

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: P454200

Luminaire Tested: **GALN-SA5B-740-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454200
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-SA5B-740-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 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: 23572 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

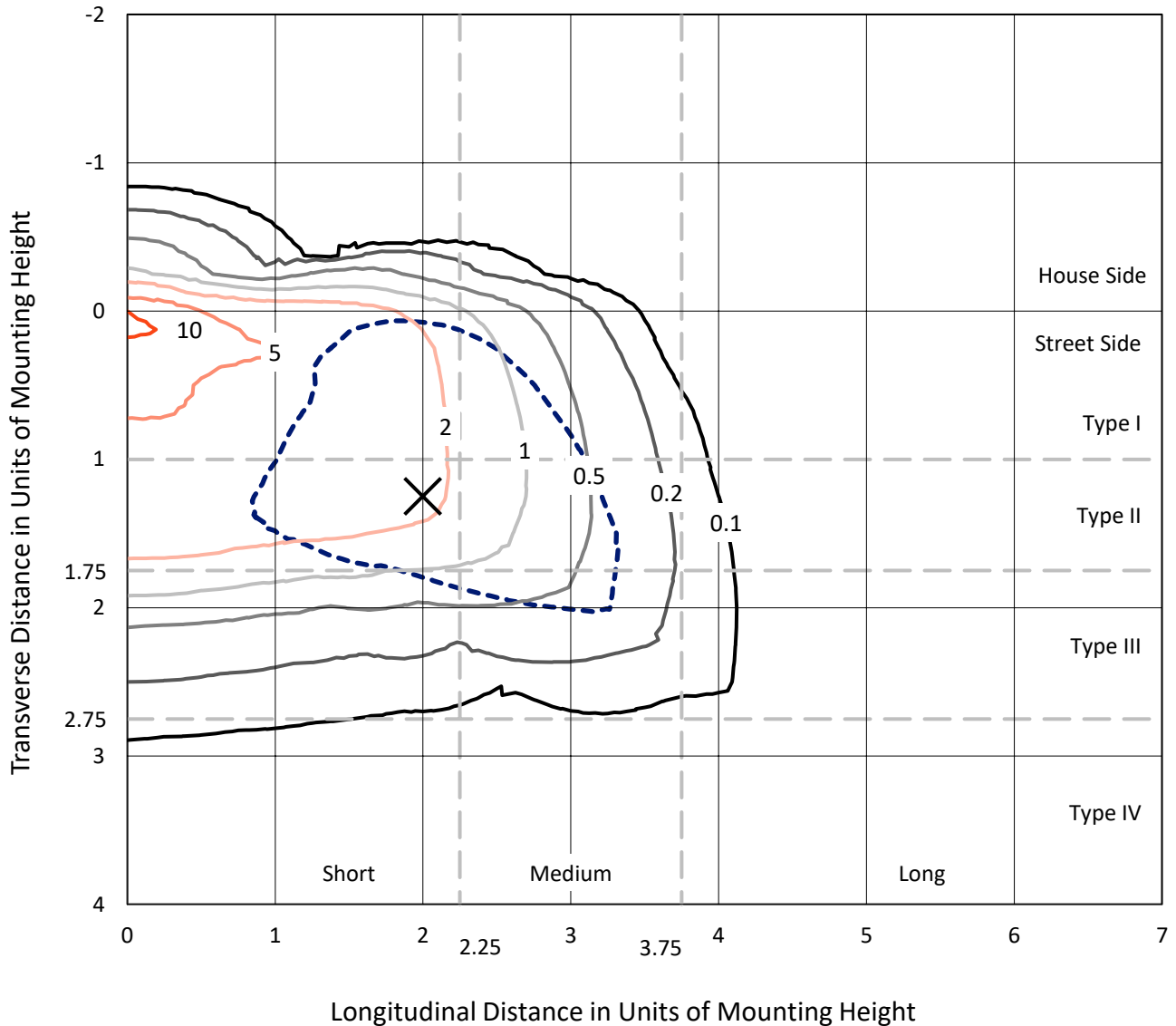
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

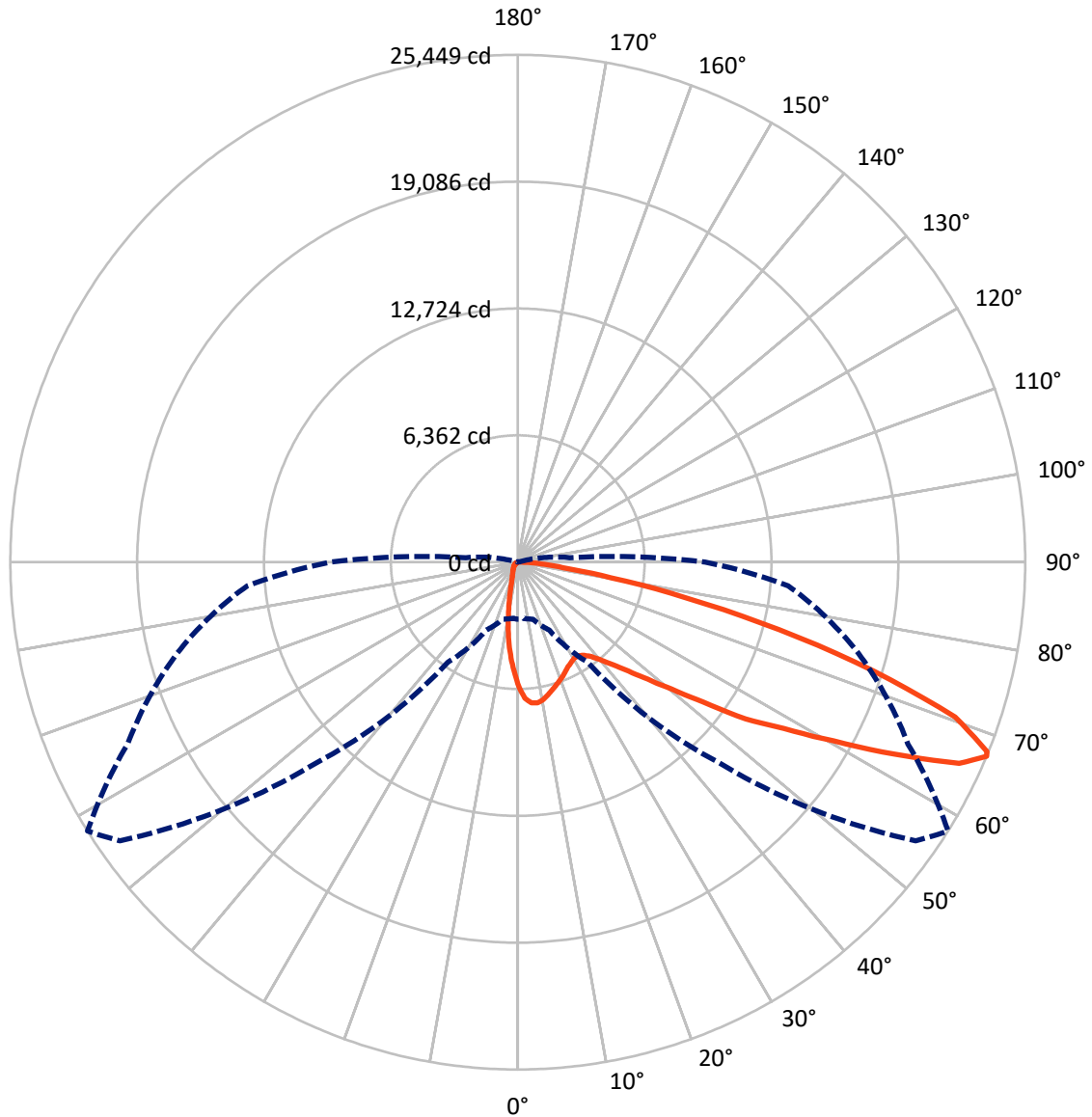
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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	1701.1	0.0	1701.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	21870.9	0.0	21870.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	23572.0	0.0	23572.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.1	2.2
10°-20°	1095.1	4.6
20°-30°	1484.0	6.3
30°-40°	2058.2	8.7
40°-50°	3282.6	13.9
50°-60°	5674.3	24.1
60°-70°	6481.8	27.5
70°-80°	2702.3	11.5
80°-90°	286.5	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°	23572.0	100.0
0°-180°	23572.0	100.0

Coefficient of Utilization



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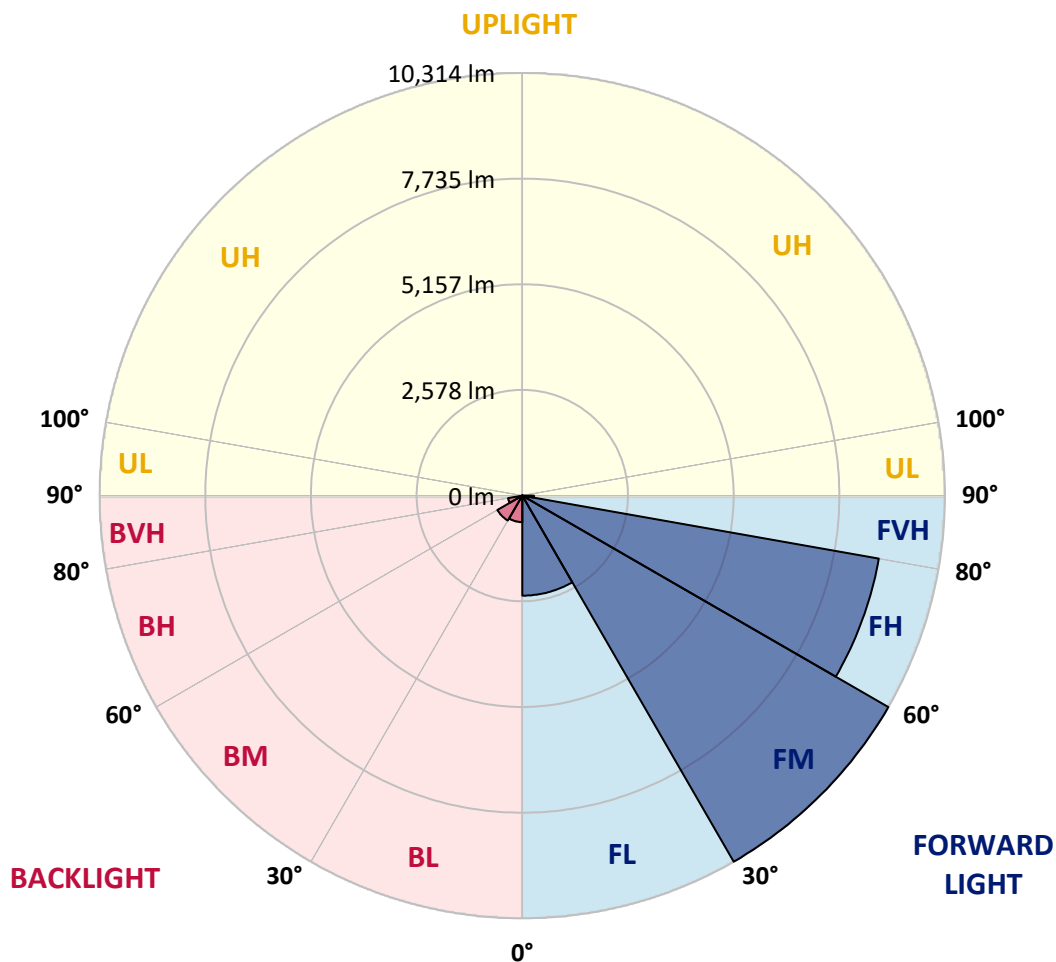
