

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: P269320

Luminaire Tested: **GLEON-AF-05-LED-E1-SL3-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269320
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-7027-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22081.4 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-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

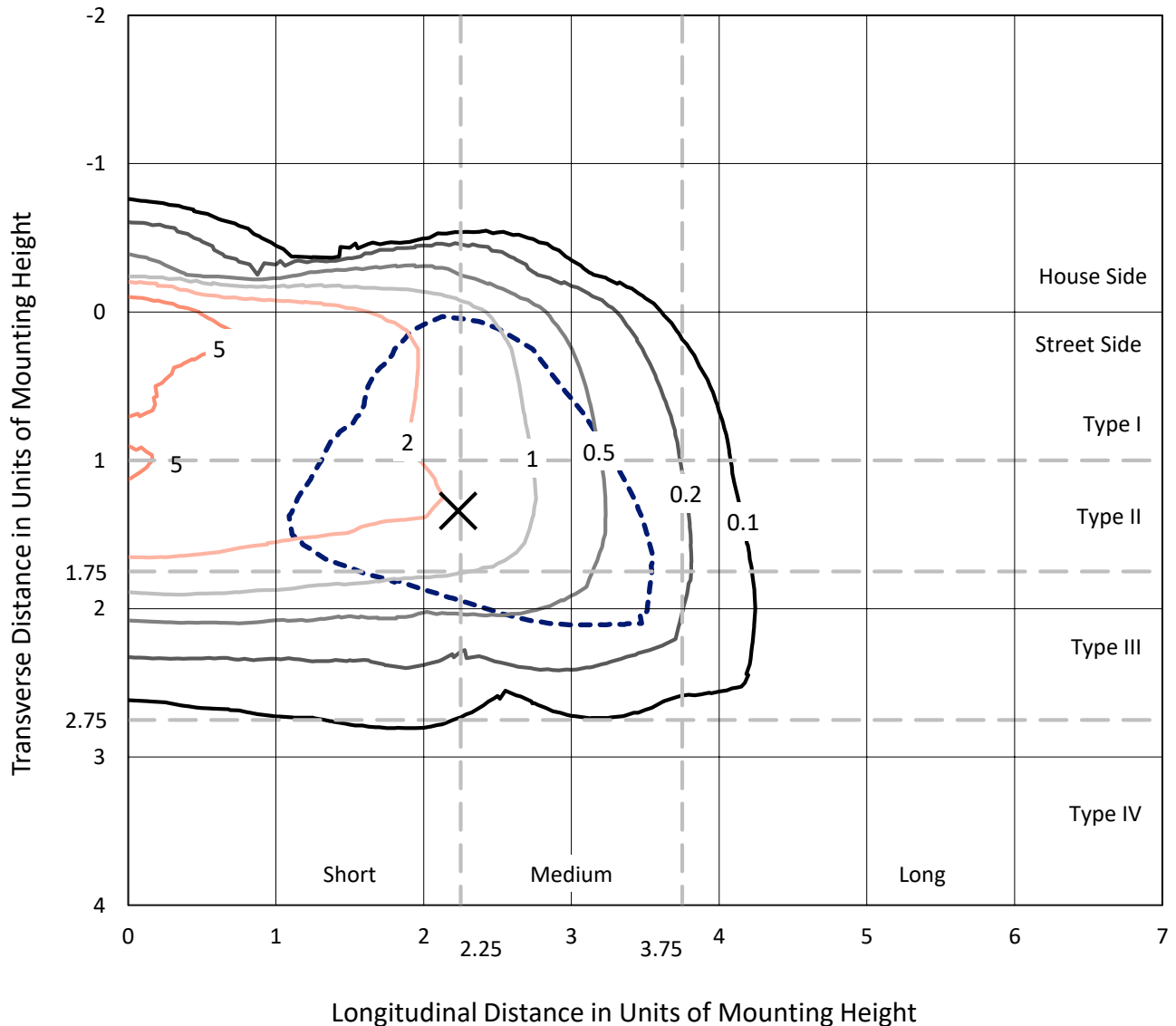


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

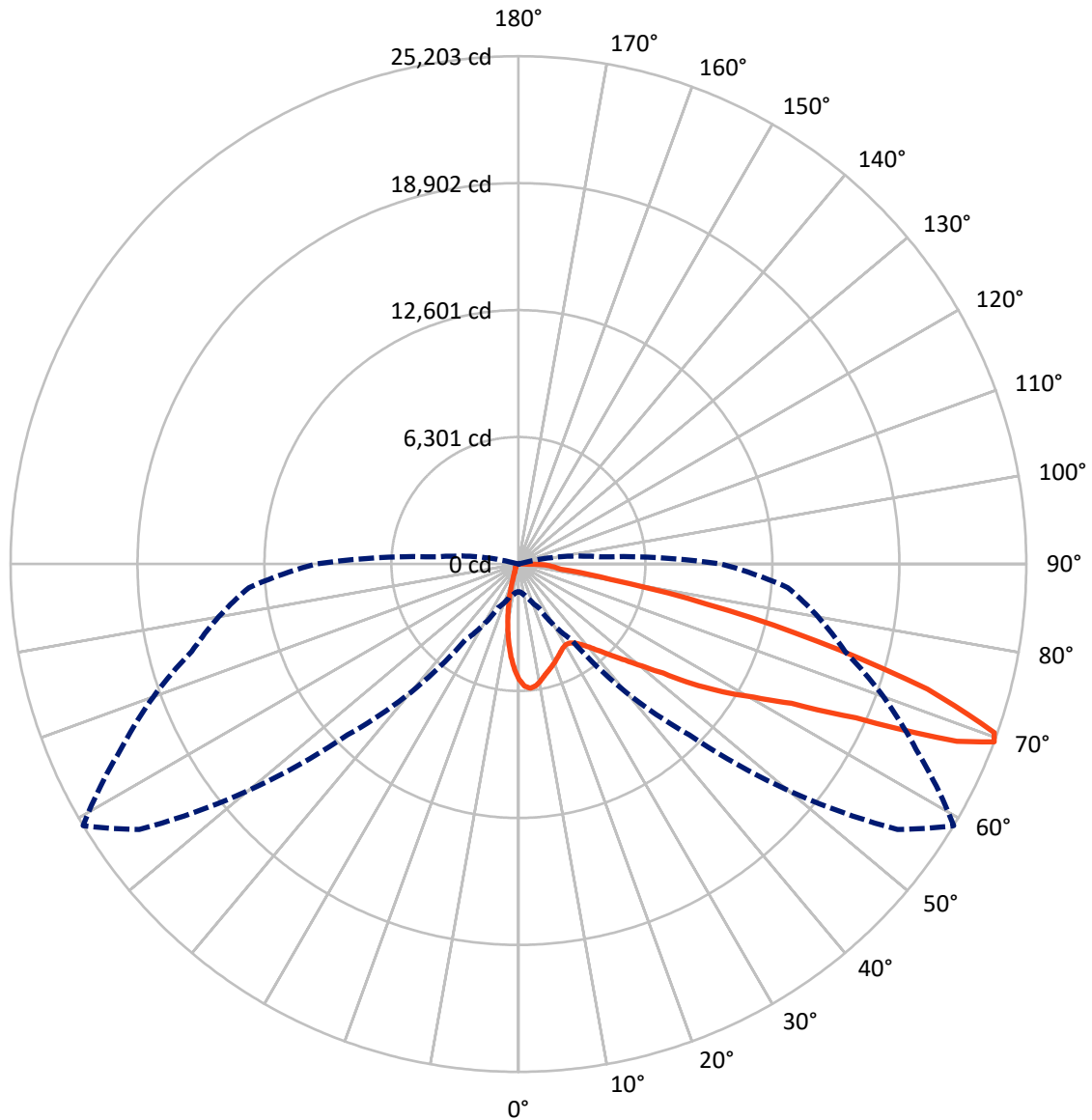


Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1798.2	0.0	1798.2
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	20283.1	0.0	20283.1
	% Fixture	91.9	0.0	91.9
Total	Lumens	22081.4	0.0	22081.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.5	2.1
10°-20°	964.0	4.4
20°-30°	1297.1	5.9
30°-40°	1883.4	8.5
40°-50°	3136.0	14.2
50°-60°	4892.0	22.2
60°-70°	6053.5	27.4
70°-80°	3067.8	13.9
80°-90°	321.0	1.5
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°	22081.4	100.0
0°-180°	22081.4	100.0

Coefficient of Utilization



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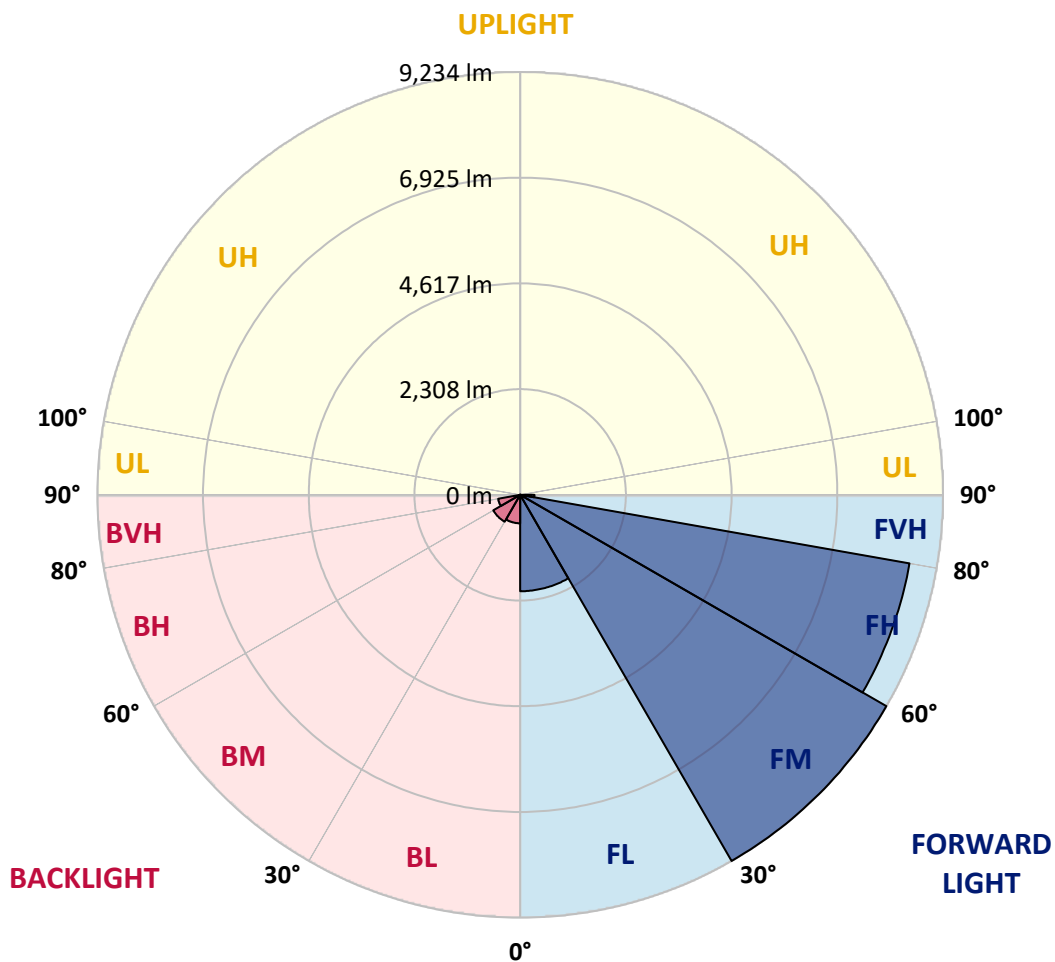
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2105.2	9.5			
FM	(30°-60°)	9233.8	41.8			
FH	(60°-80°)	8633.0	39.1			G4/12000
FVH	(80°-90°)	311.1	1.4			G3/500
BL	(0°-30°)	622.4	2.8	B2/1000		
BM	(30°-60°)	677.6	3.1	B1/1000		
BH	(60°-80°)	488.3	2.2	B1/500		G1/500
