

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: P456839

Luminaire Tested: **GALN-SA8A-827-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456839
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-SA8A-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA 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: 22456 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

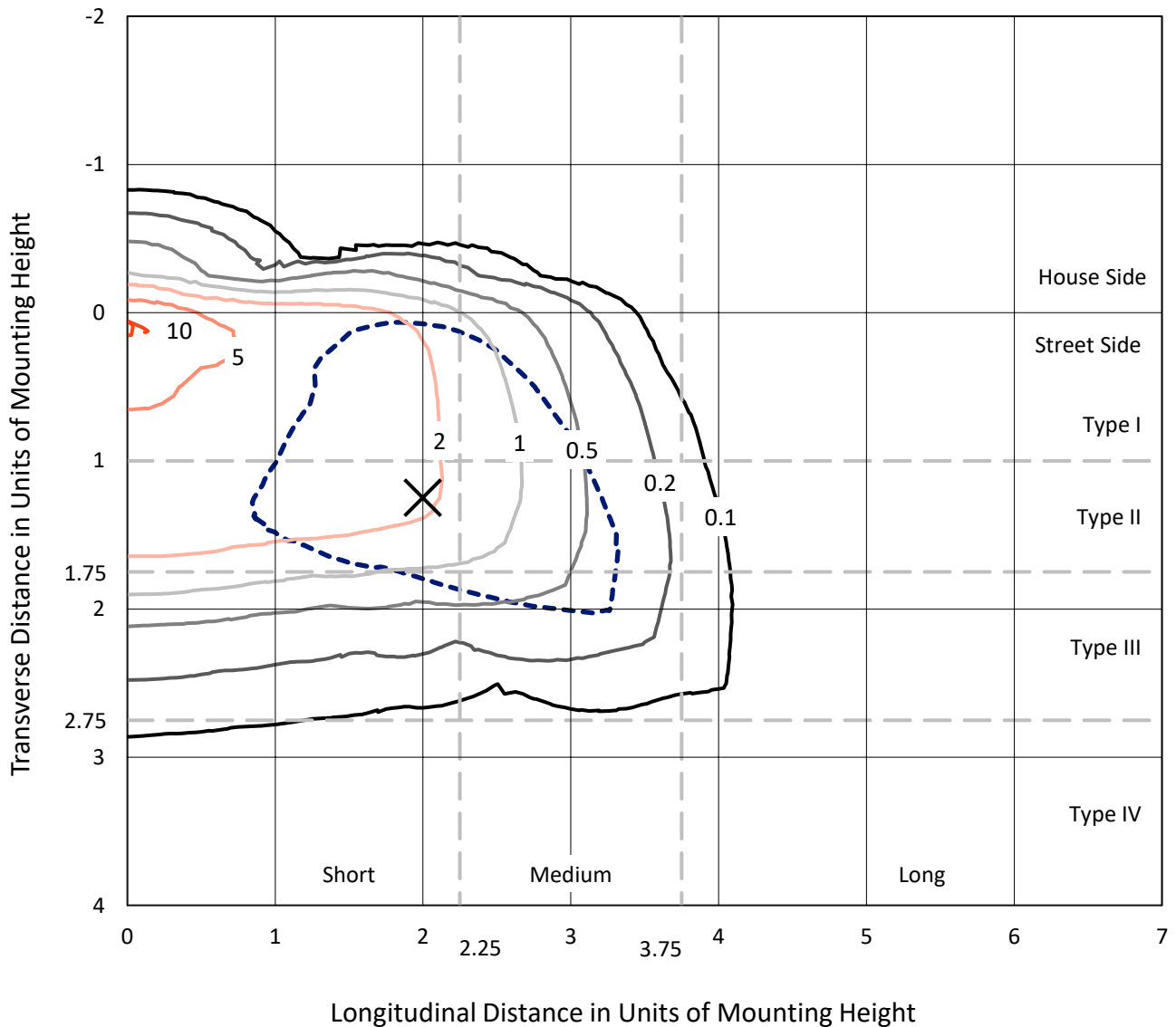
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

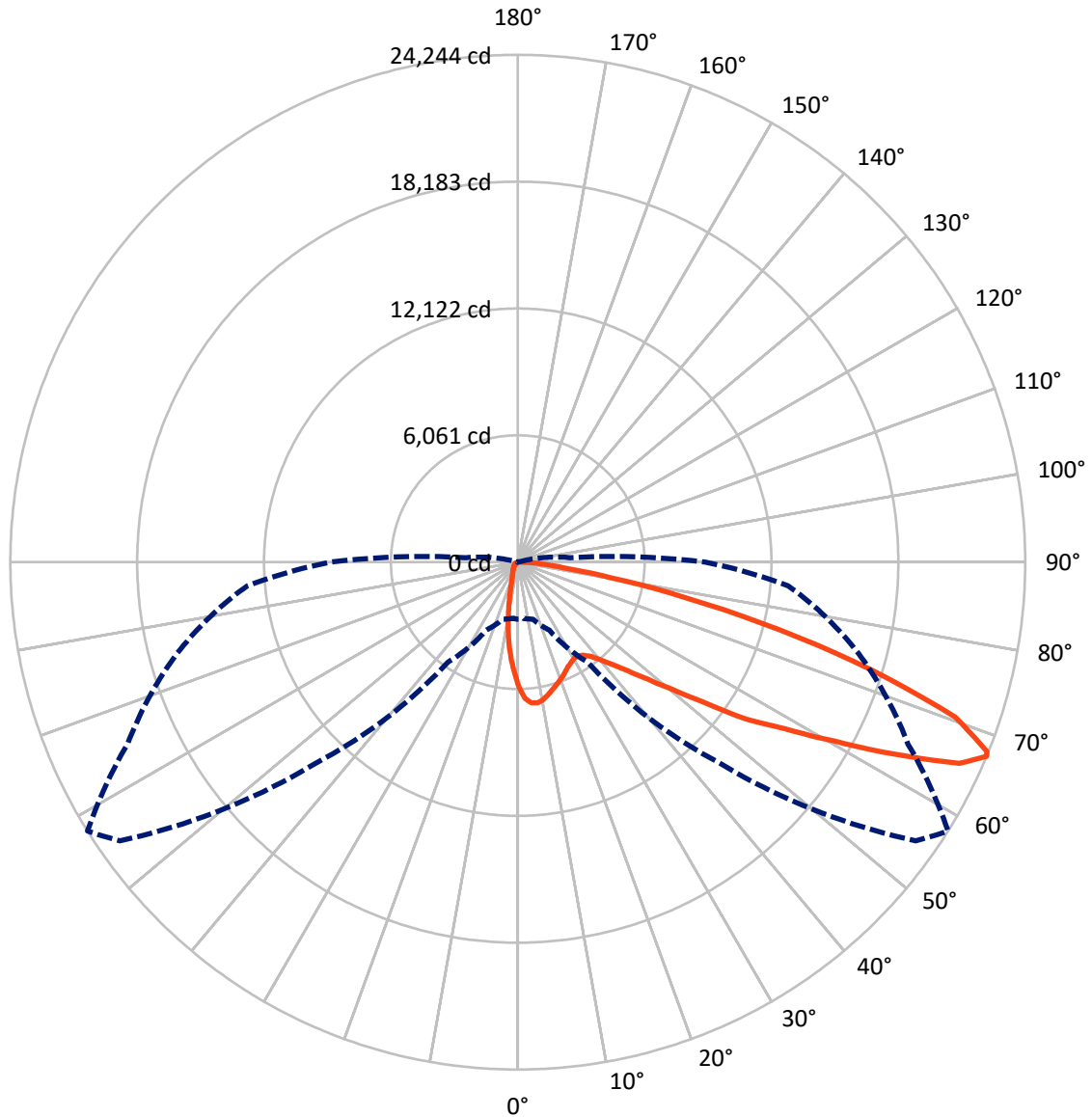
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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	1620.5	0.0	1620.5
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	20835.5	0.0	20835.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	22456.0	0.0	22456.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.1	2.2
10°-20°	1043.3	4.6
20°-30°	1413.7	6.3
30°-40°	1960.8	8.7
40°-50°	3127.2	13.9
50°-60°	5405.6	24.1
60°-70°	6174.9	27.5
70°-80°	2574.4	11.5
80°-90°	273.0	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°	22456.0	100.0
0°-180°	22456.0	100.0



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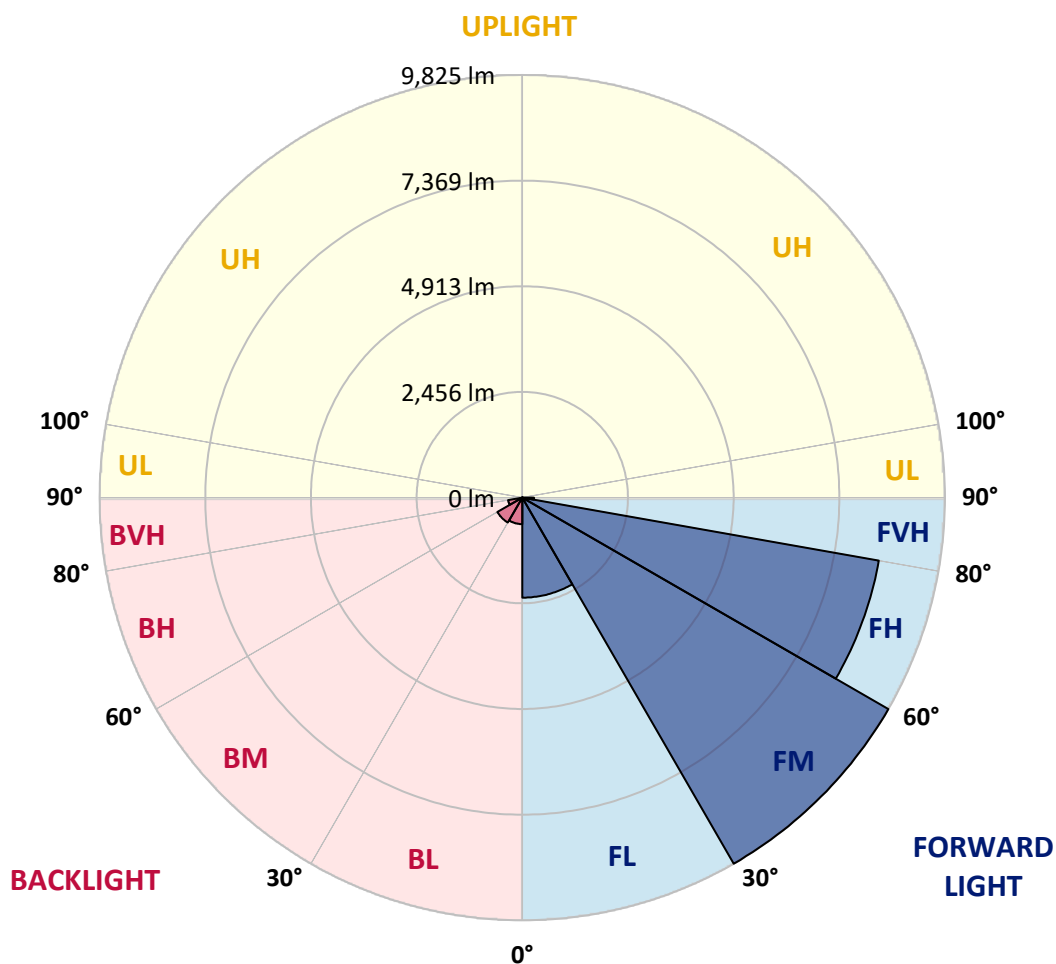
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2324.7	10.4			
FM	(30°-60°)	9825.4	43.8			
FH	(60°-80°)	8414.3	37.5			G4/12000
FVH	(80°-90°)	271.0	1.2			G3/500
BL	(0°-30°)	615.4	2.7	B2/1000		
BM	(30°-60°)	668.2	3.0	B1/1000		
BH	(60°-80°)	335.0	1.5	B1/500		G1/500
