

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: P269311

Luminaire Tested: **GLEON-AF-05-LED-E1-SL2-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269311
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-05-LED-E1-SL2-7027-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA 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: 23485.9 lumens
Efficiency: N/A
Efficacy: 73.4 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): 320
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

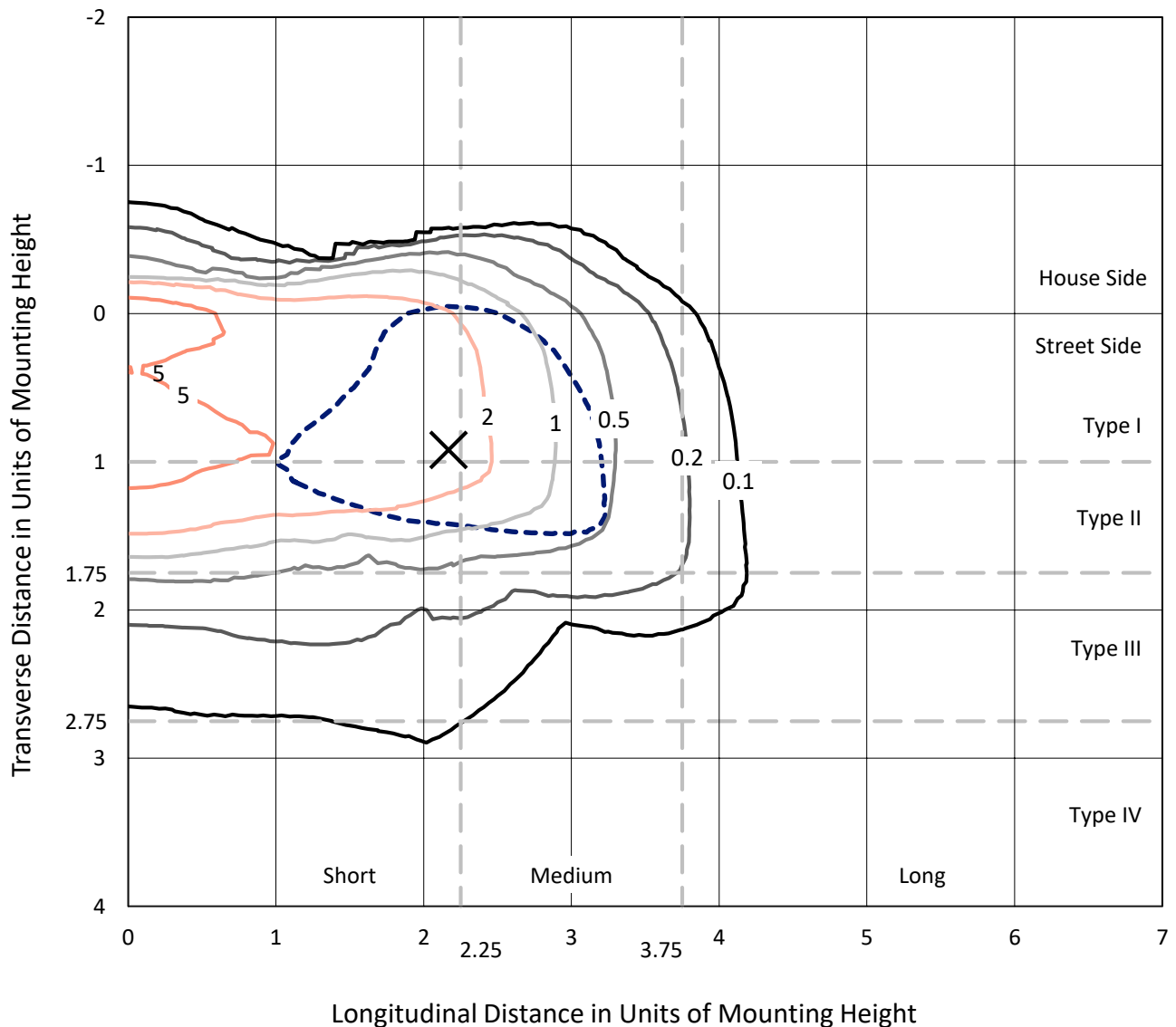


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

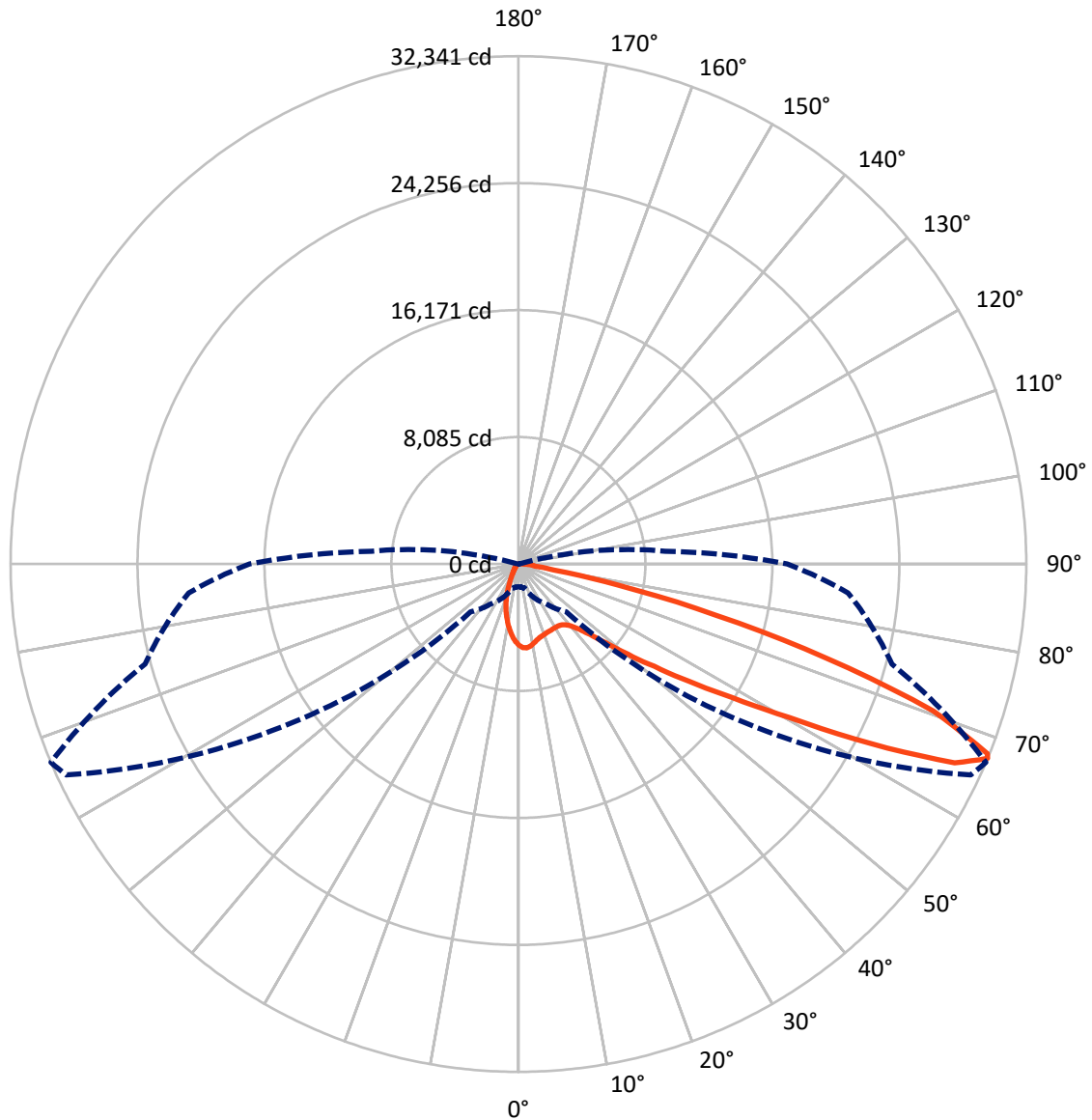


Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - Semi-Cutoff

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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	2438.5	0.0	2438.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	21047.3	0.0	21047.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	23485.9	0.0	23485.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.4	1.8
10°-20°	897.0	3.8
20°-30°	1304.2	5.6
30°-40°	2034.5	8.7
40°-50°	3604.1	15.3
50°-60°	5703.1	24.3
60°-70°	6532.1	27.8
70°-80°	2709.5	11.5
80°-90°	279.9	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°	23485.9	100.0
0°-180°	23485.9	100.0



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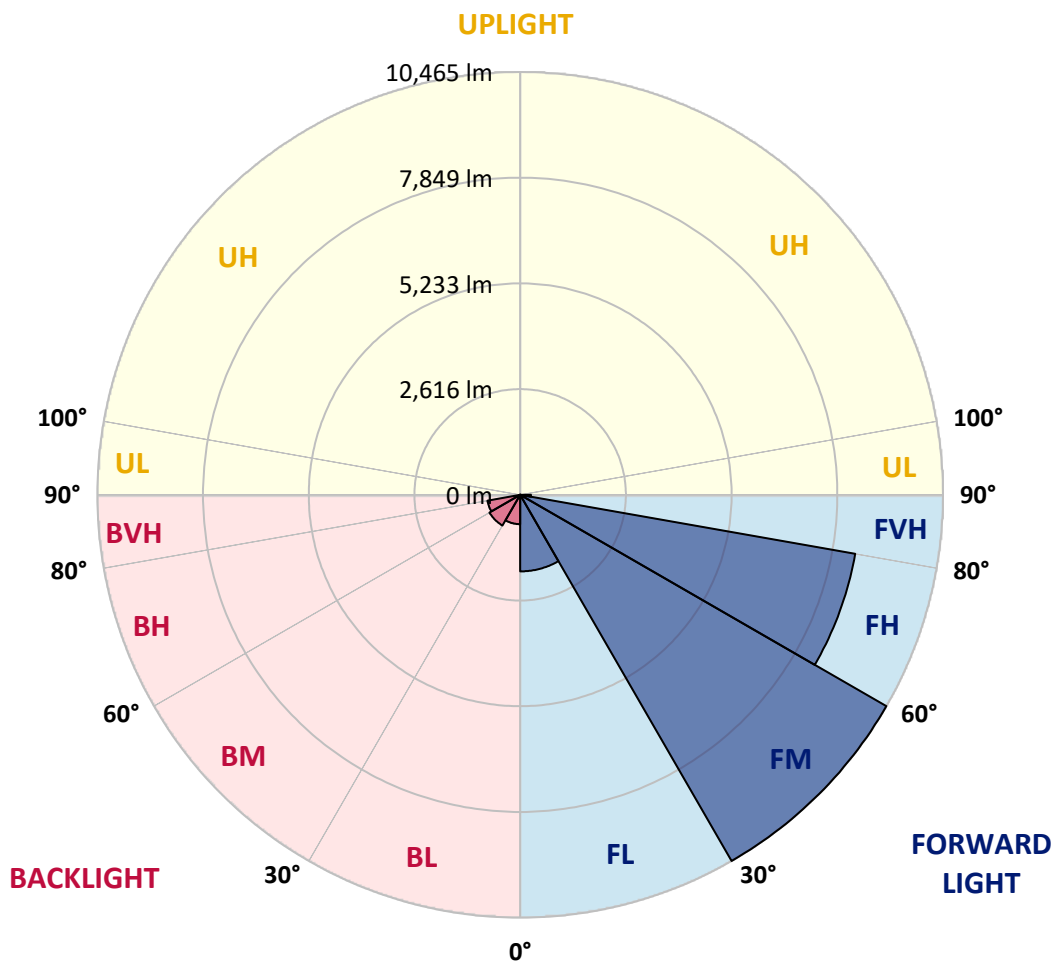
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1895.0	8.1			
FM (30°-60°)	10465.4	44.6			
