

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: P269312

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269312
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA 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: 21409.1 lumens
Efficiency: N/A
Efficacy: 76.7 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): 279
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

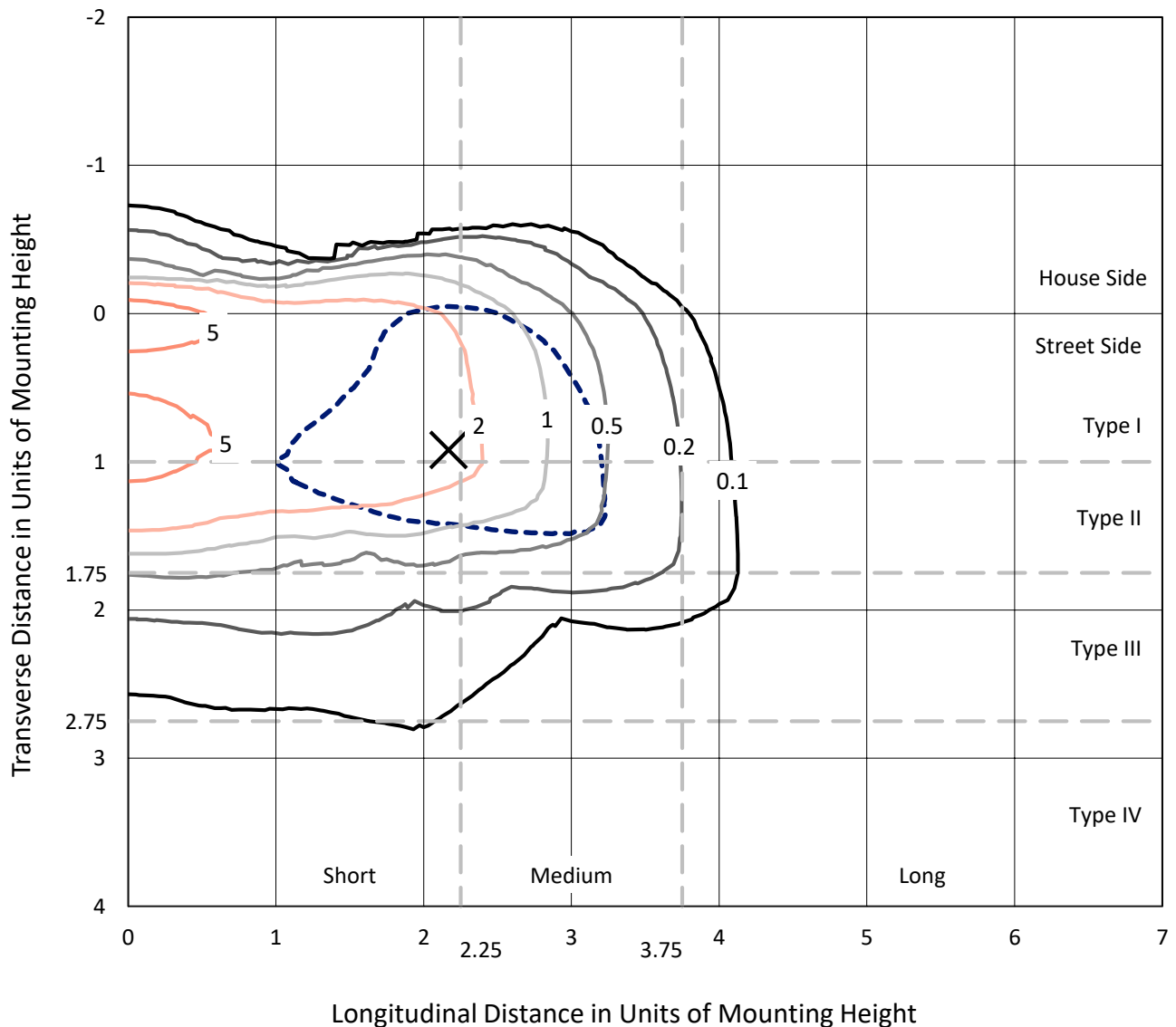


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

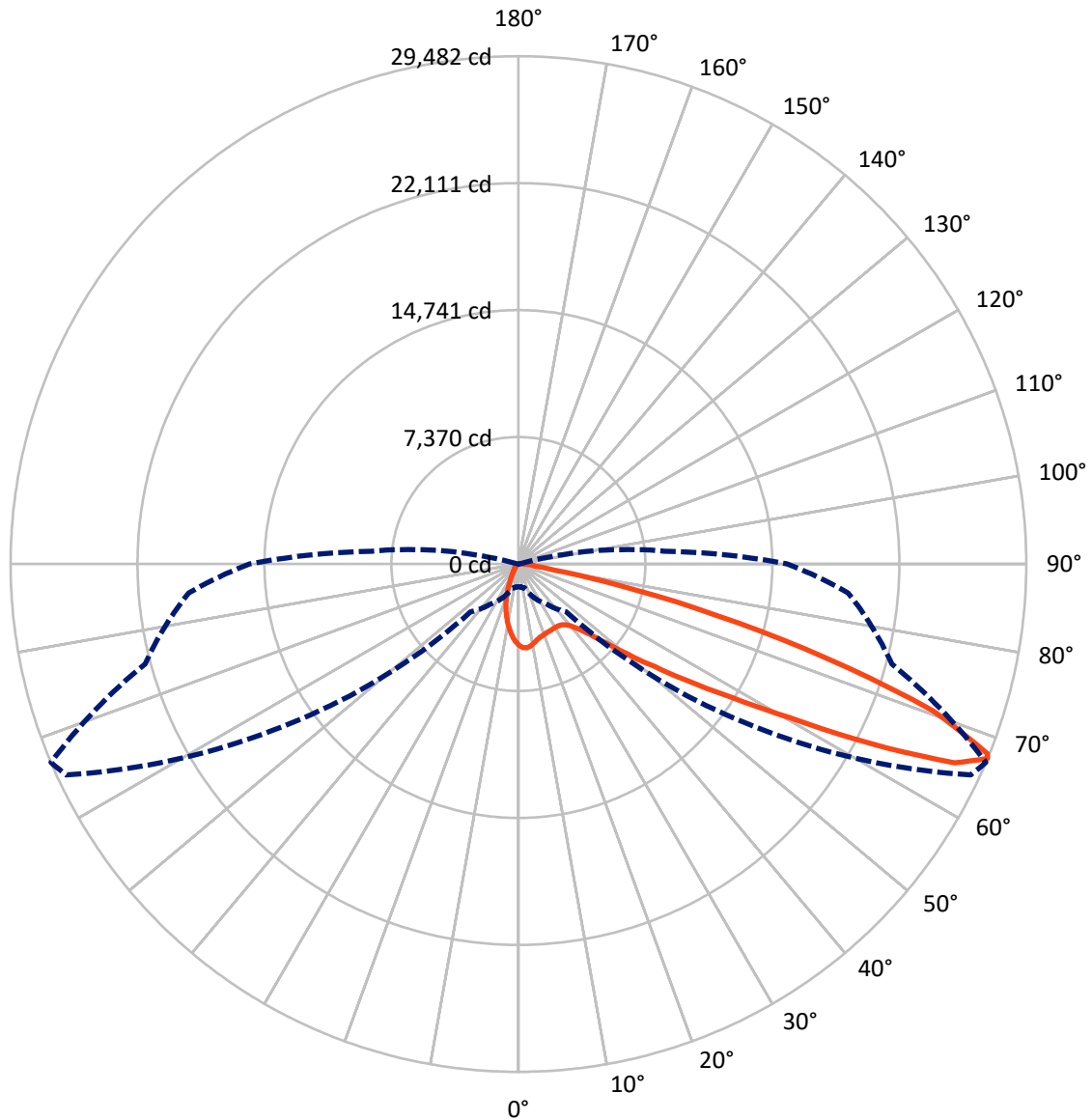


Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - Semi-Cutoff

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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	2222.9	0.0	2222.9
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	19186.2	0.0	19186.2
	% Fixture	89.6	0.0	89.6
Total	Lumens	21409.1	0.0	21409.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.2	1.8
10°-20°	817.7	3.8
20°-30°	1188.8	5.6
30°-40°	1854.6	8.7
40°-50°	3285.4	15.3
50°-60°	5198.8	24.3
60°-70°	5954.5	27.8
70°-80°	2469.9	11.5
80°-90°	255.1	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°	21409.1	100.0
0°-180°	21409.1	100.0

