

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: P191053

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191053
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 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: 25207.6 lumens
Efficiency: N/A
Efficacy: 90.3 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

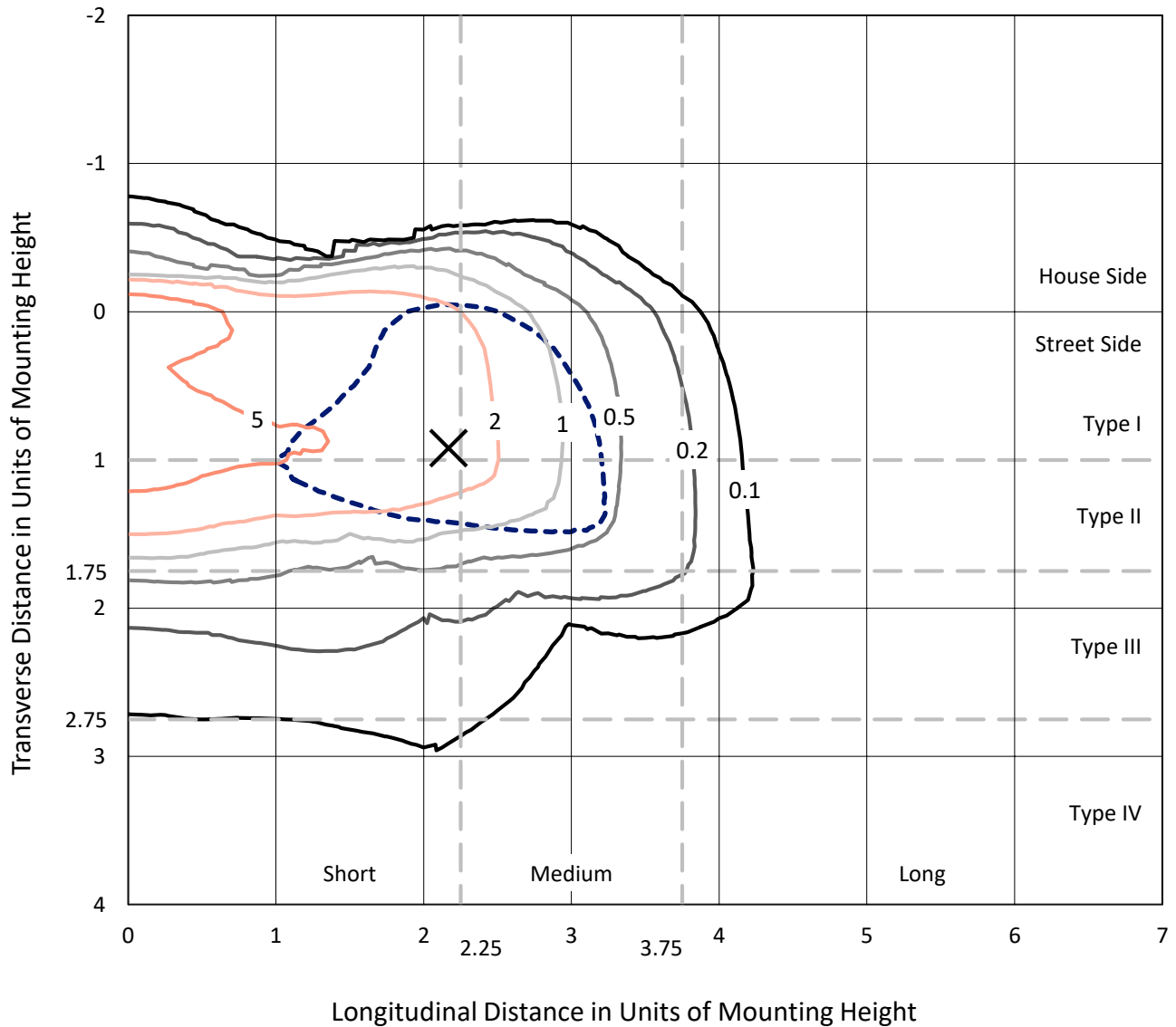


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Iso-Footcandle Lines of Horizontal Illumination

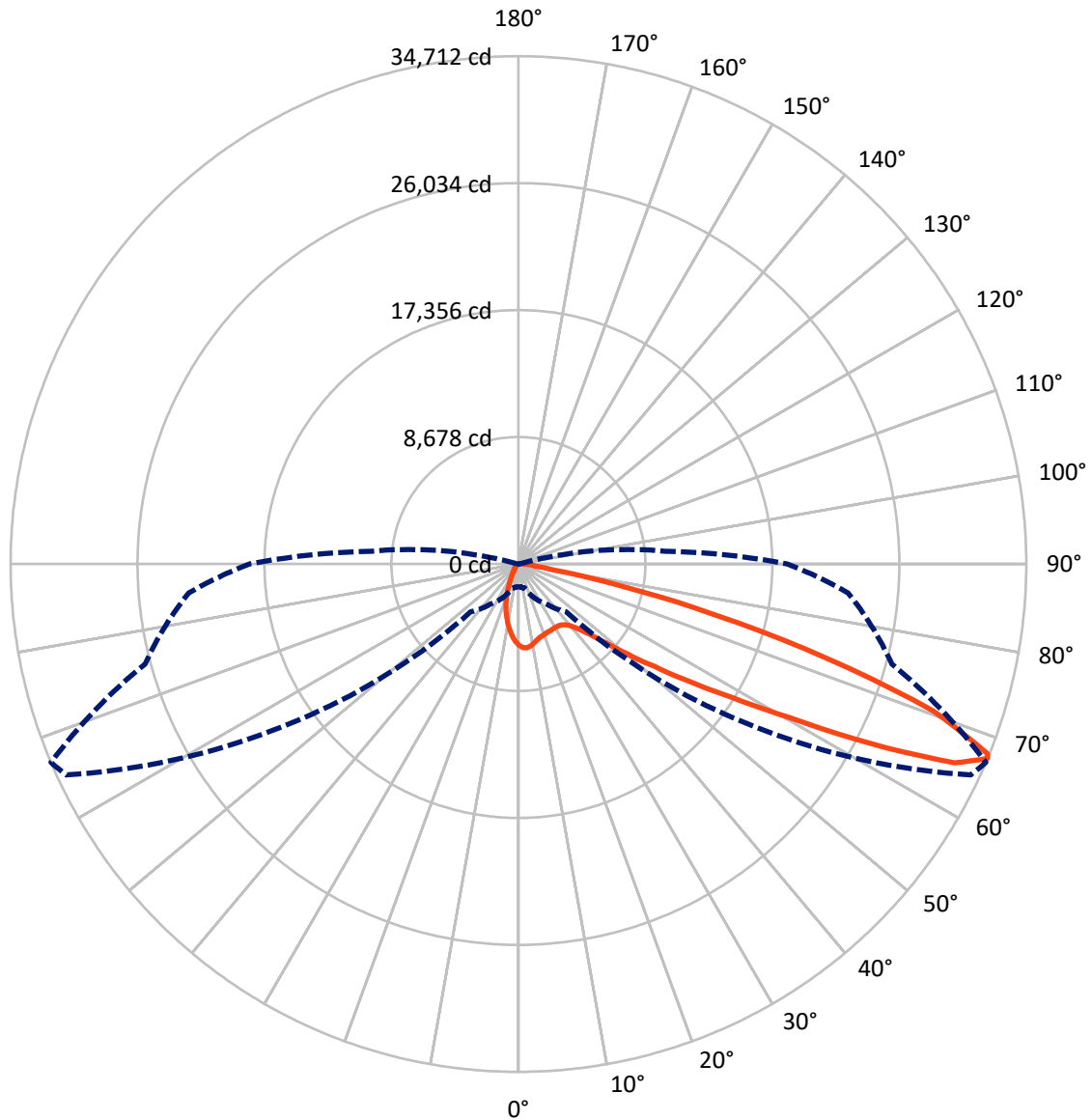
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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	2617.3	0.0	2617.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	22590.3	0.0	22590.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	25207.6	0.0	25207.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.3	1.8
10°-20°	962.8	3.8
20°-30°	1399.8	5.6
30°-40°	2183.7	8.7
40°-50°	3868.3	15.3
50°-60°	6121.2	24.3
60°-70°	7011.0	27.8
70°-80°	2908.1	11.5
80°-90°	300.4	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°	25207.6	100.0
0°-180°	25207.6	100.0



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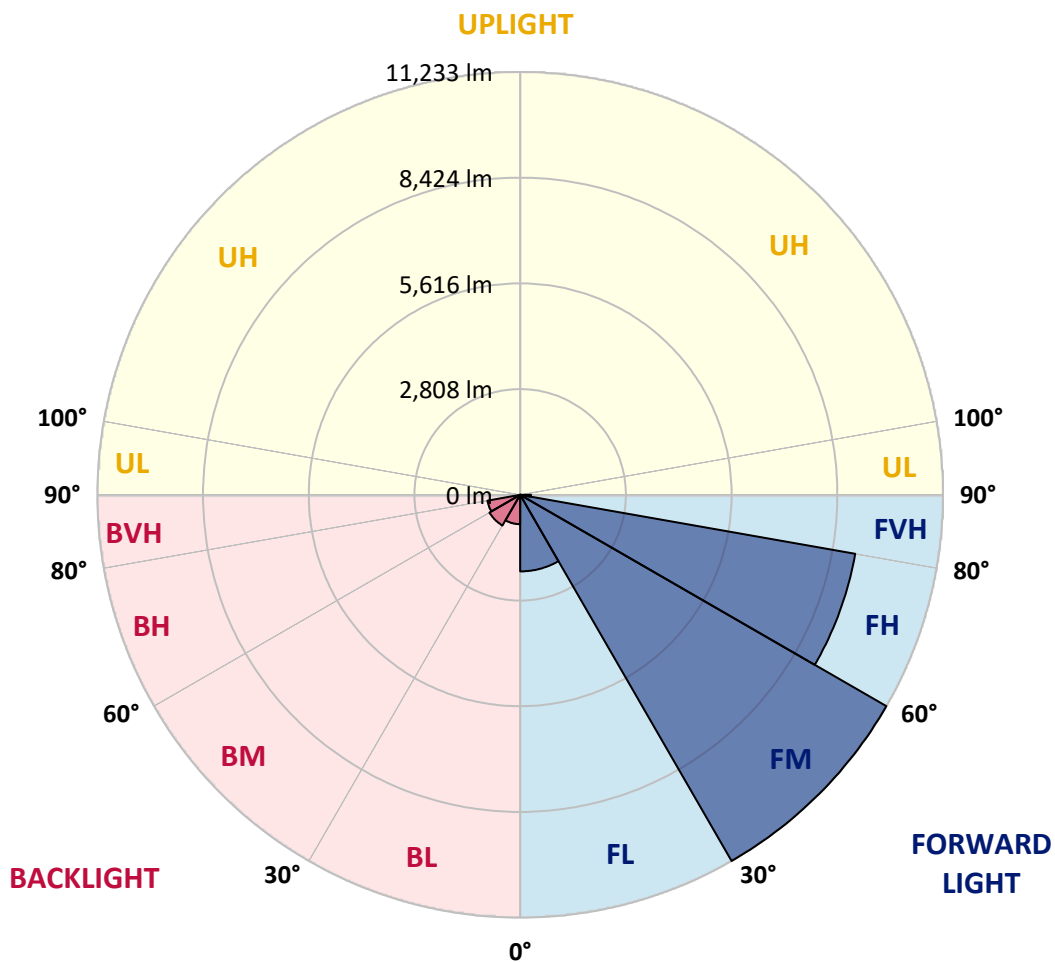
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2033.9	8.1			
FM (30°-60°)	11232.5	44.6			
FH (60°-80°)	9037.0	35.9			G4/12000
FVH (80°-90°)	286.9	1.1			G3/500
BL (0°-30°)	781.0	3.1	B2/1000		
BM (30°-60°)	940.6	3.7	B1/1000		
BH (60°-80°)	882.1	3.5	B2/1000		G2/1000