FH (60°-80°)	8419.7	35.9			G4/12000
FVH (80°-90°)	267.3	1.1			G3/500
BL (0°-30°)	727.7	3.1	B2/1000		
BM (30°-60°)	876.4	3.7	B1/1000		
BH (60°-80°)	821.9	3.5	B2/1000		G2/1000
BVH (80°-90°)	12.6	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°	5179.4	5179.4	5179.4	5179.4	5179.4	5179.4	5179.4	5179.4	5179.4	5179.4	5179.4
2.5°	5354.8	5365.8	5364.5	5372.7	5391.8	5393.2	5374.0	5337.0	5328.8	5280.9	5197.4
5°	4938.4	4970.0	4989.0	5067.2	5154.8	5260.4	5339.7	5368.5	5364.5	5330.3	5204.2
7.5°	4463.0	4494.6	4516.5	4608.2	4724.6	4905.6	5112.3	5282.3	5297.3	5334.2	5198.8
10°	4146.7	4152.1	4182.1	4270.0	4391.9	4576.8	4823.3	5120.6	5165.9	5301.3	5184.9
12.5°	3886.3	3890.5	3930.2	4024.6	4154.8	4341.1	4600.0	4943.9	5013.7	5260.4	5182.2
15°	3701.3	3716.5	3752.1	3850.8	3989.1	4174.1	4439.8	4813.7	4897.3	5245.3	5206.8
17.5°	3639.8	3656.2	3667.2	3738.3	3864.4	4045.2	4317.9	4728.8	4823.3	5253.5	5254.8
20°	3704.2	3716.5	3691.9	3709.6	3787.8	3949.4	4215.0	4656.3	4768.6	5263.1	5316.4
22.5°	3943.9	3949.4	3882.3	3804.1	3790.5	3879.5	4134.3	4598.7	4719.2	5289.1	5389.1
25°	4354.9	4345.2	4235.7	4067.2	3908.3	3867.2	4086.3	4563.1	4694.5	5316.4	5464.4
27.5°	4850.8	4864.4	4713.8	4468.4	4165.8	3949.4	4079.6	4547.9	4683.7	5335.7	5530.1
30°	5453.5	5472.7	5300.1	4991.8	4557.6	4152.1	4142.5	4545.2	4676.8	5323.4	5535.6
32.5°	6068.6	6091.9	5956.2	5638.4	5080.9	4491.9	4284.9	4575.3	4690.5	5280.9	5504.2
35°	6712.3	6745.3	6654.9	6382.3	5790.5	4982.2	4535.6	4667.1	4754.9	5276.7	5472.7