Coefficient of Utilization



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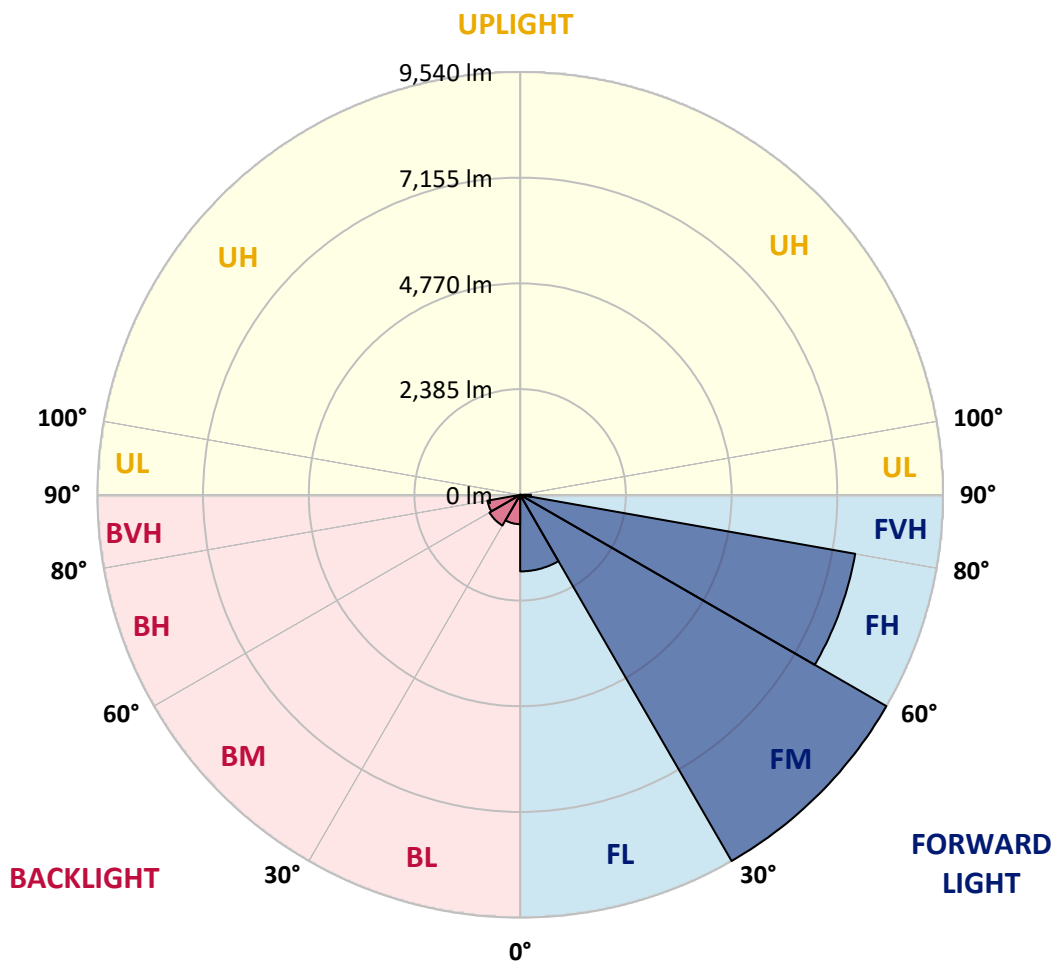
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1727.4	8.1			
FM (30°-60°)	9539.9	44.6			
FH (60°-80°)	7675.2	35.9			G4/12000
FVH (80°-90°)	243.6	1.1			G3/500
BL (0°-30°)	663.3	3.1	B2/1000		
BM (30°-60°)	798.9	3.7	B1/1000		
BH (60°-80°)	749.2	3.5	B2/1000		G2/1000
BVH (80°-90°)	11.5	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°	4721.5	4721.5	4721.5	4721.5	4721.5	4721.5	4721.5	4721.5	4721.5	4721.5	4721.5
2.5°	4881.3	4891.4	4890.1	4897.6	4915.0	4916.3	4898.7	4865.1	4857.7	4813.8	4737.8
5°	4501.6	4530.4	4547.8	4619.1	4699.0	4795.2	4867.6	4893.7	4890.1	4858.8	4743.9
7.5°	4068.5	4097.1	4117.1	4200.7	4307.0	4471.8	4660.2	4815.2	4828.8	4862.5	4739.0
10°	3780.0	3784.9	3812.3	3892.4	4003.4	4172.1	4396.8	4667.9	4708.9	4832.6	4726.5
12.5°	3542.6	3546.4	3582.6	3668.8	3787.4	3957.3	4193.3	4506.6	4570.3	4795.2	4723.9
15°	3374.2	3387.9	3420.2	3510.1	3636.2	3805.0	4047.1	4388.1	4464.2	4781.4	4746.5
17.5°	3317.9	3332.9	3343.0	3407.8	3522.8	3687.5	3936.1	4310.6	4396.8	4789.0	4790.1
20°	3376.5	3387.9	3365.4	3381.6	3452.7	3600.0	3842.4	4244.5	4346.9	4797.7	4846.4
22.5°	3595.1	3600.0	3539.0	3467.7	3455.3	3536.4	3768.7	4192.0	4302.0	4821.5	4912.6
25°	3969.7	3960.9	3861.2	3707.6	3562.7	3525.2	3725.0	4159.5	4279.4	4846.4	4981.2
27.5°	4421.7	4434.3	4297.0	4073.4	3797.4	3600.0	3718.8	4145.8	4269.5	4863.9	5041.2
30°	4971.2	4988.6	4831.4	4550.5	4154.5	3784.9	3776.1	4143.3	4263.1	4852.6	5046.1
32.5°	5531.9	5553.1	5429.5	5139.8	4631.7	4094.7	3906.1	4170.8	4275.8	4813.8	5017.5
35°	6118.9	6148.8	6066.3	5818.0	5278.4	4541.7	4134.5	4254.5	4334.4	4810.2	4988.6
37.5°	6929.3	6956.7	6801.8	6538.5	6061.5	5141.1	4501.6	4411.8	4473.0	4870.2	4996.3
40°	8139.4	8135.5	7735.9	7332.7	6921.8	5902.9	5017.5	4696.5	4727.7	5051.2	5088.5
42.5°	9458.0	9451.7	8861.2	8248.0	7877.1	6840.7	5695.6	5188.5	5167.3	5384.6	5328.3
45°	10474.4	10473.2	9991.2	9300.6	9027.2	7917.0	6572.1	5872.8	5840.4	5926.5	5770.4
47.5°	10907.8	10915.2	10673.0	10187.1	10302.1	9373.0	7677.3	6864.3	6815.6	6780.6	6543.4
