

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: P191844

Luminaire Tested: **GLEON-AF-06-LED-E1-SL2-7050-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191844
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-06-LED-E1-SL2-7050-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 800mA 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: 23825 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 249
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

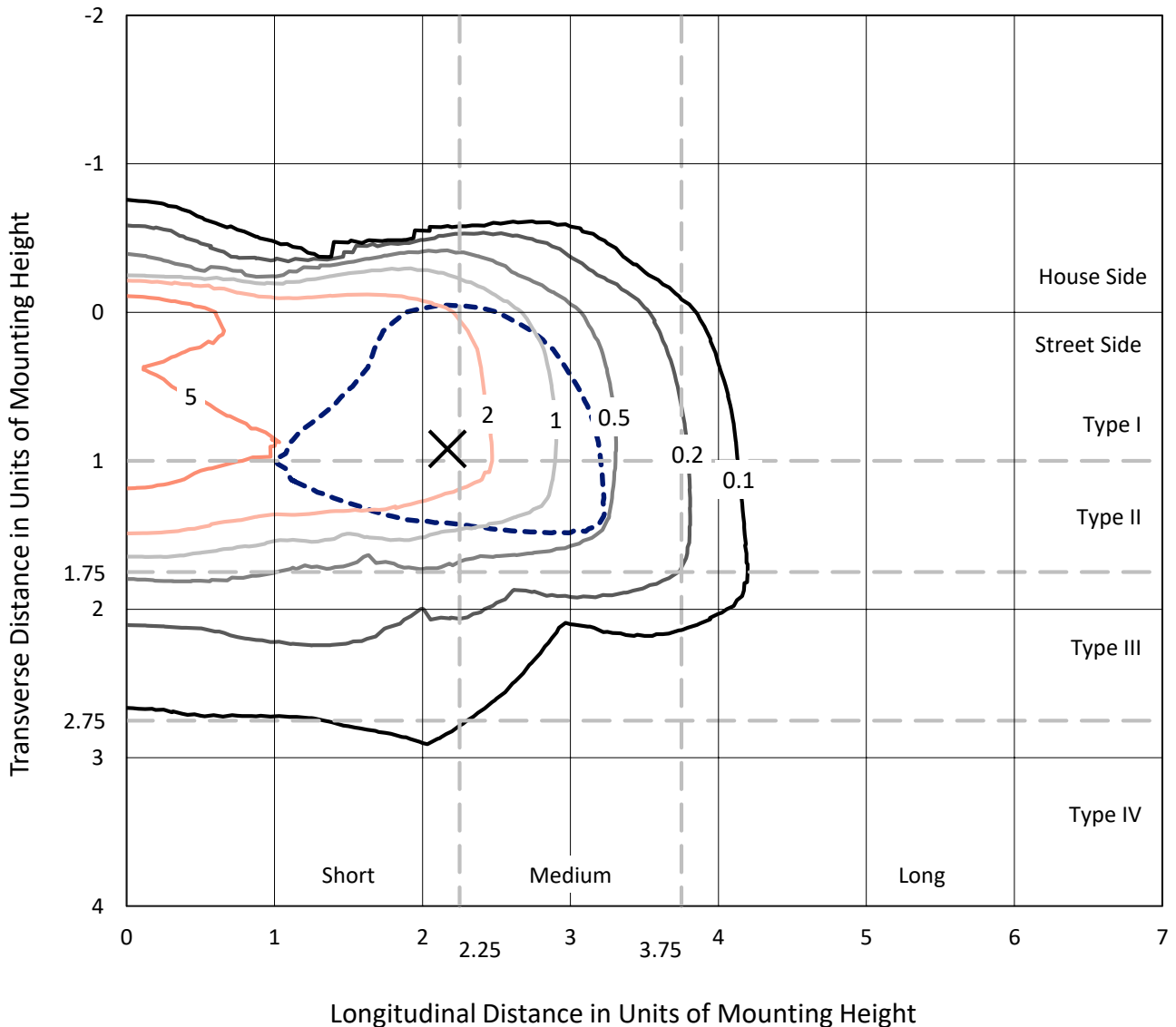


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

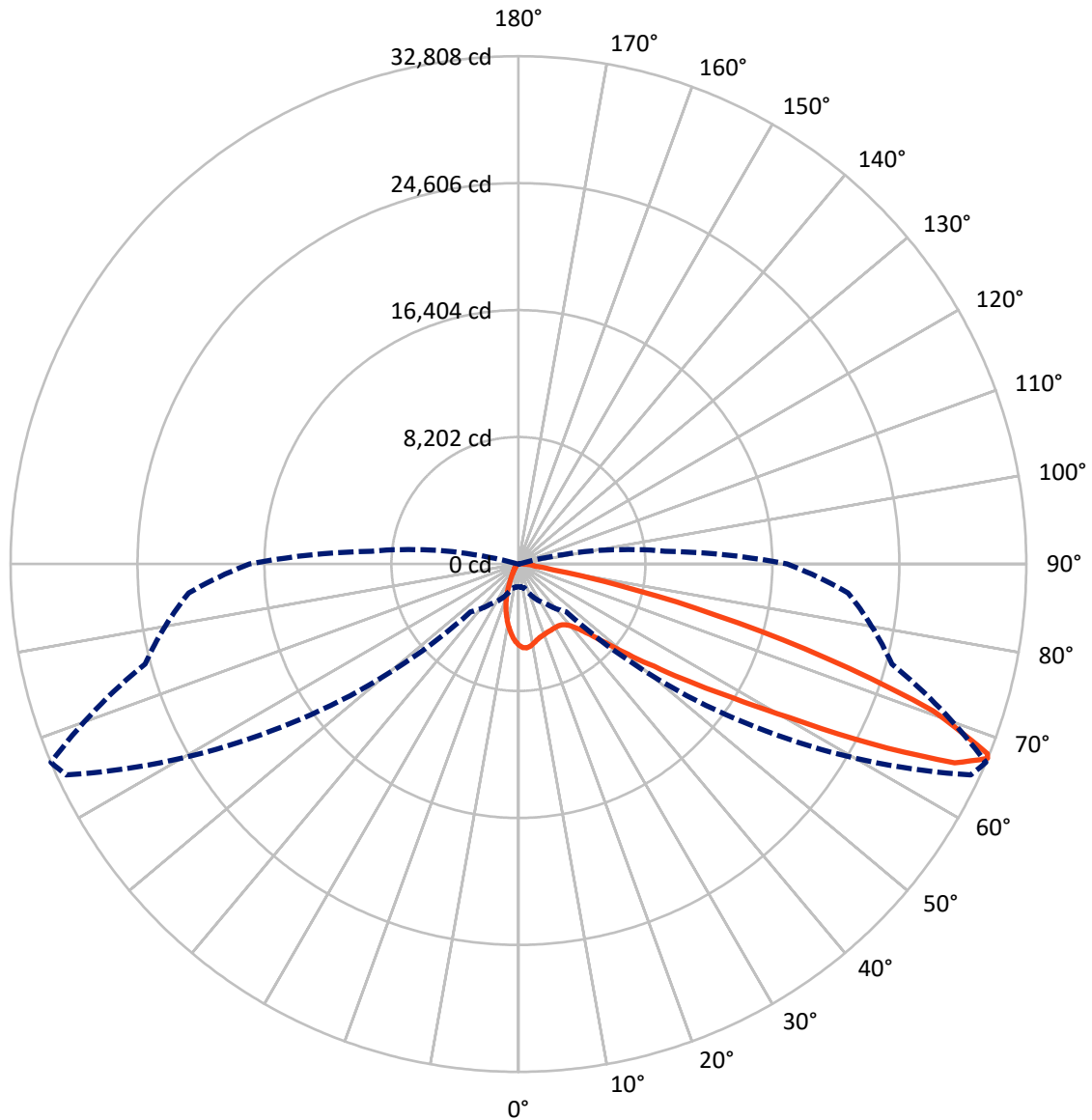


Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2473.8	0.0	2473.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	21351.3	0.0	21351.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	23825.0	0.0	23825.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.5	1.8
10°-20°	910.0	3.8
20°-30°	1323.0	5.6
30°-40°	2063.9	8.7
40°-50°	3656.1	15.3
50°-60°	5785.5	24.3
60°-70°	6626.5	27.8
70°-80°	2748.6	11.5
80°-90°	283.9	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°	23825.0	100.0
0°-180°	23825.0	100.0



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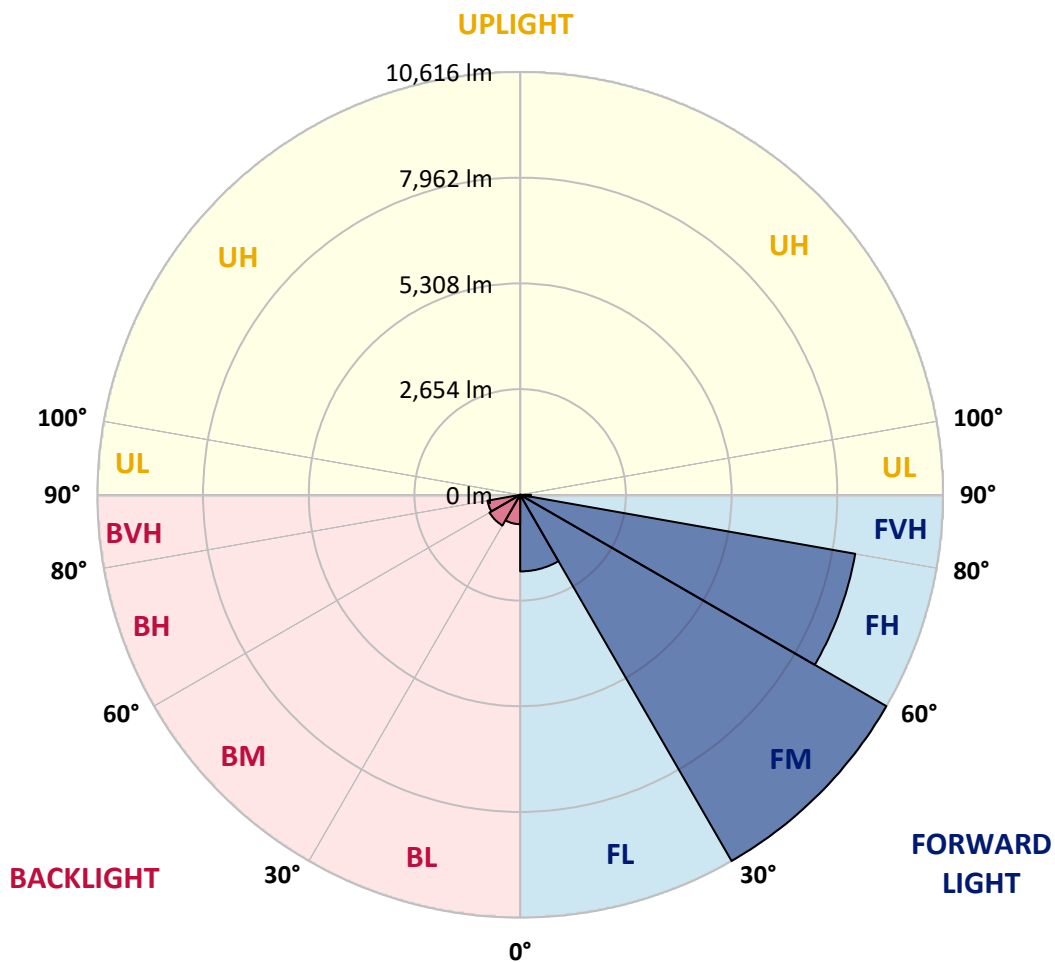
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1922.3	8.1			
FM	(30°-60°)	10616.5	44.6			
FH	(60°-80°)	8541.3	35.9			G4/12000
FVH	(80°-90°)	271.1	1.1			G3/500
BL	(0°-30°)	738.2	3.1	B2/1000		
BM	(30°-60°)	889.1	3.7	B1/1000		