BVH (80°-90°)	13.5	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°	5559.2	5559.2	5559.2	5559.2	5559.2	5559.2	5559.2	5559.2	5559.2	5559.2	5559.2
2.5°	5747.3	5759.1	5757.7	5766.5	5787.1	5788.6	5768.0	5728.3	5719.4	5668.0	5578.4
5°	5300.4	5334.3	5354.8	5438.6	5532.7	5646.0	5731.2	5762.1	5757.7	5721.0	5585.6
7.5°	4790.3	4824.0	4847.6	4946.1	5071.1	5265.1	5487.1	5669.5	5685.7	5725.4	5579.8
10°	4450.6	4456.5	4488.8	4582.9	4713.8	4912.3	5176.9	5496.0	5544.5	5690.1	5565.1
12.5°	4171.2	4175.7	4218.2	4319.7	4459.5	4659.3	4937.3	5306.4	5381.3	5646.0	5562.1
15°	3972.7	3988.9	4027.2	4133.0	4281.5	4480.0	4765.2	5166.6	5256.3	5629.8	5588.6
17.5°	3906.5	3924.2	3936.0	4012.4	4147.8	4341.8	4634.4	5075.5	5176.9	5638.6	5640.0
20°	3975.7	3988.9	3962.5	3981.5	4065.4	4238.9	4524.1	4997.5	5118.1	5648.8	5706.2
22.5°	4233.0	4238.9	4166.8	4083.0	4068.3	4163.9	4437.4	4935.8	5065.1	5676.9	5784.2
25°	4674.1	4663.7	4546.2	4365.3	4194.7	4150.6	4385.9	4897.6	5038.7	5706.2	5865.0
27.5°	5206.3	5221.0	5059.3	4796.1	4471.2	4238.9	4378.5	4881.4	5027.0	5726.8	5935.6
30°	5853.2	5873.9	5688.6	5357.8	4891.6	4456.5	4446.2	4878.5	5019.6	5713.6	5941.5
32.5°	6513.4	6538.4	6392.8	6051.8	5453.4	4821.1	4599.1	4910.8	5034.4	5668.0	5907.6
35°	7204.4	7239.7	7142.8	6850.1	6214.9	5347.5	4868.1	5009.3	5103.4	5663.6	5873.9
37.5°	8158.6	8191.1	8008.7	7698.5	7136.8	6053.2	5300.4	5194.5	5266.6	5734.2	5882.7
40°	9583.4	9579.0	9108.5	8633.6	8149.8	6950.1	5907.6	5529.8	5566.6	5947.3	5991.4