BVH	(80°-90°)	9.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5747.4	5747.4	5747.4	5747.4	5747.4	5747.4	5747.4	5747.4	5747.4	5747.4	5747.4
2.5°	6299.4	6296.8	6269.5	6257.0	6234.4	6186.9	6113.3	6074.6	6012.1	5903.5	5757.4
5°	6242.0	6271.8	6288.1	6289.5	6305.7	6288.1	6222.0	6189.5	6103.4	5928.5	5666.2
7.5°	5852.4	5863.5	5909.8	5949.7	6027.2	6100.7	6124.6	6110.8	6059.6	5872.3	5523.9
10°	5435.4	5446.6	5501.5	5554.0	5658.9	5772.5	5892.3	5917.2	5938.5	5792.5	5386.6
12.5°	5075.8	5086.9	5143.2	5211.7	5334.1	5474.0	5660.1	5701.3	5795.0	5716.3	5276.7
15°	4766.0	4771.1	4826.0	4910.9	5057.0	5236.8	5447.9	5513.9	5657.5	5662.6	5180.5
17.5°	4502.6	4515.2	4548.7	4630.0	4789.8	5012.1	5258.0	5352.9	5521.5	5617.6	5086.9
20°	4341.5	4353.9	4352.7	4397.7	4541.3	4778.5	5068.1	5181.9	5386.6	5571.4	5003.3
22.5°	4310.2	4310.2	4277.8	4271.6	4356.5	4555.0	4870.9	5009.6	5265.5	5551.4	4944.6
25°	4421.4	4416.4	4335.3	4269.0	4272.9	4391.5	4679.9	4844.6	5163.1	5565.2	4913.4
27.5°	4656.2	4649.9	4547.5	4421.4	4320.3	4319.1	4535.1	4712.4	5081.9	5630.0	4925.9
30°	4980.8	4978.2	4867.1	4708.6	4525.0	4356.5	4485.1	4646.2	5029.5	5747.4	4954.6
32.5°	5335.5	5331.7	5248.0	5080.8	4848.4	4525.0	4537.6	4672.4	5044.5	5903.5	5024.5
35°	5711.2	5705.0	5668.8	5522.7	5266.8	4835.9	4709.9	4814.7	5139.5	6137.0	5161.9
37.5°	6118.4	6124.6	6150.8	6011.0	5742.4	5271.8	4998.3	5069.4	5330.5	6454.2	5385.3
40°	6719.0	6717.6	6726.4	6542.9	6284.5	5804.8	5401.6	5424.1	5650.1	6875.0	5725.0