BH	(60°-80°)	833.7	3.5	B2/1000		G2/1000
BVH	(80°-90°)	12.8	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°	5254.3	5254.3	5254.3	5254.3	5254.3	5254.3	5254.3	5254.3	5254.3	5254.3	5254.3
2.5°	5432.2	5443.3	5441.9	5450.2	5469.7	5471.1	5451.6	5414.1	5405.8	5357.1	5272.4
5°	5009.7	5041.7	5061.1	5140.3	5229.3	5336.3	5416.9	5446.1	5441.9	5407.2	5279.3
7.5°	4527.5	4559.5	4581.7	4674.8	4792.9	4976.4	5186.2	5358.5	5373.8	5411.3	5273.7
10°	4206.5	4212.0	4242.6	4331.6	4455.2	4642.8	4893.0	5194.5	5240.4	5378.0	5259.9
12.5°	3942.5	3946.6	3986.9	4082.8	4214.8	4403.8	4666.5	5015.3	5086.1	5336.3	5257.1
15°	3754.9	3770.1	3806.3	3906.3	4046.7	4234.3	4503.9	4883.3	4968.0	5321.0	5282.1
17.5°	3692.3	3709.0	3720.1	3792.4	3920.2	4103.7	4380.2	4797.1	4893.0	5329.3	5330.7
20°	3757.6	3770.1	3745.1	3763.2	3842.4	4006.4	4276.0	4723.4	4837.4	5339.1	5393.3
22.5°	4000.8	4006.4	3938.3	3859.1	3845.2	3935.5	4194.0	4665.1	4787.4	5365.5	5466.9
25°	4417.7	4408.0	4296.8	4125.9	3964.7	3923.0	4145.3	4628.9	4762.4	5393.3	5543.3
27.5°	4920.8	4934.7	4781.8	4533.1	4225.9	4006.4	4138.4	4613.7	4751.2	5412.7	5610.0
30°	5532.2	5551.7	5376.6	5063.9	4623.4	4212.0	4202.3	4610.9	4744.3	5400.2	5615.6
32.5°	6156.2	6179.8	6042.2	5719.8	5154.2	4556.7	4346.8	4641.5	4758.2	5357.1	5583.6
35°	6809.3	6842.7	6751.0	6474.4	5874.1	5054.2	4601.2	4734.6	4823.5	5353.0	5551.7
37.5°	7711.2	7741.8	7569.5	7276.2	6745.4	5721.2	5009.7	4909.7	4977.8	5419.7	5560.0
40°	9057.8	9053.6	8608.9	8160.1	7702.9	6568.9	5583.6	5226.5	5261.2	5621.2	5662.9