BVH	(80°-90°)	2.0	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°	5952.9	5952.9	5952.9	5952.9	5952.9	5952.9	5952.9	5952.9	5952.9	5952.9	5952.9
2.5°	6908.8	6919.3	6880.3	6848.7	6767.7	6680.7	6565.1	6503.6	6398.6	6217.0	6015.9
5°	7070.8	7084.3	7078.3	7070.8	7039.3	6955.3	6808.2	6754.2	6599.6	6304.0	5940.9
7.5°	6710.7	6760.2	6766.2	6824.7	6880.3	6887.8	6832.2	6791.7	6649.2	6302.5	5807.3
10°	6233.5	6266.5	6314.5	6382.1	6515.6	6626.6	6680.7	6674.7	6592.1	6256.0	5651.3
12.5°	5751.8	5769.8	5843.3	5958.9	6122.4	6311.5	6455.6	6484.1	6485.6	6200.5	5520.7
15°	5337.6	5330.1	5387.2	5520.7	5750.3	5987.4	6245.5	6290.5	6362.5	6146.5	5399.2
17.5°	4983.5	5022.5	5031.5	5178.6	5390.2	5697.8	6026.4	6105.9	6250.0	6099.9	5298.6
20°	4764.4	4785.4	4804.9	4887.5	5078.0	5402.2	5820.8	5930.4	6145.0	6057.9	5186.1
22.5°	4699.9	4713.4	4696.9	4722.4	4857.4	5145.6	5597.2	5742.8	6044.4	6018.9	5094.5
25°	4749.4	4762.9	4723.9	4693.9	4740.4	4937.0	5381.2	5558.2	5963.4	6011.4	5025.5
27.5°	4869.4	4895.0	4840.9	4786.9	4759.9	4824.4	5211.6	5417.2	5907.9	6047.4	4994.0
30°	5057.0	5072.0	5031.5	4965.5	4904.0	4839.4	5123.0	5319.6	5892.9	6131.5	4991.0
32.5°	5261.1	5292.6	5270.1	5226.6	5147.1	4994.0	5148.6	5322.6	5928.9	6253.0	5028.5
35°	5513.2	5549.2	5570.2	5561.2	5459.2	5268.6	5310.6	5457.7	6024.9	6476.6	5130.6
37.5°	5760.8	5792.3	5910.9	5951.4	5861.3	5681.3	5625.7	5723.3	6236.5	6769.2	5315.1
40°	6044.4	6086.4	6253.0	6407.6	6364.0	6175.0	6072.9	6154.0	6560.6	7210.4	5664.8