42.5°	11136.0	11128.7	10433.3	9711.3	9274.7	8054.3	6706.1	6109.1	6084.1	6339.9	6273.8
45°	12332.9	12331.4	11763.8	10950.8	10628.8	9321.6	7738.2	6914.8	6876.6	6978.1	6794.2
47.5°	12843.0	12851.8	12566.6	11994.7	12129.9	11036.1	9039.4	8082.2	8024.8	7983.7	7704.4
50°	12446.0	12463.7	12487.3	12375.5	13231.3	13340.0	10784.7	9727.4	9699.5	9515.8	9079.1
52.5°	11149.2	11239.0	11515.4	11869.7	13613.5	15551.3	13520.9	11771.2	11621.2	11425.6	10944.9
55°	8964.4	9062.9	9587.8	10447.9	13044.5	17004.0	17355.4	14406.0	14156.0	13572.3	12878.3
57.5°	5932.6	6085.5	6847.2	7941.1	11391.9	17237.7	21181.1	18062.7	17192.2	15594.0	14811.8
60°	3268.4	3415.5	4241.8	5232.8	8227.8	16082.1	23754.1	22823.5	21285.5	17853.9	17159.9
62.5°	2012.9	2092.2	2702.4	3624.3	4934.3	12693.1	24286.4	28806.1	27025.5	20763.5	19996.0
65°	1602.7	1636.4	1934.9	2962.7	3537.6	7550.0	22567.6	33366.9	32773.0	24286.4	22535.3
67°	1555.6	1568.8	1710.0	2543.6	3334.6	4628.5	18906.6	34109.5	34712.3	26418.3	22614.7
67.5°	1565.8	1580.6	1714.4	2427.5	3328.8	4253.5	17645.1	33816.8	34578.5	26587.4	22263.3
70°	1510.0	1555.6	1962.8	2426.0	3165.5	3534.6	10567.1	29300.1	30092.6	24704.0	18890.4
72.5°	535.2	538.2	848.3	1962.8	3441.9	3572.9	5306.4	21479.6	22066.3	18897.8	13619.4
75°	317.6	270.6	282.3	558.7	3289.1	3470.0	3061.2	13725.2	13944.4	10828.8	6897.1
77.5°	219.1	191.2	197.0	247.0	1252.7	3421.4	2431.9	7157.4	6923.6	3797.8	1468.9
80°	125.0	110.3	117.6	216.1	455.8	3192.0	2293.7	2902.4	2474.5	643.9	405.8
