

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: P453475

Luminaire Tested: **GALN-SA4C-730-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 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: 20952 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

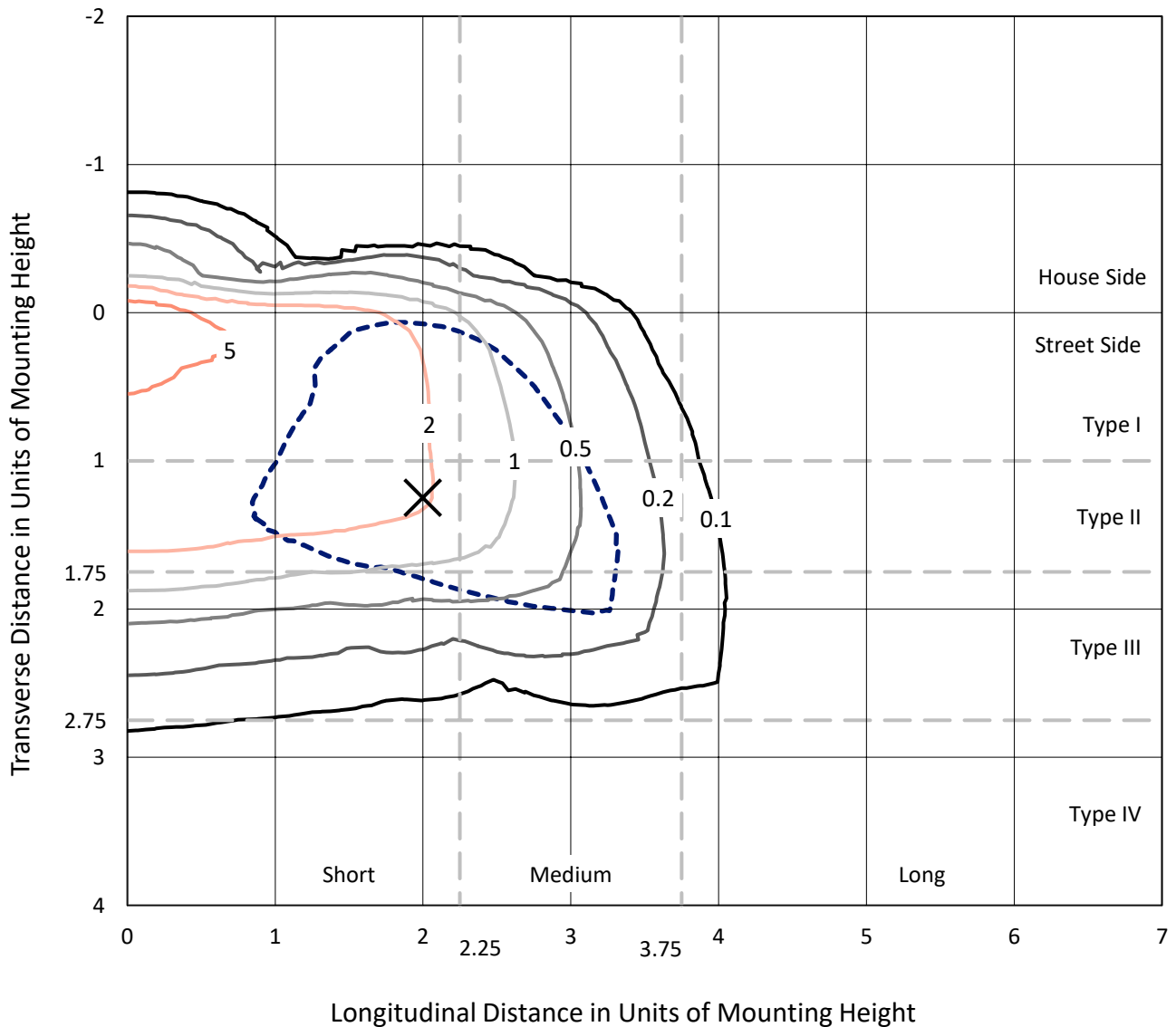
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

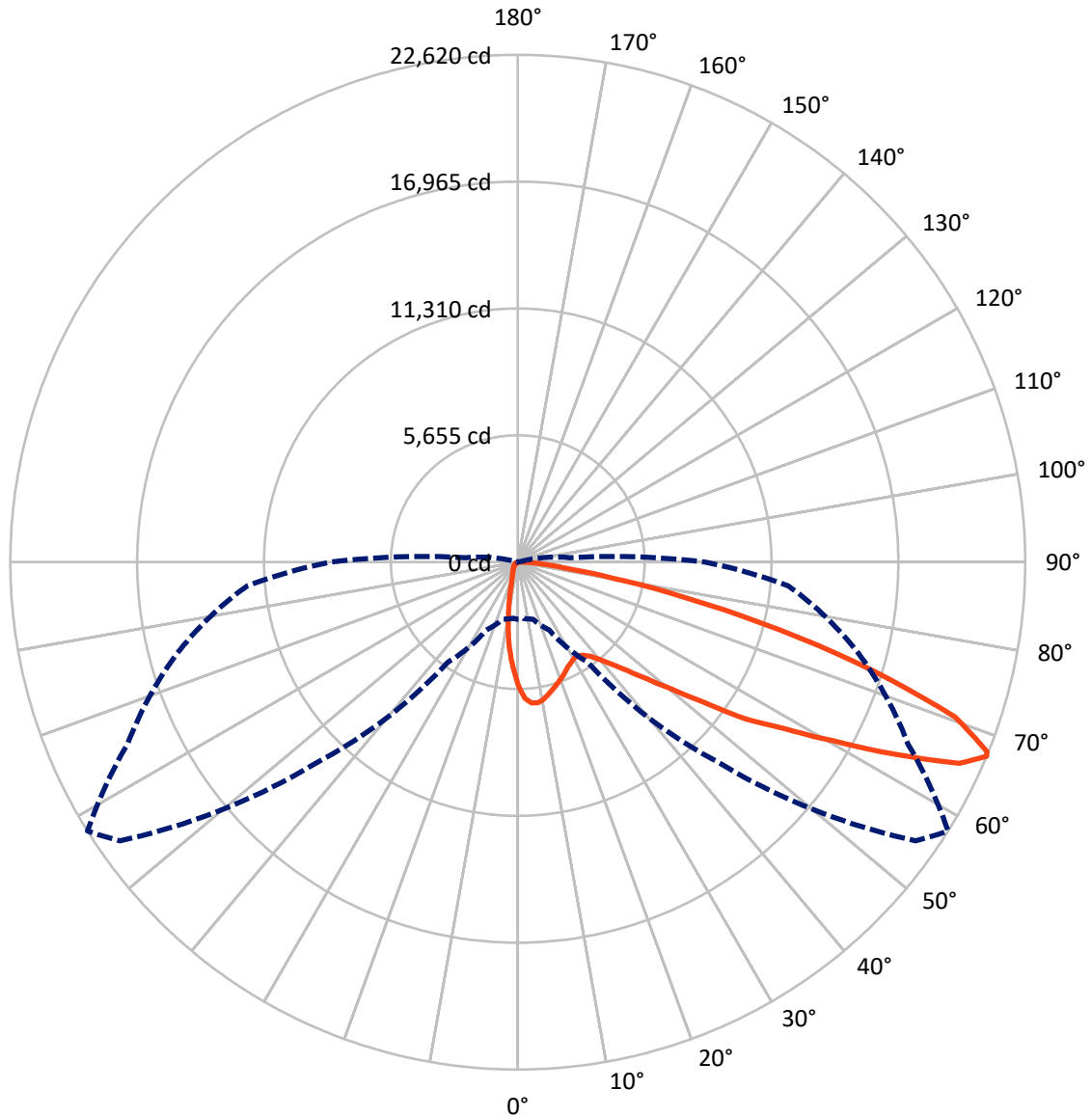
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1512.0	0.0	1512.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	19440.0	0.0	19440.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	20952.0	0.0	20952.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.7	2.2
10°-20°	973.4	4.6
20°-30°	1319.1	6.3
30°-40°	1829.4	8.7
40°-50°	2917.8	13.9
50°-60°	5043.6	24.1
60°-70°	5761.4	27.5
70°-80°	2402.0	11.5
80°-90°	254.7	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°	20952.0	100.0
0°-180°	20952.0	100.0

Coefficient of Utilization



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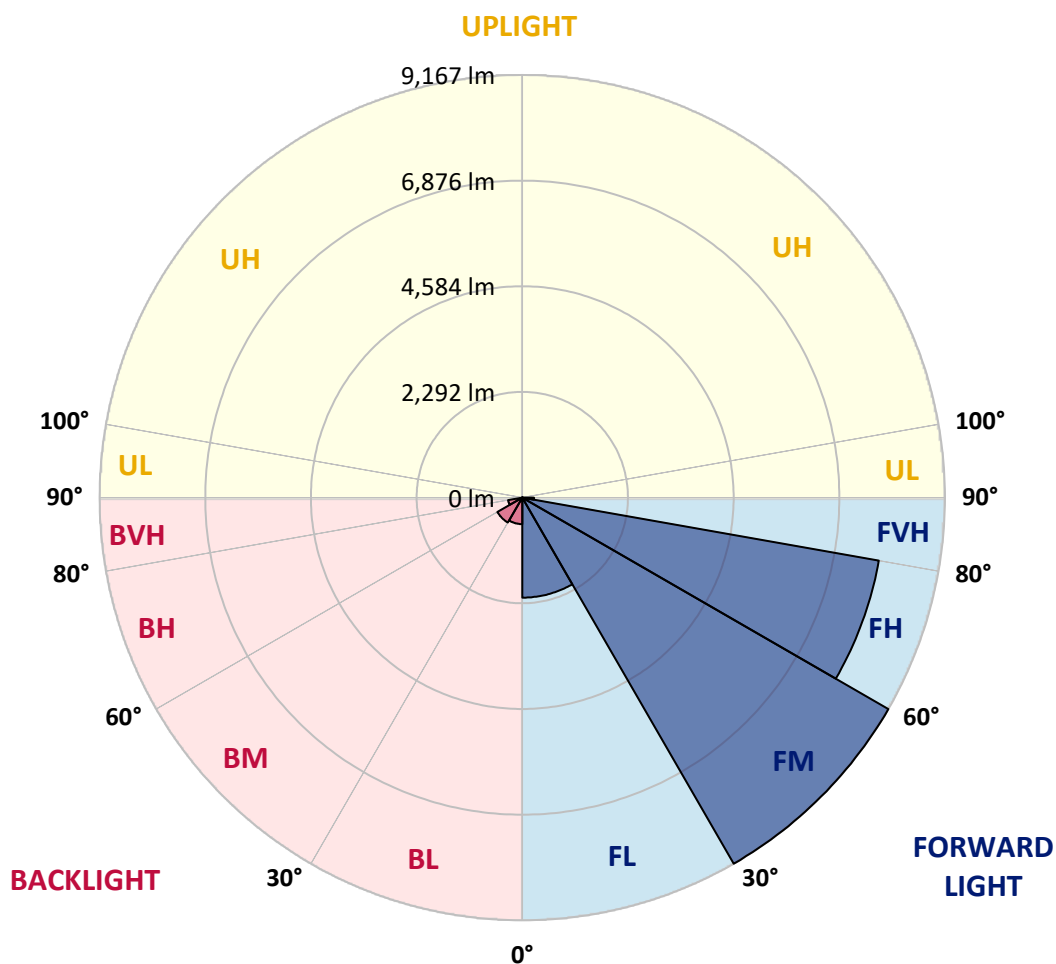
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2169.0	10.4			
FM	(30°-60°)	9167.4	43.8			
FH	(60°-80°)	7850.7	37.5			G4/12000
FVH	(80°-90°)	252.8	1.2			G3/500
BL	(0°-30°)	574.1	2.7	B2/1000		
BM	(30°-60°)	623.4	3.0	B1/1000		
BH	(60°-80°)	312.6	1.5	B1/500		G1/500
BVH	(80°-90°)	1.8	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°	58°	65°	75°	85°
