

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: P191923

Luminaire Tested: **GLEON-AF-05-LED-E1-SL3-7050-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191923
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-SL3-7050-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 800mA 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: 20534 lumens
Efficiency: N/A
Efficacy: 97.8 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): 210
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

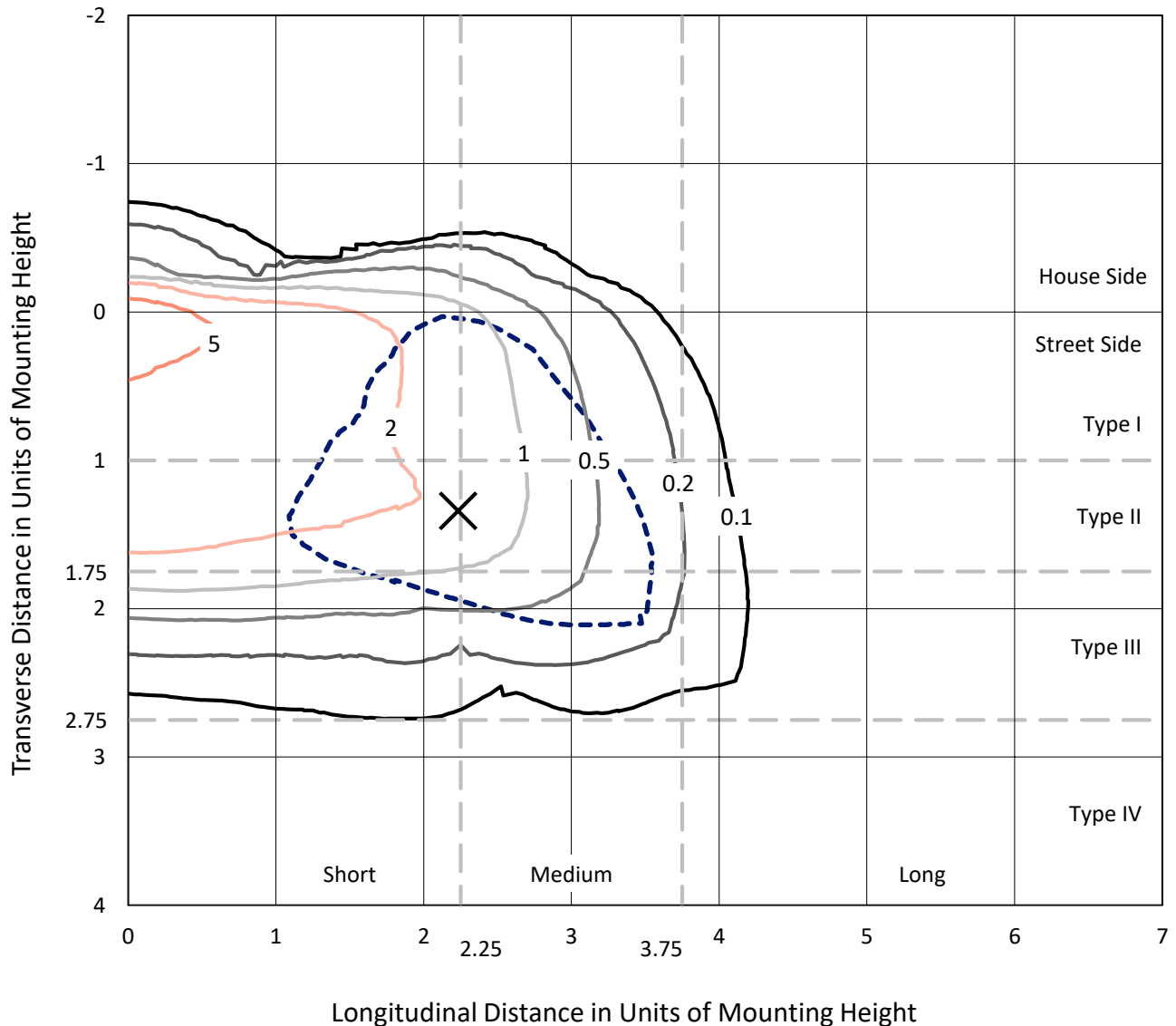


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

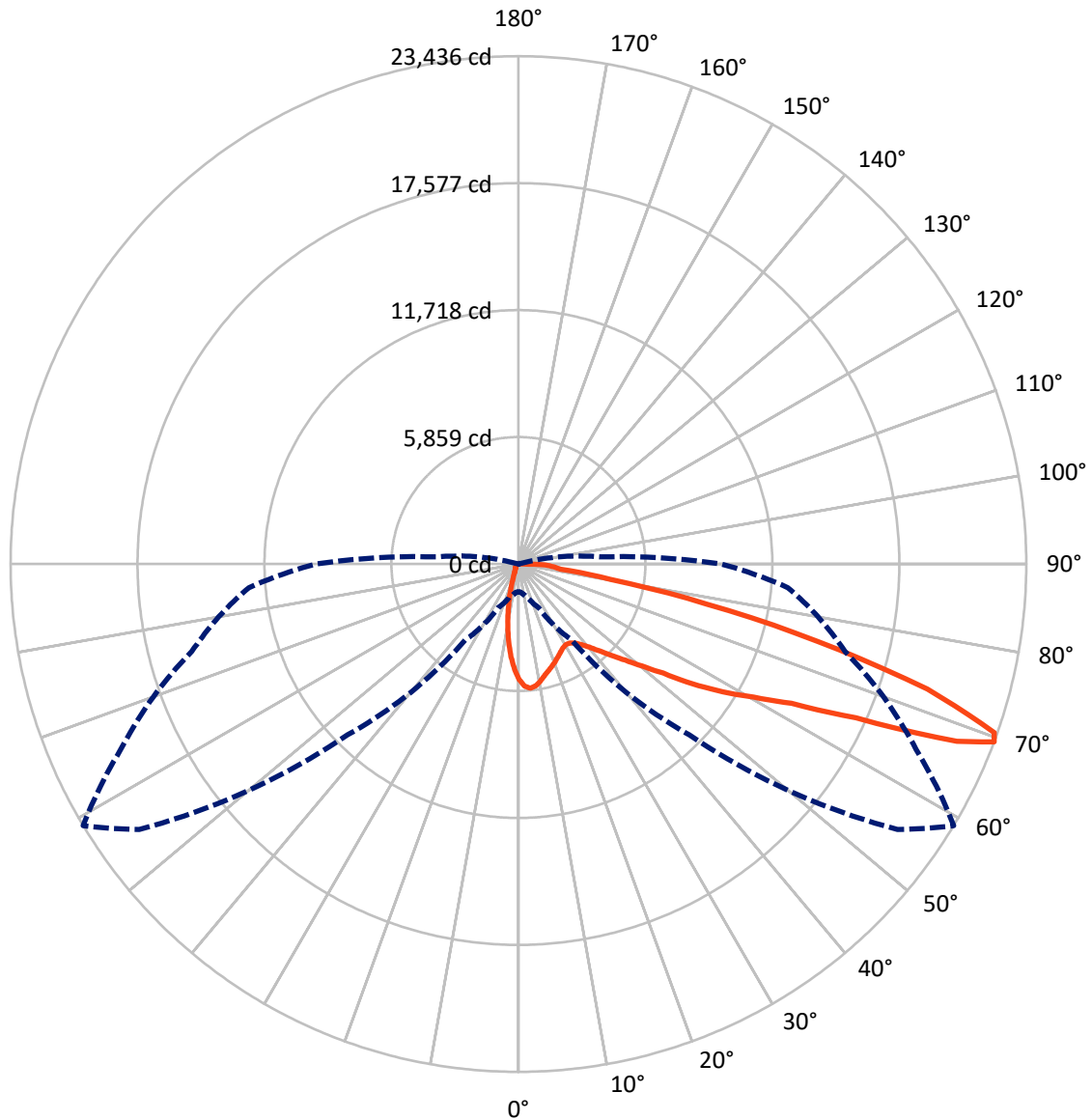


Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Short - Non-Cutoff

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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	1672.2	0.0	1672.2
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	18861.8	0.0	18861.8
	% Fixture	91.9	0.0	91.9
Total	Lumens	20534.0	0.0	20534.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.8	2.1
10°-20°	896.4	4.4
20°-30°	1206.2	5.9
30°-40°	1751.4	8.5
40°-50°	2916.2	14.2
50°-60°	4549.2	22.2
60°-70°	5629.3	27.4
70°-80°	2852.9	13.9
80°-90°	298.5	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°	20534.0	100.0
0°-180°	20534.0	100.0



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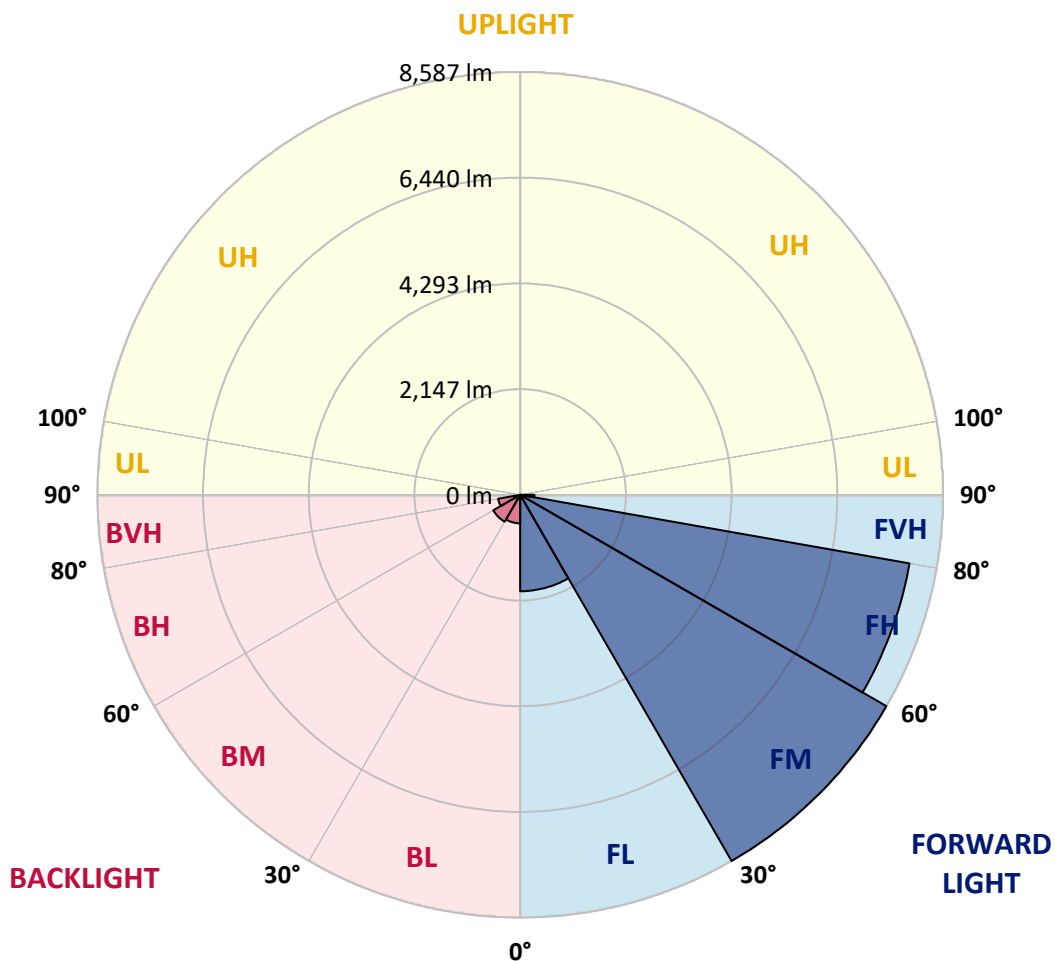
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1957.7	9.5			
FM	(30°-60°)	8586.7	41.8			