42.5°	6316.0	6391.1	6644.7	6917.8	6958.3	6746.7	6679.2	6706.2	7040.8	7845.1	6152.5
45°	6701.7	6772.2	7099.3	7470.0	7660.6	7495.5	7426.5	7422.0	7699.6	8738.0	6943.3
47.5°	7258.4	7321.4	7707.1	8073.2	8412.4	8434.9	8304.3	8349.3	8527.9	9782.4	7912.7
50°	7941.2	8089.7	8343.3	8724.5	9177.7	9543.8	9584.3	9524.3	9677.4	10991.9	9077.1
52.5°	8933.1	8990.1	9222.7	9536.3	10067.5	10688.8	11170.5	11087.9	11039.9	12144.4	10253.6
55°	9672.9	9749.4	10111.0	10541.7	11320.5	12139.9	13184.3	13212.8	12606.5	13251.8	11404.6
57.5°	9449.3	9566.3	10114.0	10979.9	12692.1	14189.7	14967.0	14986.5	14056.1	14327.7	12704.1
60°	8301.3	8356.8	9141.7	10297.1	12809.1	16410.6	17495.5	17337.9	15531.2	15531.2	13852.0
62.5°	5886.9	5973.9	6610.1	8310.3	11568.1	17181.9	20523.7	20198.1	17563.0	16682.2	14536.3
65°	3762.0	3678.0	4099.6	5246.1	8617.9	16042.9	23160.3	23179.8	19474.8	17142.9	14162.7
67°	2725.1	2692.1	2813.6	3586.4	5843.3	13485.9	23215.8	24243.7	20573.2	16851.7	12968.2
67.5°	2492.5	2518.0	2606.5	3235.3	5309.1	12271.9	22963.7	24180.7	20820.8	16676.2	12536.0
70°	1889.3	1845.7	1941.8	2288.4	3182.8	7741.6	19753.9	22177.4	20513.2	14934.0	10016.5
72.5°	1389.6	1385.1	1518.6	1871.2	2450.5	4123.6	14828.9	17782.1	16758.7	11371.5	6307.0
75°	937.9	979.9	1193.0	1563.6	2220.9	2674.1	10109.5	12900.7	11634.2	6457.1	2578.0
77.5°	534.2	537.2	768.3	1256.0	1994.3	2151.9	5990.4	8218.8	6158.5	2147.4	765.3
80°	231.1	253.6	381.2	912.4	1653.7	1905.8	3434.9	4516.8	2491.0	454.7	247.6