0°	5554.2	5554.2	5554.2	5554.2	5554.2	5554.2	5554.2	5554.2	5554.2	5554.2	5554.2
2.5°	6446.0	6455.8	6419.4	6390.0	6314.4	6233.2	6125.4	6068.0	5970.0	5800.6	5613.0
5°	6597.3	6609.9	6604.3	6597.3	6567.9	6489.4	6352.2	6301.8	6157.6	5881.8	5543.0
7.5°	6261.2	6307.4	6313.0	6367.6	6419.4	6426.4	6374.6	6336.8	6203.8	5880.4	5418.4
10°	5816.0	5846.8	5891.6	5954.6	6079.2	6182.8	6233.2	6227.6	6150.6	5837.0	5272.8
12.5°	5366.6	5383.4	5452.0	5559.8	5712.4	5888.8	6023.2	6049.8	6051.2	5785.2	5151.0
15°	4980.1	4973.1	5026.3	5151.0	5365.2	5586.4	5827.2	5869.2	5936.4	5734.8	5037.5
17.5°	4649.7	4686.1	4694.5	4831.7	5029.1	5316.2	5622.8	5697.0	5831.4	5691.4	4943.7
20°	4445.3	4464.9	4483.1	4560.1	4737.9	5040.3	5431.0	5533.2	5733.4	5652.2	4838.7
22.5°	4385.1	4397.7	4382.3	4406.1	4532.1	4800.9	5222.4	5358.2	5639.6	5615.8	4753.3
25°	4431.3	4443.9	4407.5	4379.5	4422.9	4606.3	5020.7	5186.0	5564.0	5608.8	4688.9
27.5°	4543.3	4567.1	4516.7	4466.3	4441.1	4501.3	4862.5	5054.3	5512.2	5642.4	4659.5
30°	4718.3	4732.3	4694.5	4632.9	4575.5	4515.3	4779.9	4963.3	5498.2	5720.8	4656.7
32.5°	4908.7	4938.1	4917.1	4876.5	4802.3	4659.5	4803.7	4966.1	5531.8	5834.2	4691.7
35°	5144.0	5177.6	5197.2	5188.8	5093.6	4915.7	4954.9	5092.2	5621.4	6042.8	4786.9
37.5°	5375.0	5404.4	5515.0	5552.8	5468.8	5300.8	5249.0	5340.0	5818.8	6315.8	4959.1
40°	5639.6	5678.8	5834.2	5978.4	5937.8	5761.4	5666.2	5741.8	6121.2	6727.5	5285.4
42.5°	5893.0	5963.0	6199.6	6454.4	6492.2	6294.8	6231.8	6257.0	6569.3	7319.7	5740.4