FH	(60°-80°)	8028.0	39.1			G4/12000
FVH	(80°-90°)	289.3	1.4			G3/500
BL	(0°-30°)	578.8	2.8	B2/1000		
BM	(30°-60°)	630.1	3.1	B1/1000		
BH	(60°-80°)	454.1	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°	5344.7	5344.7	5344.7	5344.7	5344.7	5344.7	5344.7	5344.7	5344.7	5344.7	5344.7
2.5°	5857.9	5855.6	5830.1	5818.5	5797.6	5753.4	5684.9	5648.9	5590.9	5489.9	5354.0
5°	5804.5	5832.4	5847.5	5848.7	5863.7	5847.5	5785.9	5755.8	5675.6	5513.1	5269.2
7.5°	5442.3	5452.7	5495.7	5532.8	5604.8	5673.3	5695.4	5682.6	5635.0	5460.8	5136.9
10°	5054.4	5064.9	5116.0	5164.7	5262.3	5367.9	5479.4	5502.6	5522.4	5386.5	5009.1
12.5°	4720.0	4730.5	4782.7	4846.6	4960.4	5090.4	5263.4	5301.8	5388.8	5315.7	4907.0
15°	4432.1	4436.7	4487.8	4566.8	4702.6	4869.8	5066.0	5127.6	5261.1	5265.8	4817.6
17.5°	4187.1	4198.7	4230.0	4305.5	4454.1	4660.8	4889.6	4977.8	5134.6	5224.0	4730.5
20°	4037.3	4048.9	4047.7	4089.5	4223.1	4443.7	4713.1	4818.7	5009.1	5181.0	4652.7
22.5°	4008.2	4008.2	3978.1	3972.3	4051.2	4235.8	4529.6	4658.5	4896.5	5162.4	4598.1
25°	4111.6	4106.9	4031.5	3969.9	3973.4	4083.7	4351.9	4505.2	4801.3	5175.2	4569.1
27.5°	4329.9	4324.1	4228.9	4111.6	4017.5	4016.4	4217.3	4382.1	4725.8	5235.6	4580.7
30°	4631.8	4629.5	4526.1	4378.6	4208.0	4051.2	4170.8	4320.6	4677.1	5344.7	4607.4
32.5°	4961.5	4958.1	4880.3	4724.7	4508.7	4208.0	4219.6	4345.0	4691.0	5489.9	4672.4
35°	5311.0	5305.2	5271.6	5135.7	4897.7	4497.1	4379.8	4477.3	4779.2	5707.0	4800.1
37.5°	5689.6	5695.4	5719.8	5589.7	5340.1	4902.3	4648.0	4714.2	4956.9	6001.9	5008.0
