5°	5979.4	6021.7	6044.5	6178.2	6419.3	6712.6	7044.9	7229.0	7424.5	7646.2	7308.8
20°	5775.7	5795.2	5785.4	5860.5	6077.2	6388.2	6782.7	6996.0	7232.3	7541.8	7136.1
22.5°	5718.7	5720.2	5684.5	5676.3	5816.4	6078.7	6502.3	6761.5	7051.4	7473.4	6987.8
25°	5857.2	5852.3	5754.5	5674.8	5689.3	5842.4	6231.9	6533.4	6899.9	7458.7	6873.8
27.5°	6165.1	6179.8	6034.8	5884.8	5736.5	5731.7	6026.5	6344.3	6776.1	7525.6	6825.0
30°	6596.9	6621.2	6466.4	6275.9	5997.3	5767.6	5946.8	6231.9	6699.5	7664.0	6816.8
32.5°	7069.3	7095.4	6978.2	6777.7	6412.7	5989.1	6002.1	6241.7	6696.2	7858.0	6872.3
35°	7572.8	7602.0	7541.8	7372.4	6966.6	6398.1	6213.9	6399.7	6802.1	8154.5	7020.4
37.5°	8135.0	8180.4	8196.8	8035.5	7602.0	6937.4	6561.0	6699.5	7041.6	8566.5	7292.5
40°	8944.7	9008.2	9003.3	8771.9	8330.3	7665.6	7097.0	7132.9	7414.7	9117.3	7727.6
42.5°	10495.6	10508.7	10103.0	9599.6	9132.0	8431.4	7729.1	7699.8	7929.6	9814.6	8367.8
45°	12468.7	12414.9	11512.3	10539.6	9969.4	9311.2	8552.0	8408.6	8582.9	10665.0	9169.4
47.5°	14106.1	13982.3	12841.8	11499.3	10855.7	10267.5	9518.1	9267.2	9363.4	11629.5	10205.6
50°	14674.7	14581.7	13636.9	12297.5	11694.8	11434.0	10707.4	10352.2	10378.4	12779.8	11419.4
52.5°	14552.5	14539.4	13908.9	12823.8	12480.2	12659.4	12392.1	11911.4	11657.3	14057.1	12729.3
55°	14264.0	14291.9	14063.8	13436.5	13377.7	13842.2	14593.2	14238.0	13447.8	15345.9	14083.3
57.5°	13262.1	13333.8	13835.7	14207.1	14822.9	15513.8	16365.9	16264.8	15375.3	16738.9	15693.0
60°	10684.6	10850.8	12196.6	14057.1	16310.4	18470.9	18852.1	18617.6	17363.0	18467.5	17819.1
62.5°	7486.5	7659.0	9259.0	12170.5	16066.0	21810.8	23296.7	22285.0	20217.4	21014.1	20570.9
65°	4008.0	4091.1	5312.9	8444.3	13563.6	22499.9	29792.6	28253.0	24736.9	24153.6	22925.3
67.5°	2210.9	2256.5	2724.1	4263.7	8687.1	19813.3	33930.8	35094.2	30385.6	26244.1	22496.8
69°	1999.1	2041.5	2347.8	3229.1	5813.2	16382.1	33526.8	36897.7	32862.1	26037.2	20913.1
70°	1955.2	1994.1	2269.6	2976.7	4705.3	13503.2	32172.8	36436.6	33451.9	25295.8	19531.5
72.5°	1759.6	1802.0	2069.2	2673.6	4021.1	6732.1	25484.7	30807.6	30370.9	21932.9	14814.8
75°	1640.7	1679.8	2132.7	2618.2	3850.0	4260.5	16800.9	22705.3	22325.7	15342.7	7988.3
77.5°	702.2	698.9	988.9	2215.8	3907.0	4125.2	9027.6	14184.2	12941.2	6557.7	2294.0
80°	469.3	461.1	469.3	651.7	3582.7	4148.1	4729.8	7199.6	5438.5	1671.7	1130.6
82.5°	404.1	397.5	412.2	397.5	1259.5	4734.5	4021.1	3828.8	2585.6	949.9	560.5
85°	272.0	260.7	355.2	356.7	594.7	4206.8	4529.3	3234.1	2092.0	563.7	276.9
87.5°	130.3	127.1	206.9	252.6	348.6	1709.0	5081.6	3313.8	2109.8	288.4	132.1
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°	8594.4	8594.4	8594.4	8594.4	8594.4	8594.4	8594.4	8594.4	8594.4	8594.4	8594.4
2.5°	8511.3	8444.3	8379.2	8301.1	8219.6	8128.4	8082.7	8037.1	8025.6	8012.7	7967.1
