

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: P191932

Luminaire Tested: **GLEON-AF-04-LED-E1-SL3-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191932
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-04-LED-E1-SL3-7050-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 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: 20513 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 225
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

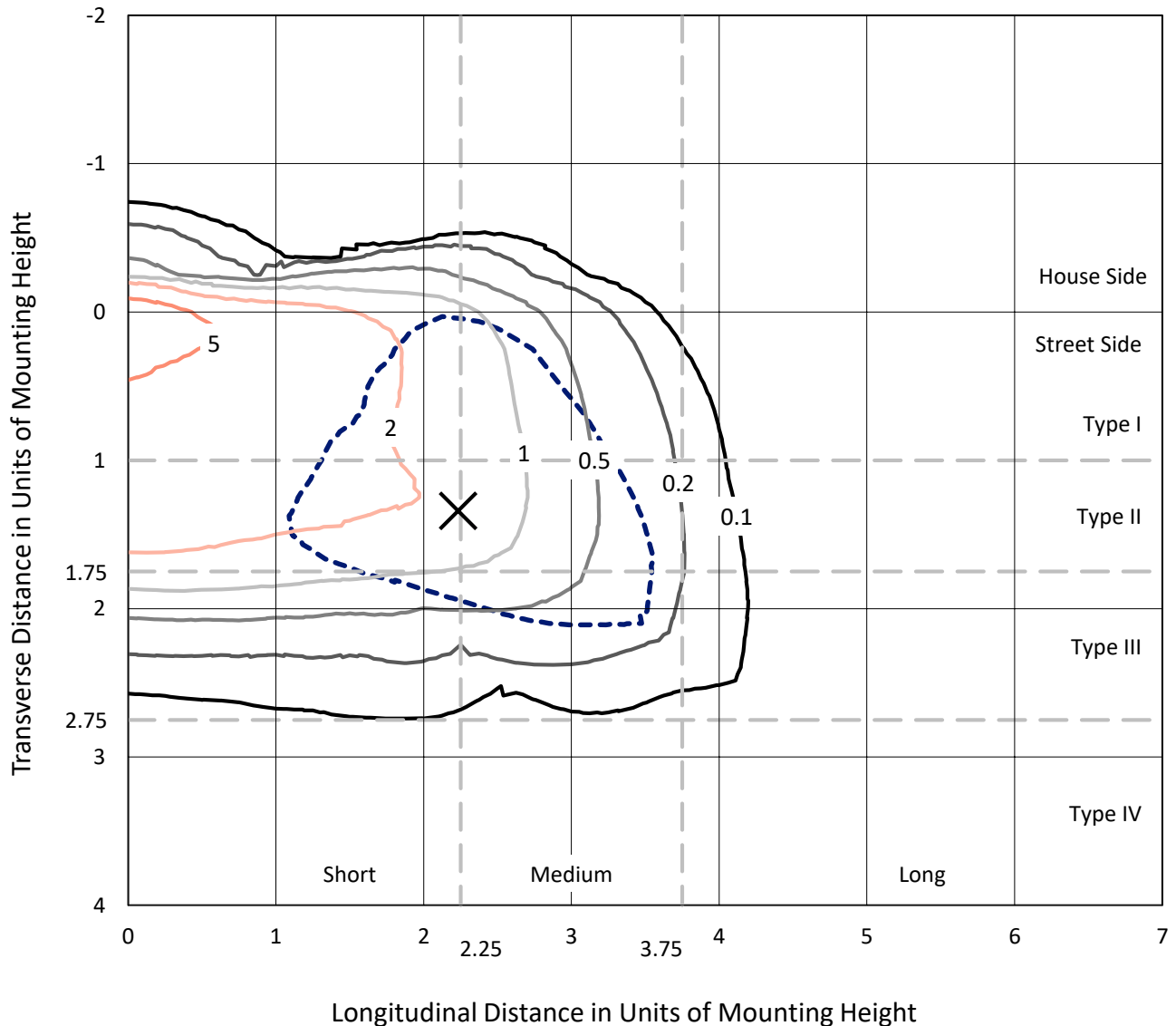


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

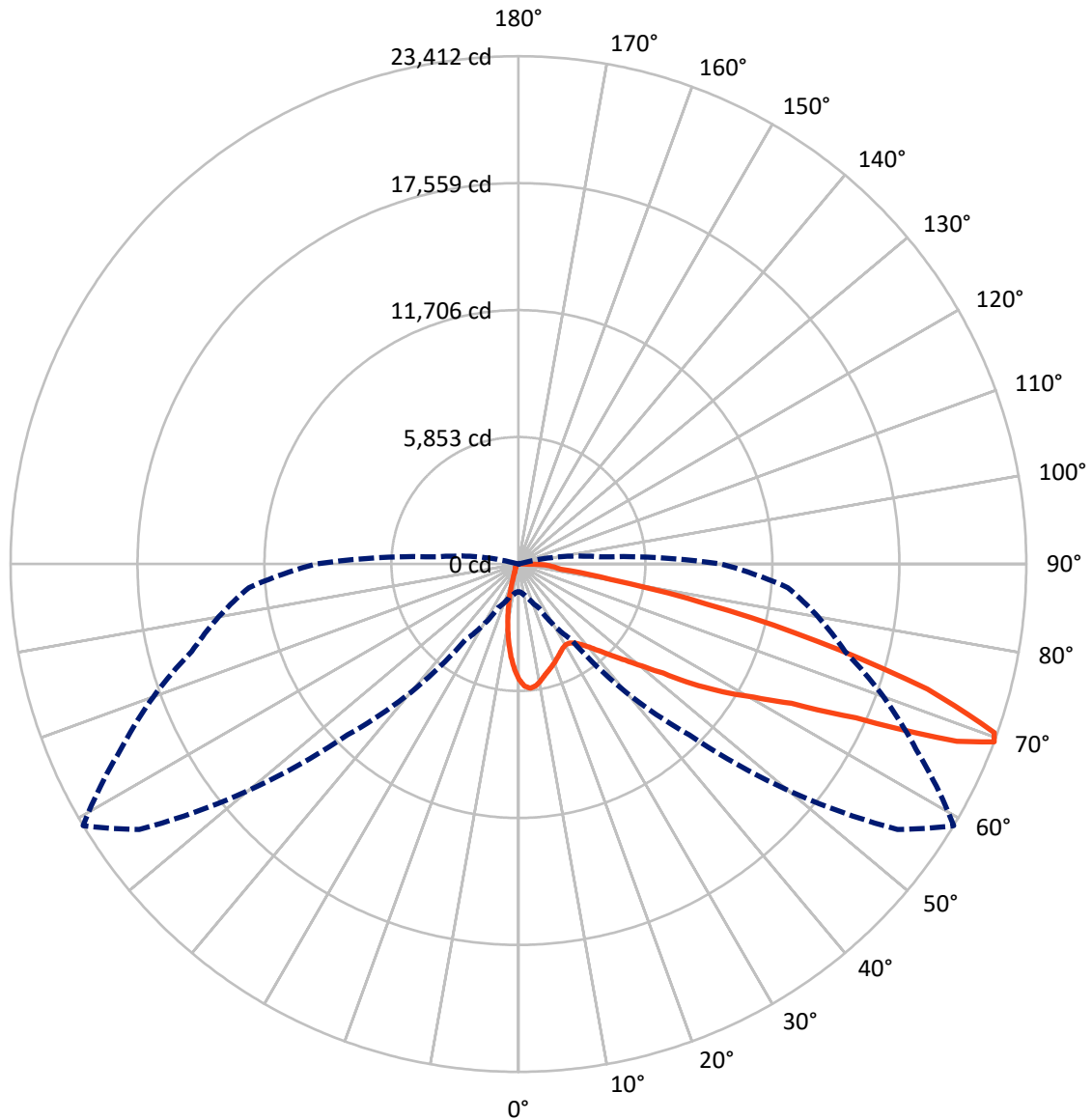


Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Short - Non-Cutoff

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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	1670.5	0.0	1670.5
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	18842.5	0.0	18842.5
	% Fixture	91.9	0.0	91.9
Total	Lumens	20513.0	0.0	20513.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.4	2.1
10°-20°	895.5	4.4
20°-30°	1205.0	5.9
30°-40°	1749.6	8.5
40°-50°	2913.2	14.2
50°-60°	4544.6	22.2
60°-70°	5623.5	27.4
70°-80°	2850.0	13.9
80°-90°	298.2	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°	20513.0	100.0
0°-180°	20513.0	100.0



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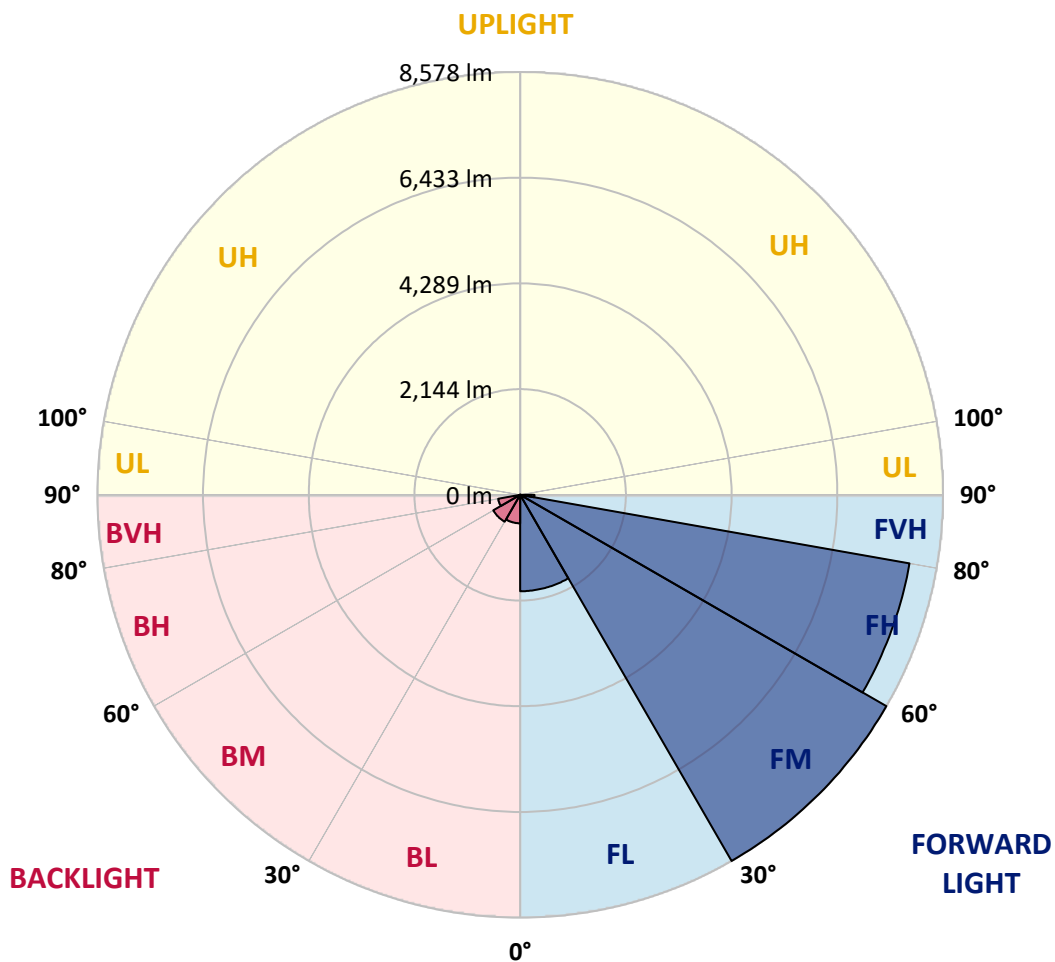
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1955.7	9.5			
FM	(30°-60°)	8577.9	41.8			
FH	(60°-80°)	8019.8	39.1			G4/12000