37.5°	7601.5	7631.6	7461.7	7172.6	6649.3	5639.7	4938.4	4839.8	4906.9	5342.5	5480.9
40°	8928.9	8924.8	8486.4	8044.0	7593.3	6475.4	5504.2	5152.0	5186.4	5541.1	5582.2
42.5°	10375.5	10368.5	9720.6	9048.0	8641.2	7504.3	6248.0	5691.8	5668.6	5907.0	5845.2
45°	11490.5	11489.1	10960.4	10202.8	9902.8	8685.1	7209.6	6442.6	6406.9	6501.5	6330.1
47.5°	11965.9	11974.0	11708.2	11175.5	11301.4	10282.3	8422.0	7530.2	7476.9	7438.4	7178.1
50°	11596.0	11612.4	11634.4	11530.3	12327.5	12428.9	10048.0	9063.1	9037.0	8865.8	8459.0
52.5°	10387.8	10471.4	10728.8	11059.0	12683.7	14489.2	12597.4	10967.2	10827.5	10645.4	10197.4
55°	8352.1	8443.9	8932.9	9734.4	12153.6	15842.6	16170.0	13422.0	13189.2	12645.4	11998.8
57.5°	5527.5	5669.9	6379.6	7398.7	10613.8	16060.4	19734.4	16828.9	16017.9	14528.8	13800.1
60°	3045.3	3182.2	3952.2	4875.5	7665.9	14983.6	22131.7	21264.6	19831.7	16634.5	15987.9
62.5°	1875.3	1949.3	2517.8	3376.8	4597.3	11826.1	22627.6	26838.7	25179.8	19345.4	18630.3
65°	1493.2	1524.7	1802.8	2760.3	3295.9	7034.3	21026.3	31088.0	30534.6	22627.6	20996.1
67°	1449.3	1461.6	1593.1	2369.9	3106.9	4312.4	17615.3	31779.8	32341.4	24613.9	21070.0
67.5°	1458.8	1472.6	1597.2	2261.7	3101.4	3963.1	16439.9	31507.2	32216.8	24771.5	20742.7
70°	1406.8	1449.3	1828.8	2260.2	2949.3	3293.1	9845.3	27299.0	28037.3	23016.6	17600.1
72.5°	498.6	501.3	790.4	1828.8	3206.9	3328.8	4943.9	20012.5	20559.1	17607.0	12689.2
75°	295.9	252.1	263.1	520.6	3064.4	3232.9	2852.1	12787.8	12991.8	10089.1	6426.0
77.5°	204.2	178.0	183.6	230.1	1167.2	3187.6	2265.7	6668.6	6450.8	3538.5	1368.5