40°	6248.1	6246.9	6255.0	6084.4	5844.0	5398.1	5023.1	5044.0	5254.1	6393.2	5323.8
42.5°	7261.8	7190.9	6976.1	6627.8	6386.3	5964.8	5495.7	5473.6	5617.6	6877.4	5766.2
45°	8623.8	8472.8	7915.5	7247.8	6939.0	6603.4	6077.4	6006.6	6098.3	7459.1	6311.9
47.5°	9795.4	9638.6	8850.2	7893.4	7525.3	7209.5	6759.0	6631.3	6661.4	8110.5	7004.0
50°	10193.6	10117.0	9428.4	8455.4	8093.1	7972.4	7549.7	7394.1	7351.2	8864.1	7806.3
52.5°	10055.5	10049.6	9591.0	8820.0	8613.3	8761.9	8544.8	8364.8	8206.9	9658.3	8622.6
55°	9833.7	9862.7	9657.2	9139.3	9132.3	9483.0	9905.7	9755.9	9298.4	10521.1	9326.3
57.5°	9221.8	9346.0	9620.0	9743.1	10028.7	10387.5	11038.9	11127.2	10586.1	11181.8	9910.3
60°	7482.4	7755.2	8651.6	9830.2	11184.1	12078.2	12406.8	12482.2	11642.7	11731.0	10698.7
62.5°	5311.0	5589.7	6726.5	8720.1	11201.5	14299.4	14444.6	14148.5	12806.2	12544.9	12058.4
65°	2819.2	3034.1	3963.0	6294.5	9711.8	14815.0	18008.1	17125.6	14859.1	14146.1	13815.2
67.5°	1442.1	1507.2	1876.4	3080.5	6676.5	13159.2	21202.4	21823.6	18397.1	15734.6	13730.5
69°	1276.1	1314.4	1559.4	2227.1	4275.3	11145.8	21358.0	23436.4	20249.1	15602.2	12477.6
70°	1235.5	1269.1	1492.1	2015.7	3341.8	9347.2	20762.3	23294.7	20722.8	15098.3	11541.7
72.5°	1048.5	1077.5	1328.3	1781.2	2715.9	4639.9	16865.5	19739.3	18595.6	12577.4	8354.4
75°	701.3	796.5	1274.9	1669.7	2526.6	2635.8	11119.1	14264.6	13250.9	8483.3	4351.9
77.5°	168.4	181.1	360.0	1328.3	2310.7	2320.0	5718.6	8867.6	7232.7	3023.6	1028.8
