

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: P269547

Luminaire Tested: **GLEON-AF-08-LED-E1-SL2-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269547
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-7027-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22618.3 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - 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

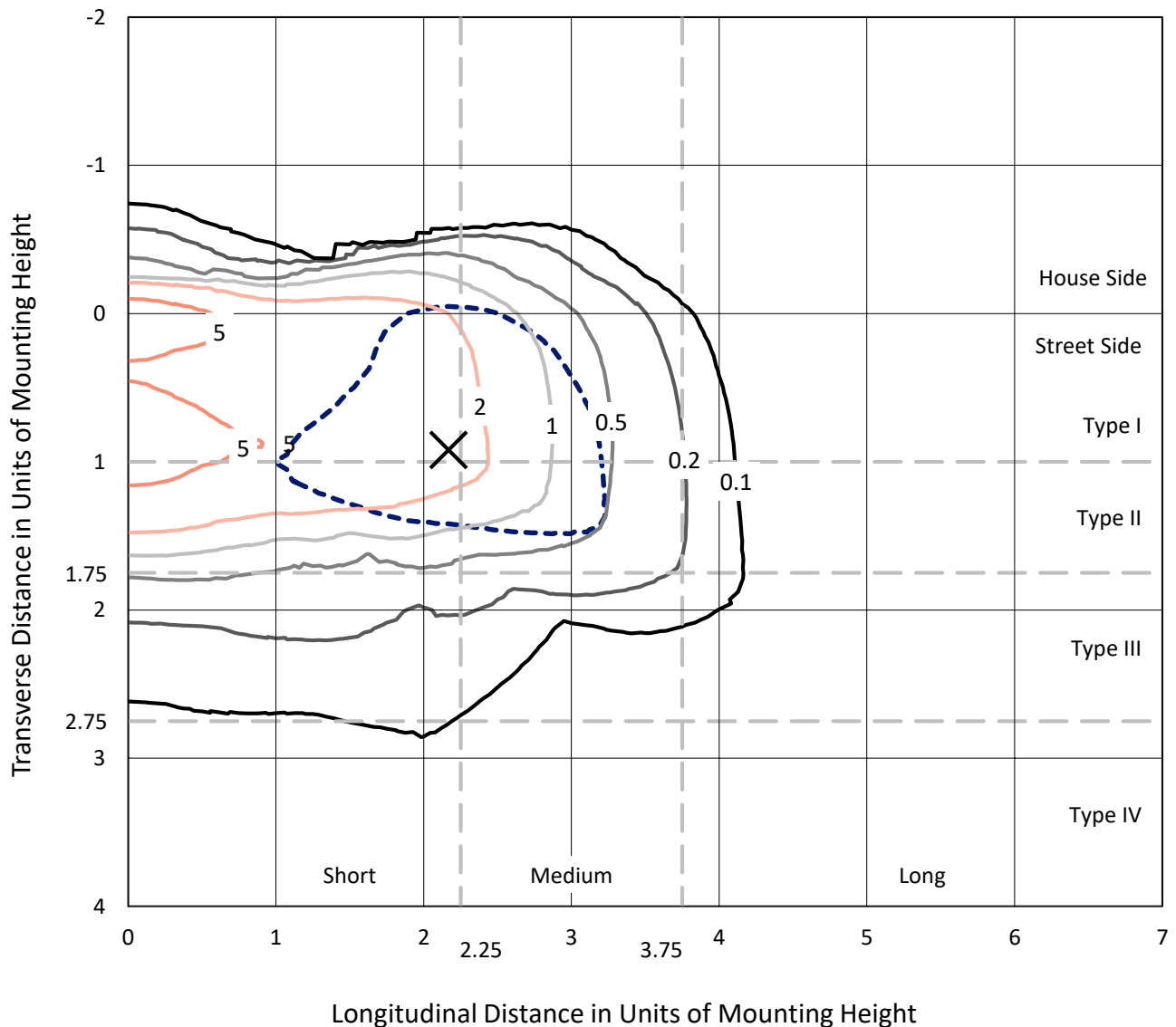


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

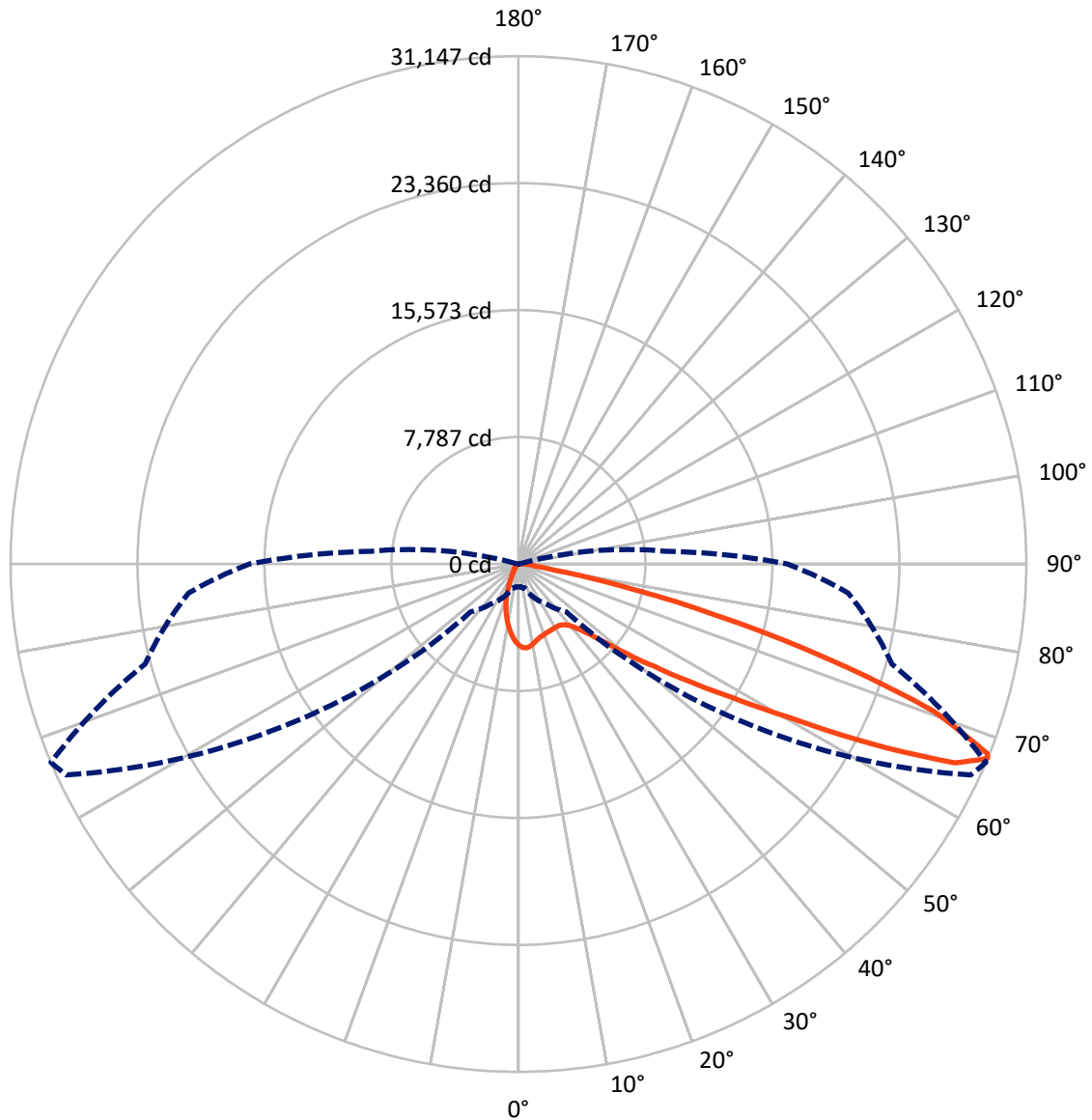


Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2348.5	0.0	2348.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	20269.8	0.0	20269.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	22618.3	0.0	22618.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.9	1.8
10°-20°	863.9	3.8
20°-30°	1256.0	5.6
30°-40°	1959.4	8.7
40°-50°	3470.9	15.3
50°-60°	5492.4	24.3
60°-70°	6290.8	27.8
70°-80°	2609.4	11.5
80°-90°	269.5	1.2
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°	22618.3	100.0
0°-180°	22618.3	100.0



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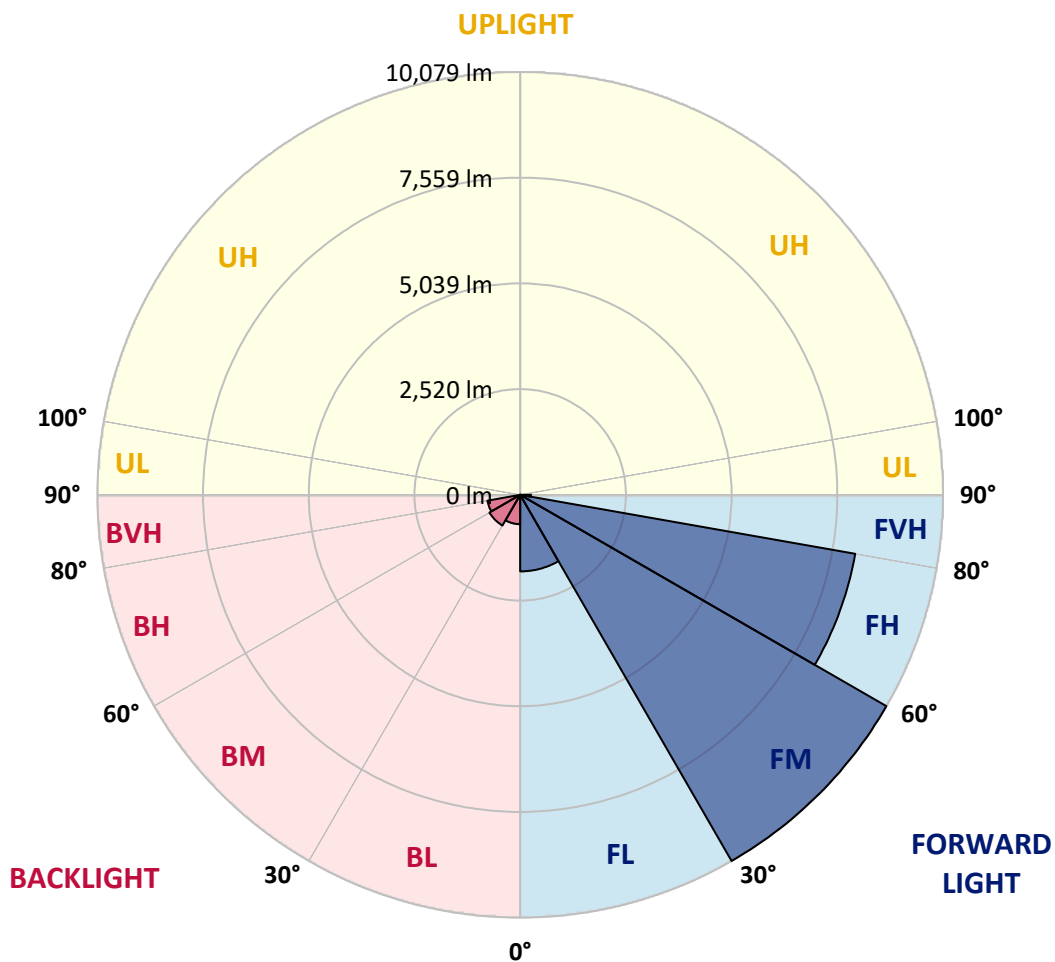
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1825.0	8.1			
FM	(30°-60°)	10078.7	44.6			
FH	(60°-80°)	8108.7	35.9			G4/12000
FVH	(80°-90°)	257.4	1.1			G3/500
BL	(0°-30°)	700.8	3.1	B2/1000		
BM	(30°-60°)	844.0	3.7	B1/1000		
BH	(60°-80°)	791.5	3.5	B2/1000		G2/1000