50°	10570.5	10585.5	10605.6	10510.7	11237.3	11329.9	9159.5	8261.6	8237.9	8081.8	7711.1
52.5°	9469.3	9545.4	9780.1	10081.0	11562.1	13207.9	11483.5	9997.3	9870.0	9704.0	9295.7
55°	7613.6	7697.2	8143.0	8873.5	11078.8	14441.7	14740.1	12235.2	12022.8	11527.1	10937.8
57.5°	5038.7	5168.6	5815.4	6744.5	9675.3	14640.2	17989.4	15340.7	14601.5	13244.2	12579.9
60°	2775.9	2900.8	3602.7	4444.3	6987.9	13658.6	20174.7	19384.2	18078.0	15163.5	14574.0
62.5°	1709.6	1776.9	2295.2	3078.1	4190.8	10780.4	20626.7	24465.2	22953.1	17634.6	16982.8
65°	1361.1	1389.9	1643.3	2516.2	3004.6	6412.3	19167.0	28338.9	27834.4	20626.7	19139.5
67°	1321.1	1332.4	1452.3	2160.3	2832.1	3931.1	16057.6	28969.5	29481.6	22437.3	19206.9
67.5°	1329.9	1342.3	1456.1	2061.7	2827.1	3612.7	14986.2	28721.0	29367.8	22581.0	18908.5
70°	1282.5	1321.1	1667.1	2060.4	2688.5	3002.0	8974.6	24884.8	25557.9	20981.4	16043.8
72.5°	454.5	457.1	720.5	1667.1	2923.4	3034.5	4506.6	18242.9	18741.1	16050.0	11567.0
75°	269.8	229.7	239.8	474.6	2793.4	2947.0	2599.9	11656.9	11843.1	9196.9	5857.8
77.5°	186.0	162.4	167.4	209.8	1064.0	2905.7	2065.5	6078.9	5880.3	3225.5	1247.4
80°	106.1	93.7	99.9	183.6	387.1	2711.1	1948.1	2464.9	2101.7	547.0	344.7
82.5°	56.2	47.4	57.4	151.1	269.8	1689.5	1951.7	1191.3	944.1	184.8	234.7
85°	20.0	16.2	27.5	103.7	179.8	518.2	1809.5	1001.5	786.6	89.9	178.6
87.5°	3.8	3.8	11.3	42.5	72.5	158.6	1070.2	594.4	398.4	53.7	122.3
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°	4721.5	4721.5	4721.5	4721.5	4721.5	4721.5	4721.5	4721.5	4721.5	4721.5	4721.5
2.5°	4706.5	4652.9	4580.4	4491.7	4386.9	4294.3	4225.7	4154.5	4139.6	4114.5	4110.9
5°	4675.3	4582.9	4403.0	4197.1	3977.2	3778.7	3617.7	3473.9	3410.3	3355.3	3349.2
7.5°	4629.1	4490.4	4184.6	3852.4	3509.0	3196.8	2932.1	2744.7	2572.3	2490.0	2477.4
10°	4575.3	4376.8	3938.4	3477.8	3003.3	2562.4	2169.0	1839.4	1639.5	1521.0	1506.0
12.5°	4525.4	4265.7	3687.5	3089.5	2458.8	1869.4	1363.6	1049.0	839.1	754.2	744.2
15°	4501.6	4175.9	3452.7	2692.3	1889.3	1190.1	745.6	576.9	508.3	488.3	487.1