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2440.3	10.4			
FM	(30°-60°)	10313.7	43.8			
FH	(60°-80°)	8832.5	37.5			G4/12000
FVH	(80°-90°)	284.4	1.2			G3/500
BL	(0°-30°)	645.9	2.7	B2/1000		
BM	(30°-60°)	701.4	3.0	B1/1000		
BH	(60°-80°)	351.7	1.5	B1/500		G1/500
BVH	(80°-90°)	2.1	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°	6248.7	6248.7	6248.7	6248.7	6248.7	6248.7	6248.7	6248.7	6248.7	6248.7	6248.7
2.5°	7252.1	7263.1	7222.2	7189.1	7104.0	7012.7	6891.4	6826.8	6716.5	6526.0	6314.9
5°	7422.2	7436.4	7430.1	7422.2	7389.1	7300.9	7146.6	7089.9	6927.6	6617.3	6236.1
7.5°	7044.2	7096.2	7102.5	7163.9	7222.2	7230.1	7171.8	7129.2	6979.6	6615.7	6095.9
10°	6543.3	6577.9	6628.3	6699.2	6839.4	6956.0	7012.7	7006.4	6919.7	6566.9	5932.1
12.5°	6037.6	6056.5	6133.7	6255.0	6426.7	6625.2	6776.4	6806.3	6807.9	6508.6	5795.1
15°	5602.9	5595.0	5654.9	5795.1	6036.1	6284.9	6555.9	6603.1	6678.7	6451.9	5667.5
17.5°	5231.2	5272.1	5281.6	5435.9	5658.0	5980.9	6325.9	6409.4	6560.6	6403.1	5561.9
20°	5001.2	5023.2	5043.7	5130.3	5330.4	5670.6	6110.1	6225.1	6450.3	6359.0	5443.8
22.5°	4933.4	4947.6	4930.3	4957.1	5098.8	5401.3	5875.4	6028.2	6344.8	6318.0	5347.7