BVH	(80°-90°)	12.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4988.2	4988.2	4988.2	4988.2	4988.2	4988.2	4988.2	4988.2	4988.2	4988.2	4988.2
2.5°	5157.0	5167.6	5166.2	5174.1	5192.7	5194.0	5175.4	5139.9	5131.9	5085.8	5005.3
5°	4755.9	4786.3	4804.8	4880.0	4964.5	5066.0	5142.4	5170.3	5166.2	5133.3	5012.0
7.5°	4298.2	4328.6	4349.7	4438.0	4550.2	4724.2	4923.5	5087.1	5101.7	5137.2	5006.7
10°	3993.4	3998.7	4027.7	4112.3	4229.6	4407.7	4645.1	4931.4	4975.0	5105.5	4993.5
12.5°	3742.8	3746.7	3785.0	3875.9	4001.3	4180.7	4430.1	4761.2	4828.5	5066.0	4990.9
15°	3564.7	3579.1	3613.5	3708.5	3841.7	4019.8	4275.8	4636.0	4716.5	5051.4	5014.6
17.5°	3505.2	3521.1	3531.6	3600.2	3721.7	3895.8	4158.3	4554.0	4645.1	5059.4	5060.7
20°	3567.3	3579.1	3555.4	3572.6	3647.7	3803.5	4059.4	4484.2	4592.3	5068.6	5120.1
22.5°	3798.2	3803.5	3738.8	3663.6	3650.4	3736.2	3981.6	4428.7	4544.9	5093.7	5190.0
25°	4193.9	4184.8	4079.2	3916.9	3763.9	3724.4	3935.4	4394.5	4521.1	5120.1	5262.6
27.5°	4671.5	4684.8	4539.7	4303.5	4011.9	3803.5	3928.7	4380.0	4510.6	5138.6	5326.0
30°	5252.0	5270.4	5104.3	4807.4	4389.2	3998.7	3989.5	4377.4	4504.0	5126.6	5331.3
32.5°	5844.4	5866.8	5736.1	5430.2	4893.2	4325.9	4126.6	4406.4	4517.1	5085.8	5300.8
35°	6464.5	6496.1	6409.0	6146.5	5576.6	4798.1	4368.1	4494.8	4579.2	5081.8	5270.4
37.5°	7320.6	7349.7	7186.0	6907.6	6403.7	5431.4	4755.9	4660.9	4725.7	5145.1	5278.4
40°	8598.9	8595.1	8172.9	7746.8	7312.7	6236.3	5300.8	4961.8	4994.8	5336.4	5376.0