FVH	(80°-90°)	289.0	1.4			G3/500
BL	(0°-30°)	578.2	2.8	B2/1000		
BM	(30°-60°)	629.5	3.1	B1/1000		
BH	(60°-80°)	453.7	2.2	B1/500		G1/500
BVH	(80°-90°)	9.2	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°	5339.3	5339.3	5339.3	5339.3	5339.3	5339.3	5339.3	5339.3	5339.3	5339.3	5339.3
2.5°	5851.9	5849.6	5824.1	5812.5	5791.6	5747.6	5679.1	5643.2	5585.2	5484.2	5348.5
5°	5798.6	5826.4	5841.5	5842.7	5857.7	5841.5	5780.0	5749.9	5669.8	5507.4	5263.9
7.5°	5436.7	5447.1	5490.0	5527.2	5599.1	5667.5	5689.6	5676.8	5629.2	5455.2	5131.6
10°	5049.3	5059.7	5110.7	5159.5	5256.9	5362.4	5473.8	5497.0	5516.7	5381.0	5004.0
12.5°	4715.2	4725.6	4777.8	4841.6	4955.3	5085.2	5258.1	5296.3	5383.3	5310.3	4901.9
15°	4427.5	4432.2	4483.2	4562.1	4697.8	4864.8	5060.9	5122.3	5255.7	5260.4	4812.6
17.5°	4182.8	4194.4	4225.7	4301.1	4449.6	4656.0	4884.5	4972.7	5129.3	5218.6	4725.6
20°	4033.1	4044.7	4043.6	4085.3	4218.7	4439.1	4708.2	4813.8	5004.0	5175.7	4647.9
22.5°	4004.1	4004.1	3974.0	3968.2	4047.1	4231.5	4525.0	4653.7	4891.5	5157.1	4593.4
25°	4107.4	4102.7	4027.3	3965.9	3969.3	4079.5	4347.5	4500.6	4796.4	5169.9	4564.4
27.5°	4325.5	4319.7	4224.5	4107.4	4013.4	4012.3	4212.9	4377.7	4721.0	5230.2	4576.0
30°	4627.0	4624.7	4521.5	4374.2	4203.7	4047.1	4166.5	4316.2	4672.3	5339.3	4602.7
32.5°	4956.5	4953.0	4875.3	4719.8	4504.1	4203.7	4215.3	4340.5	4686.2	5484.2	4667.6
35°	5305.6	5299.8	5266.2	5130.5	4892.7	4492.5	4375.3	4472.8	4774.4	5701.2	4795.2
37.5°	5683.8	5689.6	5713.9	5584.0	5334.6	4897.3	4643.3	4709.4	4951.8	5995.8	5002.9