42.5°	10525.3	10518.3	9861.0	9178.7	8766.0	7612.5	6338.2	5774.0	5750.4	5992.2	5929.7
45°	11656.4	11655.1	11118.6	10350.2	10045.8	8810.4	7313.8	6535.6	6499.4	6595.3	6421.6
47.5°	12138.7	12147.0	11877.4	11336.8	11464.7	10430.8	8543.6	7638.9	7584.7	7545.8	7281.8
50°	11763.4	11780.1	11802.4	11696.7	12505.5	12608.4	10193.1	9194.0	9167.6	8993.9	8581.1
52.5°	10537.8	10622.5	10883.8	11218.7	12866.8	14698.4	12779.3	11125.6	10983.8	10799.0	10344.6
55°	8472.7	8565.8	9062.0	9874.9	12329.0	16071.4	16403.5	13615.9	13379.6	12827.9	12172.0
57.5°	5607.3	5751.8	6471.6	7505.5	10767.1	16292.3	20019.4	17071.9	16249.3	14738.7	13999.4
60°	3089.2	3228.2	4009.2	4945.8	7776.5	15200.1	22451.3	21571.6	20118.1	16874.6	16218.7
62.5°	1902.4	1977.5	2554.2	3425.5	4663.7	11996.9	22954.4	27226.2	25543.3	19624.7	18899.3
65°	1514.7	1546.7	1828.8	2800.2	3343.5	7135.9	21329.8	31536.9	30975.4	22954.4	21299.3
67°	1470.3	1482.8	1616.2	2404.1	3151.7	4374.6	17869.6	32238.6	32808.4	24969.4	21374.3
67.5°	1480.0	1493.9	1620.3	2294.3	3146.2	4020.3	16677.3	31962.1	32681.9	25129.2	21042.2
70°	1427.2	1470.3	1855.2	2292.9	2991.9	3340.7	9987.5	27693.1	28442.1	23349.0	17854.3
72.5°	505.8	508.6	801.8	1855.2	3253.2	3376.9	5015.3	20301.5	20856.0	17861.3	12872.4
75°	300.2	255.7	266.8	528.1	3108.7	3279.6	2893.3	12972.4	13179.5	10234.8	6518.9
77.5°	207.1	180.7	186.2	233.5	1184.0	3233.7	2298.5	6764.8	6543.9	3589.5	1388.3
80°	118.1	104.2	111.2	204.3	430.8	3016.9	2167.9	2743.2	2338.8	608.7	383.5