42.5°	9992.1	9985.6	9361.5	8713.7	8322.0	7227.0	6017.1	5481.5	5459.1	5688.6	5629.3
45°	11066.0	11064.8	10555.4	9825.9	9536.9	8364.2	6943.3	6204.6	6170.2	6261.2	6096.3
47.5°	11523.7	11531.7	11275.7	10762.7	10884.0	9902.5	8110.8	7252.0	7200.5	7163.7	6912.9
50°	11167.5	11183.4	11204.6	11104.3	11872.1	11969.7	9676.8	8728.3	8703.1	8538.3	8146.5
52.5°	10004.1	10084.6	10332.6	10650.5	12215.2	13953.9	12132.0	10562.1	10427.5	10252.0	9820.6
55°	8043.7	8131.9	8603.0	9374.7	11704.6	15257.4	15572.7	12926.3	12701.9	12178.2	11555.4
57.5°	5323.3	5460.4	6143.9	7125.4	10221.8	15467.0	19005.4	16207.2	15426.2	13992.2	13290.3
60°	2932.7	3064.7	3806.1	4695.4	7382.6	14430.2	21314.2	20479.0	19099.0	16019.8	15397.2
62.5°	1806.1	1877.3	2424.9	3252.0	4427.4	11389.3	21791.8	25847.1	24249.4	18630.7	17942.0
65°	1437.9	1468.4	1736.2	2658.4	3174.3	6774.5	20249.5	29939.5	29406.6	21791.8	20220.5
67°	1395.7	1407.6	1534.3	2282.4	2992.2	4153.0	16964.5	30605.8	31146.7	23704.7	20291.6
67.5°	1404.9	1418.2	1538.3	2178.1	2986.9	3816.7	15832.5	30343.2	31026.6	23856.4	19976.4
70°	1355.0	1395.7	1761.2	2176.9	2840.4	3171.6	9481.6	26290.3	27001.4	22166.3	16949.9
72.5°	480.2	482.8	761.3	1761.2	3088.5	3205.8	4761.2	19273.2	19799.6	16956.5	12220.5
75°	284.9	242.7	253.3	501.3	2951.2	3113.4	2746.7	12315.4	12512.0	9716.3	6188.8
77.5°	196.5	171.4	176.7	221.6	1124.0	3070.0	2182.1	6422.3	6212.5	3407.7	1318.0
80°	112.2	99.0	105.6	193.9	409.0	2864.2	2058.0	2604.2	2220.3	577.8	364.2