40°	6241.7	6240.5	6248.7	6078.1	5838.0	5392.6	5017.9	5038.8	5248.8	6386.7	5318.4
42.5°	7254.3	7183.6	6969.0	6621.0	6379.7	5958.7	5490.0	5468.0	5611.8	6870.4	5760.3
45°	8614.9	8464.2	7907.4	7240.4	6931.9	6596.6	6071.2	6000.4	6092.1	7451.5	6305.5
47.5°	9785.3	9628.7	8841.1	7885.3	7517.6	7202.1	6752.1	6624.5	6654.6	8102.3	6996.8
50°	10183.2	10106.6	9418.8	8446.8	8084.9	7964.2	7542.0	7386.6	7343.6	8855.1	7798.3
52.5°	10045.2	10039.4	9581.2	8811.0	8604.5	8753.0	8536.1	8356.3	8198.5	9648.5	8613.8
55°	9823.6	9852.6	9647.3	9130.0	9123.0	9473.3	9895.5	9745.9	9288.9	10510.3	9316.7
57.5°	9212.3	9336.4	9610.2	9733.1	10018.5	10376.9	11027.6	11115.8	10575.3	11170.3	9900.2
60°	7474.7	7747.3	8642.8	9820.1	11172.6	12065.8	12394.1	12469.5	11630.8	11719.0	10687.8
62.5°	5305.6	5584.0	6719.6	8711.2	11190.0	14284.8	14429.8	14134.0	12793.1	12532.1	12046.1
65°	2816.4	3030.9	3958.9	6288.1	9701.8	14799.8	17989.7	17108.1	14843.9	14131.7	13801.1
67.5°	1440.7	1505.6	1874.5	3077.3	6669.7	13145.7	21180.7	21801.3	18378.2	15718.5	13716.4
69°	1274.8	1313.1	1557.8	2224.8	4270.9	11134.4	21336.1	23412.4	20228.4	15586.2	12464.8
70°	1234.2	1267.8	1490.5	2013.7	3338.3	9337.6	20741.1	23270.9	20701.6	15082.8	11529.9
72.5°	1047.4	1076.4	1327.0	1779.4	2713.1	4635.2	16848.3	19719.2	18576.6	12564.6	8345.8
75°	700.6	795.7	1273.6	1668.0	2524.1	2633.1	11107.7	14250.0	13237.4	8474.6	4347.5
77.5°	168.2	181.0	359.6	1327.0	2308.3	2317.6	5712.8	8858.5	7225.3	3020.5	1027.7