80°	116.4	102.8	109.7	201.4	424.7	2974.0	2137.0	2704.2	2305.5	600.0	378.0
82.5°	61.7	52.0	63.1	165.7	295.9	1853.5	2141.1	1306.9	1035.7	202.7	257.5
85°	21.9	17.7	30.2	113.6	197.3	568.4	1985.0	1098.6	863.0	98.6	195.9
87.5°	4.1	4.1	12.3	46.6	79.5	174.0	1173.9	652.1	436.9	58.8	134.2
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°	5179.4	5179.4	5179.4	5179.4	5179.4	5179.4	5179.4	5179.4	5179.4	5179.4	5179.4
2.5°	5163.1	5104.2	5024.7	4927.5	4812.4	4711.0	4635.7	4557.6	4541.1	4513.8	4509.6
5°	5128.9	5027.5	4830.1	4604.2	4363.1	4145.3	3968.5	3811.0	3741.1	3680.8	3674.0
7.5°	5078.1	4926.0	4590.5	4226.0	3849.3	3507.0	3216.6	3010.9	2821.9	2731.6	2717.8
10°	5019.2	4801.4	4320.6	3815.1	3294.5	2810.9	2379.5	2017.9	1798.6	1668.5	1652.1
12.5°	4964.5	4679.5	4045.2	3389.0	2697.3	2050.7	1495.9	1150.6	920.6	827.3	816.5
15°	4938.4	4580.8	3787.8	2953.4	2072.6	1305.4	817.7	632.9	557.6	535.6	534.2
17.5°	4935.6	4497.4	3535.6	2502.8	1452.1	758.9	532.9	486.3	471.3	465.7	465.7
20°	4934.3	4417.9	3283.6	2035.6	921.9	505.4	443.9	432.9	421.9	415.0	415.0
22.5°	4949.3	4346.5	3020.6	1558.9	580.8	409.5	390.5	379.4	365.8	356.2	354.8
25°	4964.5	4291.8	2752.0	1109.5	420.5	356.2	337.0	322.0	302.8	290.4	289.1
27.5°	4967.2	4223.3	2464.4	742.4	352.0	311.0	286.3	263.1	241.0	228.8	227.5
30°	4926.0	4108.3	2145.2	501.3	311.0	269.9	237.1	212.3	191.8	182.1	182.1
32.5°	4845.3	3965.7	1794.5	378.0	276.7	231.6	195.9	172.7	158.9	154.8	153.4
35°	4772.6	3812.3	1434.2	320.5	247.9	195.9	160.3	145.2	137.0	135.6	134.2