25°	4985.4	4999.6	4958.7	4927.1	4976.0	5182.3	5648.6	5834.4	6259.7	6310.2	5275.3
27.5°	5111.4	5138.2	5081.5	5024.8	4996.5	5064.2	5470.6	5686.4	6201.5	6348.0	5242.2
30°	5308.3	5324.1	5281.6	5212.3	5147.7	5079.9	5377.6	5584.0	6185.7	6436.2	5239.0
32.5°	5522.6	5555.6	5532.0	5486.3	5402.9	5242.2	5404.4	5587.1	6223.5	6563.8	5278.4
35°	5787.2	5825.0	5847.1	5837.6	5730.5	5530.4	5574.5	5728.9	6324.3	6798.5	5385.5
37.5°	6047.1	6080.2	6204.6	6247.1	6152.6	5963.6	5905.3	6007.7	6546.4	7105.6	5579.3
40°	6344.8	6388.9	6563.8	6726.0	6680.3	6481.8	6374.7	6459.8	6886.7	7568.7	5946.3
42.5°	6629.9	6708.7	6974.9	7261.6	7304.1	7082.0	7011.1	7039.5	7390.7	8235.0	6458.2
45°	7034.7	7108.8	7452.2	7841.2	8041.3	7868.0	7795.5	7790.8	8082.2	9172.2	7288.3
47.5°	7619.1	7685.3	8090.1	8474.4	8830.4	8854.1	8717.0	8764.3	8951.7	10268.6	8305.9
50°	8335.8	8491.8	8758.0	9158.1	9633.8	10018.1	10060.6	9997.6	10158.3	11538.2	9528.2
52.5°	9377.0	9436.9	9681.0	10010.2	10567.9	11220.0	11725.6	11639.0	11588.6	12747.9	10763.2
55°	10153.6	10233.9	10613.5	11065.6	11883.1	12743.2	13839.5	13869.4	13233.0	13910.4	11971.3
57.5°	9918.9	10041.7	10616.7	11525.6	13322.8	14894.9	15710.8	15731.3	14754.7	15039.8	13335.4
60°	8713.9	8772.2	9596.0	10808.9	13445.7	17226.1	18365.0	18199.6	16303.1	16303.1	14540.4