80°	90.5	87.0	100.9	263.3	2149.4	2174.9	2571.6	4299.9	2579.7	501.1	338.7
82.5°	63.8	60.3	65.0	110.2	676.3	1981.2	1860.6	1946.4	1069.5	192.6	152.0
85°	23.2	22.0	36.0	99.8	212.3	1139.1	1911.6	1605.4	866.5	88.2	111.4
87.5°	8.1	7.0	13.9	54.5	65.0	484.9	1179.7	1213.3	341.0	53.4	52.2
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°	5339.3	5339.3	5339.3	5339.3	5339.3	5339.3	5339.3	5339.3	5339.3	5339.3	5339.3
2.5°	5291.7	5219.8	5087.5	4951.8	4826.6	4675.8	4600.4	4526.1	4494.8	4483.2	4428.7
5°	5138.6	5016.8	4736.1	4454.2	4194.4	3918.3	3736.2	3590.0	3504.2	3462.5	3396.3
7.5°	4942.5	4743.0	4317.3	3882.4	3477.5	3078.5	2782.7	2555.4	2398.8	2323.4	2254.9
10°	4752.3	4486.7	3881.2	3288.5	2738.6	2209.7	1801.4	1505.6	1316.5	1229.5	1173.9
12.5°	4581.8	4237.3	3460.1	2709.6	2019.5	1400.1	984.8	749.3	632.2	591.6	571.9
15°	4429.8	4007.6	3062.3	2159.8	1367.6	800.4	538.2	458.2	439.6	439.6	437.3
17.5°	4286.0	3782.6	2678.3	1643.6	858.4	489.5	409.5	399.0	399.0	403.7	403.7
20°	4148.0	3568.0	2307.1	1179.7	540.5	388.6	370.0	367.7	370.0	375.8	375.8
22.5°	4029.7	3373.1	1960.3	809.6	401.3	350.3	341.0	337.5	338.7	342.2	344.5
25°	3941.5	3208.4	1633.2	548.7	345.7	319.0	308.5	302.7	298.1	298.1	300.4
27.5°	3885.8	3069.2	1316.5	399.0	310.9	290.0	273.7	264.5	254.0	248.2	250.5
30°	3845.2	2937.0	1019.6	325.9	278.4	257.5	236.6	221.6	206.5	199.5	201.8
32.5°	3830.2	2830.3	762.1	287.7	249.4	226.2	200.7	181.0	164.7	158.9	160.1
35°	3870.8	2745.6	557.9	259.8	226.2	197.2	168.2	146.2	133.4	129.9	131.1