42.5°	7809.0	7732.8	7501.8	7127.2	6867.5	6414.3	5909.8	5886.1	6040.9	7395.7	6200.7
45°	9273.7	9111.2	8512.0	7794.0	7461.9	7101.0	6535.3	6459.3	6557.8	8021.2	6787.7
47.5°	10533.4	10365.0	9517.2	8488.3	8092.4	7752.8	7268.4	7130.9	7163.4	8721.7	7531.7
50°	10961.7	10879.4	10138.9	9092.6	8703.0	8573.2	8118.6	7951.3	7905.2	9532.0	8394.7
52.5°	10813.2	10807.0	10313.7	9484.7	9262.5	9422.2	9188.8	8995.2	8825.4	10386.2	9272.3
55°	10574.7	10605.8	10384.9	9828.0	9820.5	10197.6	10652.1	10491.0	9999.0	11314.0	10029.0
57.5°	9916.7	10050.2	10344.9	10477.3	10784.5	11170.3	11870.8	11965.8	11383.9	12024.4	10657.1
60°	8046.2	8339.7	9303.6	10571.0	12026.9	12988.4	13341.6	13422.8	12520.0	12615.0	11505.0
62.5°	5711.2	6011.0	7233.3	9377.2	12045.6	15376.9	15533.0	15214.7	13771.2	13490.2	12967.2
65°	3031.7	3262.6	4261.6	6768.9	10443.5	15931.4	19365.1	18416.2	15978.8	15212.2	14856.3
67.5°	1550.8	1620.7	2017.9	3312.6	7179.7	14150.8	22800.2	23468.1	19783.5	16920.3	14765.1
69°	1372.3	1413.5	1677.0	2394.9	4597.4	11985.6	22967.4	25202.5	21774.9	16778.0	13417.9
70°	1328.6	1364.7	1604.6	2167.6	3593.6	10051.6	22326.8	25050.1	22284.4	16236.1	12411.4
72.5°	1127.6	1158.8	1428.5	1915.4	2920.6	4989.5	18136.4	21226.8	19996.9	13525.2	8983.9
75°	754.1	856.5	1371.1	1795.5	2717.1	2834.4	11956.9	15339.5	14249.5	9122.6	4679.9
77.5°	181.1	194.8	387.1	1428.5	2484.8	2494.8	6149.5	9535.9	7777.7	3251.4	1106.4
80°	97.3	93.7	108.7	283.4	2313.8	2341.3	2768.2	4628.6	2777.0	539.4	364.6