82.5°	85.5	100.5	168.1	561.2	1206.5	1569.6	2075.3	2156.4	844.8	160.6	154.6
85°	0.0	3.0	61.5	262.6	628.8	700.8	1386.6	1278.5	373.6	76.5	100.5
87.5°	0.0	0.0	0.0	27.0	82.5	261.1	430.7	480.2	90.0	27.0	24.0
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°	5952.9	5952.9	5952.9	5952.9	5952.9	5952.9	5952.9	5952.9	5952.9	5952.9	5952.9
2.5°	5907.9	5810.3	5565.7	5321.1	5139.6	4988.0	4759.9	4635.4	4569.3	4471.8	4477.8
5°	5759.3	5561.2	5130.6	4684.9	4324.7	3973.6	3553.4	3383.9	3241.3	3160.3	3106.2
7.5°	5538.7	5246.1	4608.3	4014.1	3460.4	2846.6	2386.0	2078.3	1871.2	1794.7	1721.2
10°	5297.1	4908.5	4078.6	3254.8	2486.5	1853.2	1463.1	1181.0	1080.4	987.4	996.4
12.5°	5073.5	4600.8	3592.4	2569.0	1742.2	1178.0	918.4	802.8	769.8	759.3	759.3
15°	4890.5	4306.7	3070.2	1931.3	1194.5	846.3	735.3	703.8	691.8	688.8	688.8
17.5°	4695.4	4027.6	2599.0	1427.1	868.8	708.3	670.8	649.8	645.3	642.3	642.3
20°	4521.3	3747.0	2151.9	1062.4	702.3	637.8	613.7	600.2	595.7	592.7	594.2
22.5°	4356.2	3497.9	1731.7	802.8	618.2	580.7	556.7	543.2	534.2	526.7	528.2
25°	4209.2	3257.8	1392.6	657.3	556.7	523.7	499.7	480.2	460.7	451.7	450.2
27.5°	4105.6	3047.7	1084.9	562.7	501.2	465.2	435.2	411.2	385.7	372.1	369.1
30°	4020.1	2834.6	858.3	496.7	445.7	411.2	373.6	339.1	312.1	298.6	292.6
32.5°	3964.6	2632.1	676.8	442.7	399.2	357.1	315.1	280.6	250.6	237.1	234.1
35°	3955.6	2462.5	553.7	397.7	357.1	312.1	268.6	231.1	205.6	192.1	189.1