37.5°	3977.5	2700.4	417.6	236.6	205.3	172.8	140.4	119.5	111.4	111.4	112.5
40°	4179.3	2699.2	335.2	220.4	186.8	149.6	116.0	100.9	96.3	98.6	99.8
42.5°	4473.9	2760.7	292.3	205.3	170.5	127.6	96.3	85.8	84.7	87.0	88.2
45°	4876.4	2873.2	269.1	192.6	153.1	106.7	81.2	74.2	74.2	77.7	78.9
47.5°	5369.4	3037.9	249.4	179.8	135.7	89.3	69.6	65.0	66.1	69.6	70.8
50°	5963.3	3245.5	229.7	165.9	123.0	74.2	60.3	56.8	58.0	62.6	63.8
52.5°	6639.6	3525.1	213.4	153.1	106.7	61.5	51.0	48.7	51.0	55.7	56.8
55°	7219.5	3775.6	193.7	142.7	85.8	51.0	41.8	41.8	44.1	49.9	51.0
57.5°	7777.5	4037.8	176.3	123.0	67.3	40.6	34.8	36.0	39.4	45.2	46.4
60°	8596.4	4482.0	155.4	103.2	51.0	32.5	29.0	30.2	34.8	40.6	41.8
62.5°	9987.2	5158.3	134.6	85.8	39.4	25.5	23.2	25.5	31.3	38.3	39.4
65°	11242.2	5433.2	110.2	71.9	30.2	19.7	19.7	23.2	30.2	37.1	38.3
67.5°	10542.8	4573.7	85.8	56.8	23.2	15.1	16.2	22.0	29.0	37.1	38.3
69°	9323.7	3739.7	73.1	45.2	19.7	13.9	15.1	22.0	29.0	36.0	37.1
70°	8373.7	3157.4	65.0	38.3	17.4	13.9	15.1	20.9	29.0	36.0	37.1
72.5°	5608.4	1705.1	52.2	27.8	16.2	12.8	12.8	20.9	27.8	34.8	36.0
75°	2410.4	470.9	41.8	19.7	13.9	11.6	11.6	19.7	26.7	33.6	36.0
77.5°	440.8	119.5	33.6	17.4	13.9	11.6	10.4	18.6	25.5	32.5	33.6
80°	175.2	59.2	26.7	15.1	12.8	10.4	9.3	17.4	24.4	31.3	32.5
82.5°	105.6	33.6	22.0	13.9	12.8	9.3	8.1	15.1	23.2	30.2	31.3
85°	85.8	23.2	17.4	13.9	11.6	9.3	7.0	13.9	20.9	29.0	30.2
87.5°	41.8	16.2	16.2	12.8	11.6	9.3	7.0	12.8	19.7	27.8	29.0
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)