62.5°	6179.4	6270.8	6938.6	8723.3	12143.0	18035.8	21543.7	21201.9	18435.9	17511.2	15258.7
65°	3949.0	3860.8	4303.4	5506.8	9046.2	16840.2	24311.3	24331.7	20442.6	17994.8	14866.5
67°	2860.5	2825.9	2953.5	3764.7	6133.7	14156.1	24369.5	25448.5	21595.7	17689.2	13612.7
67.5°	2616.4	2643.1	2736.1	3396.1	5573.0	12881.8	24104.9	25382.4	21855.6	17504.9	13159.0
70°	1983.1	1937.5	2038.3	2402.1	3340.9	8126.3	20735.6	23279.5	21532.6	15676.1	10514.3
72.5°	1458.6	1453.9	1594.1	1964.2	2572.3	4328.6	15565.9	18665.8	17591.6	11936.7	6620.5
75°	984.5	1028.6	1252.3	1641.3	2331.3	2807.0	10612.0	13541.8	12212.3	6778.0	2706.2
77.5°	560.8	563.9	806.5	1318.4	2093.4	2258.8	6288.1	8627.2	6464.5	2254.1	803.3
80°	242.6	266.2	400.1	957.7	1735.8	2000.5	3605.6	4741.3	2614.8	477.3	259.9
82.5°	89.8	105.5	176.4	589.1	1266.4	1647.6	2178.5	2263.5	886.8	168.5	162.2
85°	0.0	3.2	64.6	275.7	660.0	735.6	1455.5	1342.0	392.2	80.3	105.5
87.5°	0.0	0.0	0.0	28.4	86.6	274.1	452.1	504.1	94.5	28.4	25.2
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°	6248.7	6248.7	6248.7	6248.7	6248.7	6248.7	6248.7	6248.7	6248.7	6248.7	6248.7
2.5°	6201.5	6099.1	5842.3	5585.6	5395.0	5235.9	4996.5	4865.7	4796.4	4694.0	4700.3