80°	90.6	87.1	101.0	263.6	2151.6	2177.1	2574.2	4304.3	2582.4	501.6	339.1
82.5°	63.9	60.4	65.0	110.3	676.9	1983.2	1862.5	1948.4	1070.6	192.7	152.1
85°	23.2	22.1	36.0	99.9	212.5	1140.2	1913.6	1607.0	867.4	88.2	111.5
87.5°	8.1	7.0	13.9	54.6	65.0	485.4	1180.9	1214.5	341.4	53.4	52.3
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°	5344.7	5344.7	5344.7	5344.7	5344.7	5344.7	5344.7	5344.7	5344.7	5344.7	5344.7
2.5°	5297.1	5225.1	5092.7	4956.9	4831.5	4680.5	4605.1	4530.8	4499.4	4487.8	4433.2
5°	5143.8	5021.9	4740.9	4458.8	4198.7	3922.3	3740.0	3593.7	3507.8	3466.0	3399.8
7.5°	4947.6	4747.9	4321.8	3886.3	3481.1	3081.7	2785.6	2558.0	2401.2	2325.8	2257.3
10°	4757.2	4491.3	3885.2	3291.8	2741.4	2212.0	1803.2	1507.2	1317.9	1230.8	1175.1
12.5°	4586.5	4241.6	3463.7	2712.4	2021.5	1401.5	985.8	750.1	632.8	592.2	572.4
15°	4434.4	4011.7	3065.4	2162.0	1369.0	801.2	538.8	458.6	440.1	440.1	437.7
17.5°	4290.4	3786.5	2681.1	1645.3	859.2	490.0	409.9	399.4	399.4	404.1	404.1
20°	4152.2	3571.7	2309.5	1180.9	541.1	389.0	370.4	368.1	370.4	376.2	376.2
22.5°	4033.8	3376.6	1962.3	810.5	401.8	350.7	341.4	337.9	339.1	342.5	344.9
25°	3945.5	3211.7	1634.9	549.2	346.0	319.3	308.9	303.1	298.4	298.4	300.7
27.5°	3889.8	3072.4	1317.9	399.4	311.2	290.3	274.0	264.7	254.3	248.5	250.8
30°	3849.2	2940.0	1020.6	326.3	278.7	257.8	236.9	221.8	206.7	199.7	202.0
32.5°	3834.1	2833.2	762.9	288.0	249.6	226.4	200.9	181.1	164.9	159.1	160.2
35°	3874.7	2748.4	558.5	260.1	226.4	197.4	168.4	146.3	133.5	130.0	131.2