45°	6252.8	6318.6	6623.9	6969.7	7147.5	6993.5	6929.1	6924.9	7183.9	8152.8	6478.2
47.5°	6772.3	6831.1	7190.9	7532.5	7848.9	7869.9	7748.1	7790.1	7956.7	9127.2	7382.7
50°	7409.3	7547.9	7784.5	8140.2	8563.0	8904.6	8942.4	8886.4	9029.2	10255.7	8469.2
52.5°	8334.8	8388.0	8605.0	8897.6	9393.2	9972.9	10422.3	10345.3	10300.5	11331.0	9566.9
55°	9025.0	9096.4	9433.9	9835.7	10562.3	11326.8	12301.2	12327.8	11762.2	12364.3	10640.7
57.5°	8816.4	8925.6	9436.7	10244.5	11842.0	13239.3	13964.6	13982.8	13114.7	13368.1	11853.2
60°	7745.3	7797.1	8529.4	9607.5	11951.2	15311.5	16323.7	16176.7	14491.0	14491.0	12924.3
62.5°	5492.6	5573.8	6167.4	7753.7	10793.3	16031.1	19149.1	18845.3	16386.7	15564.9	13562.7
65°	3510.0	3431.6	3825.1	4894.7	8040.8	14968.4	21609.1	21627.3	18170.5	15994.7	13214.1
67°	2542.6	2511.8	2625.2	3346.2	5452.0	12582.7	21660.9	22620.0	19195.3	15723.1	12099.6
67.5°	2325.6	2349.4	2432.0	3018.6	4953.5	11450.0	21425.7	22561.2	19426.3	15559.3	11696.4
70°	1762.7	1722.1	1811.7	2135.1	2969.6	7223.1	18430.9	20692.0	19139.3	13933.8	9345.6
72.5°	1296.5	1292.3	1416.9	1745.9	2286.4	3847.5	13835.8	16591.1	15636.3	10609.9	5884.6
75°	875.1	914.3	1113.1	1458.9	2072.1	2495.0	9432.5	12036.6	10854.9	6024.6	2405.4
77.5°	498.4	501.2	716.8	1171.9	1860.7	2007.7	5589.2	7668.3	5746.0	2003.5	714.0
80°	215.6	236.6	355.6	851.3	1542.9	1778.1	3204.8	4214.3	2324.2	424.2	231.0