82.5°	62.5	52.8	63.9	168.1	300.2	1880.2	2172.0	1325.7	1050.6	205.7	261.3
85°	22.2	18.1	30.6	115.3	200.1	576.7	2013.6	1114.5	875.5	100.1	198.7
87.5°	4.2	4.2	12.5	47.2	80.6	176.5	1190.9	661.5	443.3	59.8	136.2
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°	5254.3	5254.3	5254.3	5254.3	5254.3	5254.3	5254.3	5254.3	5254.3	5254.3	5254.3
2.5°	5237.6	5177.9	5097.3	4998.6	4881.9	4779.0	4702.6	4623.4	4606.7	4578.9	4574.8
5°	5202.9	5100.0	4899.9	4670.6	4426.1	4205.1	4025.8	3866.0	3795.2	3734.0	3727.1
7.5°	5151.5	4997.2	4656.7	4287.1	3904.9	3557.5	3262.9	3054.5	2862.7	2771.0	2757.1
10°	5091.7	4870.7	4383.0	3870.2	3342.1	2851.6	2413.8	2047.0	1824.6	1692.6	1675.9
12.5°	5036.1	4747.1	4103.7	3438.0	2736.2	2080.3	1517.5	1167.3	933.8	839.4	828.2
15°	5009.7	4647.0	3842.4	2996.1	2102.6	1324.3	829.6	642.0	565.6	543.4	542.0
17.5°	5006.9	4562.2	3586.7	2538.9	1473.0	769.9	540.6	493.3	478.0	472.5	472.5
20°	5005.5	4481.6	3331.0	2065.0	935.2	512.8	450.2	439.1	428.0	421.1	421.1
22.5°	5020.8	4409.4	3064.2	1581.4	589.2	415.5	396.1	384.9	371.0	361.3	359.9
25°	5036.1	4353.8	2791.8	1125.6	426.6	361.3	341.9	326.6	307.1	294.6	293.2
27.5°	5038.9	4284.3	2500.0	753.2	357.1	315.5	290.4	266.8	244.6	232.1	230.7
30°	4997.2	4167.6	2176.2	508.6	315.5	273.8	240.4	215.4	194.6	184.8	184.8
32.5°	4915.2	4023.1	1820.5	383.5	280.7	234.9	198.7	175.1	161.2	157.0	155.6
35°	4841.6	3867.4	1455.0	325.2	251.5	198.7	162.6	147.3	139.0	137.6	136.2