17.5°	4499.3	4099.7	3222.9	2281.4	1323.7	691.9	485.8	443.4	429.6	424.5	424.5
20°	4498.0	4027.2	2993.2	1855.5	840.5	460.8	404.5	394.5	384.7	378.4	378.4
22.5°	4511.6	3962.2	2753.5	1421.1	529.6	373.3	355.9	345.8	333.5	324.6	323.4
25°	4525.4	3912.3	2508.7	1011.5	383.3	324.6	307.2	293.4	276.0	264.7	263.6
27.5°	4527.9	3849.9	2246.5	676.9	321.0	283.4	261.0	239.8	219.7	208.5	207.2
30°	4490.4	3744.9	1955.5	457.1	283.4	246.0	216.0	193.6	174.8	166.0	166.0
32.5°	4416.7	3615.0	1635.9	344.7	252.2	211.0	178.6	157.4	144.8	141.2	139.9
35°	4350.6	3475.3	1307.5	292.2	226.1	178.6	146.2	132.4	124.9	123.6	122.3
37.5°	4312.0	3362.9	998.9	264.7	201.0	149.8	123.6	113.6	110.0	107.3	108.7
40°	4341.9	3269.2	738.0	242.3	176.1	124.9	104.9	99.9	96.2	95.0	95.0
42.5°	4473.0	3252.9	548.1	222.3	152.4	103.7	91.2	87.5	84.9	83.6	84.9
45°	4817.6	3352.8	425.8	203.6	128.5	87.5	77.4	76.1	74.9	74.9	74.9
47.5°	5335.8	3558.9	354.7	182.4	107.3	74.9	67.5	66.1	64.9	66.1	66.1
50°	6213.8	3936.1	317.2	161.1	88.7	63.7	57.4	57.4	57.4	57.4	58.7
52.5°	7548.6	4677.7	292.2	139.9	72.5	53.7	48.7	48.7	49.9	49.9	51.3
55°	9036.0	5661.7	269.8	118.7	61.2	44.9	40.0	41.2	42.5	43.7	43.7
57.5°	10649.2	6751.9	250.9	97.3	52.5	36.2	33.7	34.9	36.2	38.6	38.6
60°	12596.0	7932.0	223.5	76.1	43.7	28.7	26.2	28.7	32.5	34.9	36.2
62.5°	14733.9	9073.3	188.6	59.9	36.2	22.5	21.2	26.2	31.3	33.7	34.9
65°	16195.0	9431.8	144.8	48.7	27.5	16.2	17.4	23.7	30.0	33.7	33.7
67°	15603.0	8551.3	118.7	41.2	22.5	12.4	16.2	23.7	30.0	32.5	33.7
67.5°	15192.1	8206.7	113.6	40.0	21.2	12.4	16.2	23.7	30.0	33.7	33.7
70°	12361.2	6165.1	95.0	30.0	17.4	11.3	13.7	22.5	28.7	32.5	32.5
72.5°	8588.9	3801.2	84.9	21.2	15.0	10.1	12.4	21.2	27.5	31.3	32.5
75°	4083.3	1376.2	72.5	16.2	13.7	8.8	11.3	21.2	27.5	31.3	31.3
77.5°	832.9	319.6	58.7	13.7	11.3	8.8	10.1	20.0	26.2	30.0	30.0
80°	273.4	123.6	43.7	12.4	11.3	8.8	10.1	18.8	26.2	28.7	30.0
82.5°	197.3	62.4	28.7	12.4	11.3	8.8	8.8	18.8	25.0	28.7	28.7
85°	151.1	43.7	18.8	12.4	11.3	8.8	8.8	17.4	23.7	27.5	27.5
87.5°	99.9	17.4	15.0	12.4	11.3	8.8	8.8	17.4	22.5	26.2	27.5
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)