82.5°	79.8	93.8	156.8	523.6	1125.7	1464.5	1936.3	2011.9	788.3	149.8	144.2
85°	0.0	2.8	57.4	245.0	586.6	653.8	1293.7	1192.9	348.6	71.4	93.8
87.5°	0.0	0.0	0.0	25.2	77.0	243.6	401.8	448.0	84.0	25.2	22.4
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°	5554.2	5554.2	5554.2	5554.2	5554.2	5554.2	5554.2	5554.2	5554.2	5554.2	5554.2
2.5°	5512.2	5421.2	5193.0	4964.7	4795.3	4653.9	4441.1	4324.9	4263.3	4172.3	4177.9
5°	5373.6	5188.8	4786.9	4371.1	4035.1	3707.5	3315.4	3157.2	3024.2	2948.6	2898.2
7.5°	5167.8	4894.7	4299.7	3745.3	3228.6	2656.0	2226.2	1939.1	1745.9	1674.5	1605.9
10°	4942.3	4579.7	3805.5	3036.8	2320.0	1729.1	1365.1	1101.9	1008.1	921.3	929.7
12.5°	4733.7	4292.7	3351.8	2397.0	1625.5	1099.1	856.9	749.1	718.2	708.4	708.4
15°	4562.9	4018.3	2864.6	1801.9	1114.5	789.7	686.0	656.6	645.4	642.6	642.6
17.5°	4380.9	3757.9	2425.0	1331.5	810.7	660.8	625.8	606.2	602.0	599.2	599.2
20°	4218.5	3496.0	2007.7	991.3	655.2	595.0	572.6	560.0	555.8	553.0	554.4
22.5°	4064.5	3263.6	1615.7	749.1	576.8	541.8	519.4	506.8	498.4	491.4	492.8
25°	3927.3	3039.6	1299.3	613.2	519.4	488.6	466.2	448.0	429.8	421.4	420.0
27.5°	3830.7	2843.6	1012.3	525.0	467.6	434.0	406.0	383.6	359.8	347.2	344.4
30°	3750.9	2644.8	800.9	463.4	415.8	383.6	348.6	316.4	291.2	278.6	273.0
32.5°	3699.1	2455.8	631.4	413.0	372.4	333.2	294.0	261.8	233.8	221.2	218.4
35°	3690.7	2297.6	516.6	371.0	333.2	291.2	250.6	215.6	191.8	179.2	176.4