37.5°	4730.1	3689.1	1095.9	290.4	220.5	164.4	135.6	124.7	120.6	117.8	119.1
40°	4763.1	3586.4	809.6	265.8	193.1	137.0	115.1	109.7	105.6	104.2	104.2
42.5°	4906.9	3568.5	601.3	243.8	167.2	113.6	100.0	95.8	93.2	91.7	93.2
45°	5285.0	3678.1	467.1	223.3	141.2	95.8	84.9	83.5	82.1	82.1	82.1
47.5°	5853.4	3904.2	389.1	200.1	117.8	82.1	74.0	72.7	71.2	72.7	72.7
50°	6816.5	4317.9	348.0	176.6	97.2	69.9	63.1	63.1	63.1	63.1	64.4
52.5°	8280.8	5131.6	320.5	153.4	79.5	58.8	53.4	53.4	54.7	54.7	56.1
55°	9912.4	6211.1	295.9	130.2	67.2	49.2	43.8	45.3	46.6	48.0	48.0
57.5°	11682.3	7407.0	275.3	106.9	57.5	39.7	37.0	38.4	39.7	42.5	42.5
60°	13818.0	8701.4	245.1	83.5	48.0	31.5	28.7	31.5	35.7	38.4	39.7
62.5°	16163.2	9953.5	206.9	65.8	39.7	24.7	23.3	28.7	34.2	37.0	38.4
65°	17765.9	10346.7	158.9	53.4	30.2	17.7	19.1	26.1	32.9	37.0	37.0
67°	17116.7	9380.9	130.2	45.3	24.7	13.7	17.7	26.1	32.9	35.7	37.0
67.5°	16666.0	9002.9	124.7	43.8	23.3	13.7	17.7	26.1	32.9	37.0	37.0
70°	13560.5	6763.1	104.2	32.9	19.1	12.3	15.1	24.7	31.5	35.7	35.7
72.5°	9422.1	4169.9	93.2	23.3	16.3	11.0	13.7	23.3	30.2	34.2	35.7
75°	4479.5	1509.6	79.5	17.7	15.1	9.6	12.3	23.3	30.2	34.2	34.2
77.5°	913.7	350.7	64.4	15.1	12.3	9.6	11.0	21.9	28.7	32.9	32.9
80°	300.0	135.6	48.0	13.7	12.3	9.6	11.0	20.5	28.7	31.5	32.9
82.5°	216.4	68.5	31.5	13.7	12.3	9.6	9.6	20.5	27.4	31.5	31.5
85°	165.7	48.0	20.5	13.7	12.3	9.6	9.6	19.1	26.1	30.2	30.2
87.5°	109.7	19.1	16.3	13.7	12.3	9.6	9.6	19.1	24.7	28.7	30.2
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)