37.5°	4798.5	3742.3	1111.7	294.6	223.7	166.8	137.6	126.5	122.3	119.5	120.9
40°	4831.8	3638.1	821.3	269.6	195.9	139.0	116.7	111.2	107.0	105.6	105.6
42.5°	4977.8	3620.1	610.1	247.4	169.5	115.3	101.4	97.3	94.5	93.1	94.5
45°	5361.3	3731.2	473.9	226.5	143.1	97.3	86.2	84.8	83.4	83.4	83.4
47.5°	5938.0	3960.5	394.7	202.9	119.5	83.4	75.0	73.7	72.3	73.7	73.7
50°	6914.9	4380.2	353.0	179.3	98.7	70.9	63.9	63.9	63.9	63.9	65.3
52.5°	8400.5	5205.7	325.2	155.6	80.6	59.8	54.2	54.2	55.6	55.6	57.0
55°	10055.6	6300.7	300.2	132.0	68.1	50.0	44.5	45.9	47.2	48.6	48.6
57.5°	11851.0	7513.9	279.3	108.4	58.4	40.3	37.5	38.9	40.3	43.1	43.1
60°	14017.5	8827.1	248.7	84.8	48.6	32.0	29.2	32.0	36.1	38.9	40.3
62.5°	16396.6	10097.2	209.8	66.7	40.3	25.0	23.6	29.2	34.7	37.5	38.9
65°	18022.5	10496.1	161.2	54.2	30.6	18.1	19.5	26.4	33.4	37.5	37.5
67°	17363.8	9516.4	132.0	45.9	25.0	13.9	18.1	26.4	33.4	36.1	37.5
67.5°	16906.6	9132.8	126.5	44.5	23.6	13.9	18.1	26.4	33.4	37.5	37.5
70°	13756.2	6860.7	105.6	33.4	19.5	12.5	15.3	25.0	32.0	36.1	36.1
72.5°	9558.1	4230.1	94.5	23.6	16.7	11.1	13.9	23.6	30.6	34.7	36.1
75°	4544.2	1531.4	80.6	18.1	15.3	9.7	12.5	23.6	30.6	34.7	34.7
77.5°	926.9	355.8	65.3	15.3	12.5	9.7	11.1	22.2	29.2	33.4	33.4
80°	304.3	137.6	48.6	13.9	12.5	9.7	11.1	20.8	29.2	32.0	33.4
82.5°	219.6	69.5	32.0	13.9	12.5	9.7	9.7	20.8	27.8	32.0	32.0
85°	168.1	48.6	20.8	13.9	12.5	9.7	9.7	19.5	26.4	30.6	30.6
87.5°	111.2	19.5	16.7	13.9	12.5	9.7	9.7	19.5	25.0	29.2	30.6
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)