37.5°	3750.9	2175.7	432.6	337.4	301.0	254.8	210.0	177.8	156.8	147.0	145.6
40°	3911.9	2098.7	375.2	309.4	271.6	221.2	179.2	151.2	130.2	120.4	120.4
42.5°	4218.5	2101.5	337.4	282.8	242.2	189.0	152.6	126.0	107.8	99.4	96.6
45°	4697.3	2196.8	305.2	256.2	214.2	163.8	130.2	103.6	85.4	78.4	78.4
47.5°	5338.6	2385.8	277.2	229.6	189.0	140.0	110.6	84.0	68.6	61.6	61.6
50°	6177.2	2689.6	253.4	207.2	168.0	120.4	89.6	68.6	53.2	47.6	46.2
52.5°	7053.7	3064.8	225.4	187.6	144.2	102.2	72.8	53.2	40.6	36.4	35.0
55°	8021.2	3431.6	198.8	168.0	117.6	85.4	57.4	42.0	29.4	25.2	25.2
57.5°	8997.0	3791.5	166.6	140.0	92.4	63.0	44.8	30.8	19.6	15.4	15.4
60°	9823.1	3907.7	141.4	113.4	70.0	44.8	32.2	19.6	11.2	7.0	7.0
62.5°	9936.5	3515.6	119.0	86.8	50.4	30.8	16.8	11.2	4.2	2.8	2.8
65°	9320.4	2856.2	99.4	65.8	33.6	15.4	7.0	4.2	1.4	0.0	0.0
67°	8351.6	2315.8	81.2	49.0	23.8	9.8	4.2	1.4	0.0	0.0	0.0
67.5°	8103.8	2208.0	78.4	46.2	21.0	8.4	2.8	1.4	0.0	0.0	0.0
70°	6359.2	1653.5	56.0	28.0	12.6	5.6	0.0	0.0	0.0	0.0	0.0
72.5°	3952.5	935.3	40.6	16.8	8.4	2.8	0.0	0.0	0.0	0.0	0.0
75°	1493.9	327.6	28.0	11.2	5.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	464.8	124.6	16.8	8.4	2.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	156.8	47.6	11.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	96.6	19.6	7.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	60.2	8.4	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.2	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)