37.5°	3981.5	2703.1	418.0	236.9	205.5	173.0	140.5	119.6	111.5	111.5	112.6
40°	4183.6	2702.0	335.6	220.6	186.9	149.8	116.1	101.0	96.4	98.7	99.9
42.5°	4478.5	2763.5	292.6	205.5	170.7	127.7	96.4	85.9	84.8	87.1	88.2
45°	4881.4	2876.1	269.4	192.7	153.3	106.8	81.3	74.3	74.3	77.8	79.0
47.5°	5374.9	3041.0	249.6	180.0	135.9	89.4	69.7	65.0	66.2	69.7	70.8
50°	5969.4	3248.9	229.9	166.0	123.1	74.3	60.4	56.9	58.1	62.7	63.9
52.5°	6646.4	3528.7	213.6	153.3	106.8	61.5	51.1	48.8	51.1	55.7	56.9
55°	7226.9	3779.5	193.9	142.8	85.9	51.1	41.8	41.8	44.1	49.9	51.1
57.5°	7785.4	4041.9	176.5	123.1	67.3	40.6	34.8	36.0	39.5	45.3	46.4
60°	8605.2	4486.6	155.6	103.3	51.1	32.5	29.0	30.2	34.8	40.6	41.8
62.5°	9997.4	5163.6	134.7	85.9	39.5	25.5	23.2	25.5	31.4	38.3	39.5
65°	11253.7	5438.8	110.3	72.0	30.2	19.7	19.7	23.2	30.2	37.2	38.3
67.5°	10553.6	4578.4	85.9	56.9	23.2	15.1	16.3	22.1	29.0	37.2	38.3
69°	9333.2	3743.5	73.2	45.3	19.7	13.9	15.1	22.1	29.0	36.0	37.2
70°	8382.3	3160.6	65.0	38.3	17.4	13.9	15.1	20.9	29.0	36.0	37.2
72.5°	5614.1	1706.9	52.3	27.9	16.3	12.8	12.8	20.9	27.9	34.8	36.0
75°	2412.8	471.4	41.8	19.7	13.9	11.6	11.6	19.7	26.7	33.7	36.0
77.5°	441.2	119.6	33.7	17.4	13.9	11.6	10.5	18.6	25.5	32.5	33.7
80°	175.3	59.2	26.7	15.1	12.8	10.5	9.3	17.4	24.4	31.4	32.5
82.5°	105.7	33.7	22.1	13.9	12.8	9.3	8.1	15.1	23.2	30.2	31.4
85°	85.9	23.2	17.4	13.9	11.6	9.3	7.0	13.9	20.9	29.0	30.2
87.5°	41.8	16.3	16.3	12.8	11.6	9.3	7.0	12.8	19.7	27.9	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)