82.5°	66.2	55.9	67.6	177.9	317.6	1989.3	2298.1	1402.7	1111.5	217.6	276.4
85°	23.5	19.1	32.3	122.0	211.8	610.2	2130.5	1179.2	926.3	105.9	210.2
87.5°	4.4	4.4	13.2	50.0	85.3	186.7	1260.1	699.9	469.0	63.2	144.1
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°	5559.2	5559.2	5559.2	5559.2	5559.2	5559.2	5559.2	5559.2	5559.2	5559.2	5559.2
2.5°	5541.5	5478.3	5393.1	5288.7	5165.2	5056.3	4975.5	4891.6	4874.1	4844.6	4840.2
5°	5504.8	5396.0	5184.3	4941.7	4682.9	4449.1	4259.5	4090.4	4015.4	3950.7	3943.4
7.5°	5450.4	5287.2	4926.9	4535.9	4131.5	3763.9	3452.3	3231.7	3028.9	2931.8	2917.0
10°	5387.2	5153.4	4637.3	4094.8	3536.0	3017.1	2553.9	2165.8	1930.5	1790.8	1773.2
12.5°	5328.3	5022.6	4341.8	3637.5	2895.1	2201.1	1605.5	1235.0	988.1	888.0	876.3
15°	5300.4	4916.7	4065.4	3169.9	2224.6	1401.2	877.8	679.2	598.4	574.9	573.5
17.5°	5297.5	4827.0	3794.8	2686.3	1558.5	814.6	571.9	521.9	505.7	499.9	499.9
20°	5296.0	4741.7	3524.3	2184.8	989.5	542.6	476.4	464.6	452.9	445.5	445.5
22.5°	5312.2	4665.3	3242.0	1673.2	623.4	439.7	419.0	407.2	392.6	382.3	380.8
25°	5328.3	4606.4	2953.9	1190.9	451.4	382.3	361.7	345.6	324.9	311.7	310.3
27.5°	5331.3	4532.9	2645.0	796.9	377.9	333.8	307.3	282.3	258.8	245.5	244.1
30°	5287.2	4409.4	2302.5	538.2	333.8	289.7	254.4	227.9	205.8	195.6	195.6
32.5°	5200.5	4256.5	1926.1	405.8	297.0	248.5	210.2	185.3	170.5	166.1	164.7
35°	5122.5	4091.8	1539.4	344.0	266.2	210.2	172.1	155.9	147.0	145.6	144.1
37.5°	5076.9	3959.5	1176.2	311.7	236.7	176.5	145.6	133.8	129.4	126.4	127.9