37.5°	4020.1	2331.9	463.7	361.6	322.6	273.1	225.1	190.6	168.1	157.6	156.1
40°	4192.7	2249.4	402.2	331.6	291.1	237.1	192.1	162.1	139.6	129.1	129.1
42.5°	4521.3	2252.4	361.6	303.1	259.6	202.6	163.6	135.1	115.5	106.5	103.5
45°	5034.5	2354.4	327.1	274.6	229.6	175.6	139.6	111.0	91.5	84.0	84.0
47.5°	5721.8	2557.0	297.1	246.1	202.6	150.1	118.5	90.0	73.5	66.0	66.0
50°	6620.6	2882.7	271.6	222.1	180.1	129.1	96.0	73.5	57.0	51.0	49.5
52.5°	7560.0	3284.8	241.6	201.1	154.6	109.5	78.0	57.0	43.5	39.0	37.5
55°	8596.9	3678.0	213.1	180.1	126.1	91.5	61.5	45.0	31.5	27.0	27.0
57.5°	9642.9	4063.6	178.6	150.1	99.0	67.5	48.0	33.0	21.0	16.5	16.5
60°	10528.2	4188.2	151.6	121.5	75.0	48.0	34.5	21.0	12.0	7.5	7.5
62.5°	10649.8	3768.0	127.6	93.0	54.0	33.0	18.0	12.0	4.5	3.0	3.0
65°	9989.5	3061.2	106.5	70.5	36.0	16.5	7.5	4.5	1.5	0.0	0.0
67°	8951.1	2482.0	87.0	52.5	25.5	10.5	4.5	1.5	0.0	0.0	0.0
67.5°	8685.5	2366.4	84.0	49.5	22.5	9.0	3.0	1.5	0.0	0.0	0.0
70°	6815.7	1772.2	60.0	30.0	13.5	6.0	0.0	0.0	0.0	0.0	0.0
72.5°	4236.2	1002.4	43.5	18.0	9.0	3.0	0.0	0.0	0.0	0.0	0.0
75°	1601.1	351.1	30.0	12.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	498.2	133.6	18.0	9.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	168.1	51.0	12.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	103.5	21.0	7.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	64.5	9.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.0	3.0	1.5	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)