5°	8276.7	8182.1	8019.2	7840.0	7651.0	7466.9	7326.8	7238.8	7172.0	7137.8	7077.4
7.5°	7973.5	7835.0	7550.0	7240.3	6922.7	6632.6	6381.7	6223.7	6073.9	6003.8	5924.0
10°	7685.2	7478.3	7035.2	6578.9	6122.8	5684.5	5272.2	4980.7	4721.6	4576.5	4473.9
12.5°	7437.5	7154.0	6539.8	5922.3	5296.6	4672.8	4055.2	3569.7	3164.0	2950.6	2841.3
15°	7196.4	6854.2	6068.9	5285.3	4482.1	3633.3	2821.8	2271.2	1935.6	1802.0	1756.4
17.5°	6978.2	6539.8	5596.5	4643.3	3641.4	2615.0	1896.4	1593.5	1464.6	1420.7	1406.0
20°	6741.9	6222.1	5106.1	3972.1	2764.9	1828.1	1480.9	1347.4	1295.3	1282.2	1275.8
22.5°	6513.8	5909.3	4636.8	3253.7	1986.1	1411.0	1272.4	1217.1	1208.8	1220.3	1220.3
25°	6319.8	5629.0	4130.1	2502.6	1458.2	1187.6	1138.8	1125.8	1156.7	1199.1	1207.3
27.5°	6174.9	5399.4	3590.9	1847.5	1161.7	1033.0	1031.3	1052.5	1129.1	1210.6	1226.8
30°	6075.4	5181.1	3014.2	1332.7	974.3	909.2	935.1	980.8	1093.2	1208.8	1239.9
32.5°	6025.0	5019.6	2412.9	1031.3	834.2	798.4	842.3	897.8	1008.4	1116.1	1156.7
35°	6064.1	4900.9	1845.9	860.2	736.4	708.8	754.3	808.1	873.3	918.8	949.9
37.5°	6210.7	4853.5	1393.0	770.7	669.6	643.5	679.4	710.4	736.4	749.5	764.1
40°	6526.7	4904.0	1116.1	725.0	632.1	599.6	614.3	625.6	641.8	655.0	661.5
42.5°	6992.8	5055.7	1000.4	707.1	612.6	565.4	562.1	567.0	588.2	612.6	617.5
45°	7644.4	5322.7	992.2	718.6	602.9	537.6	523.1	529.6	562.1	599.6	606.0
47.5°	8476.9	5730.1	1057.3	752.7	610.9	523.1	498.6	506.7	547.4	597.9	606.0
50°	9485.6	6298.6	1166.5	803.3	646.8	526.2	490.5	495.2	537.6	593.1	601.1
52.5°	10676.4	7105.1	1285.5	852.1	684.2	547.4	496.9	485.5	524.6	573.5	583.3
55°	12001.0	8139.7	1407.6	896.1	703.8	573.5	510.0	472.5	500.1	540.9	549.0
57.5°	13627.1	9586.5	1619.5	938.5	716.8	591.4	523.1	459.5	469.3	498.6	505.0
60°	15828.1	11633.0	1992.6	1008.4	746.2	597.9	521.3	448.1	438.3	454.5	457.9
62.5°	18466.0	13855.2	2303.8	1096.6	795.1	602.9	511.6	439.9	412.2	412.2	415.5
65°	20031.7	14449.9	2131.0	1169.9	835.9	597.9	500.1	431.7	392.6	374.8	376.4
67.5°	18703.8	12708.2	1826.4	1184.4	834.2	575.2	482.3	417.2	373.1	345.4	343.8
69°	17040.4	10964.9	1689.5	1145.3	795.1	545.8	459.5	400.9	358.5	329.0	327.5
70°	15699.5	9900.9	1599.9	1102.9	752.7	524.6	441.5	386.1	347.0	319.3	316.1
72.5°	11414.6	6487.6	1367.0	948.3	620.8	439.9	381.2	338.9	309.6	293.2	290.1
75°	5704.0	3093.9	1109.5	768.9	475.7	352.0	312.8	283.4	268.9	265.5	263.9
77.5°	1873.7	1417.4	793.5	573.5	353.6	275.3	252.6	231.4	228.1	238.0	234.5
80°	1029.6	824.5	503.4	379.7	241.1	201.9	198.7	187.3	192.2	208.5	205.4
82.5°	524.6	428.5	311.3	228.1	163.0	144.9	158.0	151.5	158.0	172.7	171.0
85°	259.0	234.5	197.2	138.5	107.5	92.9	112.4	117.3	120.6	132.1	132.1
87.5°	149.8	138.5	104.3	65.1	53.8	48.9	65.1	63.5	75.0	81.4	79.8
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)