82.5°	59.4	50.1	60.6	159.5	284.9	1785.0	2062.0	1258.5	997.4	195.2	248.0
85°	21.1	17.2	29.0	109.6	190.0	547.4	1911.7	1058.1	831.1	95.0	188.6
87.5°	4.0	4.0	11.9	44.8	76.5	167.5	1130.5	627.9	420.9	56.8	129.3
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°	4988.2	4988.2	4988.2	4988.2	4988.2	4988.2	4988.2	4988.2	4988.2	4988.2	4988.2
2.5°	4972.3	4915.5	4839.1	4745.3	4634.5	4537.0	4464.3	4389.2	4373.4	4347.0	4343.0
5°	4939.3	4841.8	4651.8	4434.0	4201.9	3992.1	3821.8	3670.2	3602.9	3544.9	3538.2
7.5°	4890.6	4744.0	4420.9	4070.0	3707.1	3377.4	3097.6	2899.8	2717.7	2630.6	2617.4
10°	4833.8	4624.0	4160.9	3674.2	3172.9	2707.1	2291.5	1943.3	1732.2	1606.9	1591.1
12.5°	4781.0	4506.6	3895.8	3263.9	2597.7	1975.0	1440.6	1108.1	886.5	796.8	786.2
15°	4755.9	4411.7	3647.7	2844.4	1996.0	1257.3	787.6	609.5	536.9	515.8	514.5
17.5°	4753.3	4331.2	3405.0	2410.3	1398.4	731.0	513.2	468.3	453.9	448.6	448.6
20°	4752.0	4254.6	3162.4	1960.5	887.9	486.8	427.5	417.0	406.4	399.7	399.7
22.5°	4766.5	4186.0	2909.0	1501.3	559.4	394.4	376.0	365.4	352.2	343.1	341.6
25°	4781.0	4133.3	2650.4	1068.7	405.0	343.1	324.6	310.1	291.6	279.7	278.4
27.5°	4783.7	4067.3	2373.3	715.1	339.0	299.4	275.7	253.3	232.2	220.4	218.9
30°	4744.0	3956.4	2066.0	482.8	299.4	259.9	228.2	204.5	184.7	175.4	175.4
32.5°	4666.2	3819.2	1728.2	364.2	266.4	223.0	188.6	166.2	153.0	149.1	147.7
35°	4596.4	3671.6	1381.2	308.7	238.8	188.6	154.4	139.9	132.0	130.7	129.3
37.5°	4555.5	3552.7	1055.4	279.7	212.4	158.3	130.7	120.1	116.2	113.5	114.8