82.5°	68.7	64.9	69.9	118.7	727.9	2132.7	2002.9	2095.1	1151.3	207.2	163.6
85°	25.0	23.7	38.6	107.3	228.4	1226.1	2057.7	1728.1	932.7	95.0	119.8
87.5°	8.8	7.5	15.0	58.7	69.9	521.9	1269.8	1306.0	367.0	57.4	56.1
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°	5747.4	5747.4	5747.4	5747.4	5747.4	5747.4	5747.4	5747.4	5747.4	5747.4	5747.4
2.5°	5696.3	5618.9	5476.5	5330.5	5195.5	5033.3	4952.0	4872.1	4838.5	4826.0	4767.2
5°	5531.5	5400.3	5098.2	4794.8	4515.2	4217.9	4021.8	3864.5	3772.2	3727.2	3656.0
7.5°	5320.4	5105.6	4647.4	4179.2	3743.3	3313.8	2995.5	2750.7	2582.2	2501.1	2427.3
10°	5115.7	4829.7	4177.9	3540.0	2948.1	2378.6	1939.1	1620.7	1417.2	1323.6	1263.6
12.5°	4932.1	4561.2	3724.7	2916.7	2173.9	1507.0	1060.1	806.6	680.5	636.8	615.6
15°	4768.6	4314.0	3296.4	2325.0	1472.1	861.6	579.3	493.2	473.2	473.2	470.7
17.5°	4613.8	4071.7	2883.1	1769.3	923.9	526.9	440.8	429.5	429.5	434.5	434.5
20°	4465.1	3840.9	2483.5	1269.8	581.8	418.3	398.3	395.9	398.3	404.5	404.5
22.5°	4337.7	3630.9	2110.2	871.5	432.1	377.1	367.0	363.4	364.6	368.3	370.8
25°	4242.9	3453.8	1758.2	590.5	372.1	343.4	332.2	325.8	321.0	321.0	323.4
27.5°	4183.0	3303.8	1417.2	429.5	334.6	312.2	294.6	284.8	273.4	267.2	269.8
30°	4139.2	3161.6	1097.5	350.9	299.7	277.1	254.7	238.5	222.3	214.8	217.3
32.5°	4123.0	3046.7	820.3	309.6	268.5	243.5	216.0	194.8	177.3	171.0	172.4
35°	4166.7	2955.6	600.5	279.7	243.5	212.3	181.1	157.4	143.5	139.9	141.2
37.5°	4281.6	2906.8	449.5	254.7	221.1	186.0	151.1	128.5	119.8	119.8	121.1