40°	5112.2	3849.3	869.0	285.2	207.4	147.0	123.5	117.6	113.2	111.7	111.7
42.5°	5266.6	3830.1	645.5	261.7	179.4	122.0	107.3	102.9	99.9	98.5	99.9
45°	5672.4	3947.8	501.3	239.7	151.4	102.9	91.1	89.7	88.2	88.2	88.2
47.5°	6282.6	4190.3	417.6	214.6	126.4	88.2	79.4	77.9	76.4	77.9	77.9
50°	7316.2	4634.4	373.5	189.7	104.3	75.0	67.6	67.6	67.6	67.6	69.2
52.5°	8887.9	5507.8	344.0	164.7	85.3	63.2	57.4	57.4	58.8	58.8	60.3
55°	10639.1	6666.4	317.6	139.6	72.0	52.9	47.1	48.5	50.0	51.5	51.5
57.5°	12538.7	7949.9	295.5	114.7	61.8	42.7	39.7	41.1	42.7	45.6	45.6
60°	14830.9	9339.3	263.2	89.7	51.5	33.9	30.9	33.9	38.3	41.1	42.7
62.5°	17348.0	10683.2	222.0	70.6	42.7	26.5	25.0	30.9	36.7	39.7	41.1
65°	19068.3	11105.2	170.5	57.4	32.3	19.1	20.6	27.9	35.3	39.7	39.7
67°	18371.4	10068.6	139.6	48.5	26.5	14.7	19.1	27.9	35.3	38.3	39.7
67.5°	17887.6	9662.8	133.8	47.1	25.0	14.7	19.1	27.9	35.3	39.7	39.7
70°	14554.4	7258.9	111.7	35.3	20.6	13.2	16.2	26.5	33.9	38.3	38.3
72.5°	10112.7	4475.6	99.9	25.0	17.6	11.8	14.7	25.0	32.3	36.7	38.3
75°	4807.9	1620.3	85.3	19.1	16.2	10.3	13.2	25.0	32.3	36.7	36.7
77.5°	980.7	376.4	69.2	16.2	13.2	10.3	11.8	23.5	30.9	35.3	35.3
80°	322.0	145.6	51.5	14.7	13.2	10.3	11.8	22.1	30.9	33.9	35.3
82.5°	232.3	73.6	33.9	14.7	13.2	10.3	10.3	22.1	29.4	33.9	33.9
85°	177.9	51.5	22.1	14.7	13.2	10.3	10.3	20.6	27.9	32.3	32.3
87.5°	117.6	20.6	17.6	14.7	13.2	10.3	10.3	20.6	26.5	30.9	32.3
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)