40°	4587.0	3453.9	779.6	255.9	185.9	132.0	110.9	105.6	101.6	100.3	100.3
42.5°	4725.7	3436.6	579.1	234.8	160.9	109.6	96.3	92.3	89.7	88.5	89.7
45°	5089.7	3542.2	450.0	215.1	135.9	92.3	81.7	80.5	79.1	79.1	79.1
47.5°	5637.3	3759.9	374.7	192.5	113.5	79.1	71.2	69.9	68.6	69.9	69.9
50°	6564.6	4158.3	335.1	170.1	93.7	67.4	60.6	60.6	60.6	60.6	62.1
52.5°	7975.1	4941.9	308.7	147.7	76.5	56.8	51.5	51.5	52.8	52.8	54.1
55°	9546.3	5981.5	284.9	125.4	64.7	47.5	42.2	43.6	44.8	46.2	46.2
57.5°	11250.7	7133.4	265.2	102.9	55.4	38.3	35.7	36.9	38.3	41.0	41.0
60°	13307.5	8380.0	236.2	80.5	46.2	30.4	27.7	30.4	34.2	36.9	38.3
62.5°	15566.1	9585.9	199.2	63.3	38.3	23.7	22.5	27.7	33.0	35.7	36.9
65°	17109.6	9964.4	153.0	51.5	29.0	17.2	18.4	25.1	31.7	35.7	35.7
67°	16484.3	9034.3	125.4	43.6	23.7	13.1	17.2	25.1	31.7	34.2	35.7
67.5°	16050.2	8670.3	120.1	42.2	22.5	13.1	17.2	25.1	31.7	35.7	35.7
70°	13059.5	6513.3	100.3	31.7	18.4	11.9	14.6	23.7	30.4	34.2	34.2
72.5°	9073.9	4015.9	89.7	22.5	15.8	10.6	13.1	22.5	29.0	33.0	34.2
75°	4314.0	1453.8	76.5	17.2	14.6	9.3	11.9	22.5	29.0	33.0	33.0
77.5°	880.0	337.8	62.1	14.6	11.9	9.3	10.6	21.1	27.7	31.7	31.7
80°	289.0	130.7	46.2	13.1	11.9	9.3	10.6	19.9	27.7	30.4	31.7
82.5°	208.4	65.9	30.4	13.1	11.9	9.3	9.3	19.9	26.4	30.4	30.4
85°	159.5	46.2	19.9	13.1	11.9	9.3	9.3	18.4	25.1	29.0	29.0
87.5°	105.6	18.4	15.8	13.1	11.9	9.3	9.3	18.4	23.7	27.7	29.0
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)