40°	4498.8	2905.6	360.8	237.2	201.0	161.1	124.9	108.7	103.7	106.1	107.3
42.5°	4816.1	2971.8	314.6	221.1	183.6	137.4	103.7	92.3	91.2	93.7	95.0
45°	5249.2	3092.9	289.7	207.2	164.7	114.9	87.5	79.9	79.9	83.6	84.9
47.5°	5780.0	3270.2	268.5	193.6	146.1	96.2	74.9	69.9	71.1	74.9	76.1
50°	6419.3	3493.7	247.3	178.6	132.4	79.9	64.9	61.2	62.4	67.5	68.7
52.5°	7147.3	3794.6	229.7	164.7	114.9	66.1	54.9	52.5	54.9	59.9	61.2
55°	7771.4	4064.3	208.5	153.6	92.3	54.9	44.9	44.9	47.4	53.7	54.9
57.5°	8372.2	4346.4	189.8	132.4	72.5	43.7	37.5	38.6	42.5	48.7	49.9
60°	9253.6	4824.7	167.4	111.1	54.9	34.9	31.3	32.5	37.5	43.7	44.9
62.5°	10750.7	5552.8	144.8	92.3	42.5	27.5	25.0	27.5	33.6	41.2	42.5
65°	12101.7	5848.7	118.7	77.4	32.5	21.2	21.2	25.0	32.5	40.0	41.2
67.5°	11348.8	4923.4	92.3	61.2	25.0	16.2	17.4	23.7	31.3	40.0	41.2
69°	10036.6	4025.7	78.6	48.7	21.2	15.0	16.2	23.7	31.3	38.6	40.0
70°	9014.0	3398.7	69.9	41.2	18.8	15.0	16.2	22.5	31.3	38.6	40.0
72.5°	6037.1	1835.4	56.1	30.0	17.4	13.7	13.7	22.5	30.0	37.5	38.6
75°	2594.7	507.0	44.9	21.2	15.0	12.4	12.4	21.2	28.7	36.2	38.6
77.5°	474.5	128.5	36.2	18.8	15.0	12.4	11.1	20.0	27.5	34.9	36.2
80°	188.6	63.7	28.7	16.2	13.7	11.1	10.1	18.8	26.2	33.6	34.9
82.5°	113.6	36.2	23.7	15.0	13.7	10.1	8.8	16.2	25.0	32.5	33.6
85°	92.3	25.0	18.8	15.0	12.4	10.1	7.5	15.0	22.5	31.3	32.5
87.5°	44.9	17.4	17.4	13.7	12.4	10.1	7.5	13.7	21.2	30.0	31.3
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)