5°	6045.5	5837.6	5385.5	4917.7	4539.7	4171.1	3730.0	3552.0	3402.4	3317.3	3260.6
7.5°	5814.0	5506.8	4837.4	4213.6	3632.4	2988.1	2504.5	2181.6	1964.2	1883.9	1806.7
10°	5560.4	5152.4	4281.3	3416.6	2610.1	1945.3	1535.8	1239.7	1134.1	1036.5	1045.9
12.5°	5325.7	4829.5	3771.0	2696.7	1828.8	1236.5	964.0	842.7	808.1	797.0	797.0
15°	5133.5	4520.8	3222.8	2027.3	1253.8	888.4	771.8	738.8	726.2	723.0	723.0
17.5°	4928.7	4227.8	2728.2	1498.0	912.0	743.5	704.1	682.1	677.3	674.2	674.2
20°	4746.0	3933.2	2258.8	1115.2	737.2	669.4	644.2	630.1	625.3	622.2	623.8
22.5°	4572.7	3671.7	1817.8	842.7	649.0	609.6	584.4	570.2	560.8	552.9	554.5
25°	4418.4	3419.7	1461.8	689.9	584.4	549.7	524.5	504.1	483.6	474.1	472.6
27.5°	4309.7	3199.2	1138.9	590.7	526.1	488.3	456.8	431.6	404.8	390.6	387.5
30°	4219.9	2975.5	901.0	521.4	467.8	431.6	392.2	356.0	327.6	313.5	307.2
32.5°	4161.6	2762.9	710.4	464.7	419.0	374.9	330.8	294.6	263.1	248.9	245.7
35°	4152.2	2584.9	581.2	417.4	374.9	327.6	282.0	242.6	215.8	201.6	198.5
37.5°	4219.9	2447.8	486.7	379.6	338.7	286.7	236.3	200.0	176.4	165.4	163.8
40°	4401.0	2361.2	422.1	348.1	305.6	248.9	201.6	170.1	146.5	135.5	135.5
42.5°	4746.0	2364.3	379.6	318.2	272.5	212.6	171.7	141.8	121.3	111.8	108.7
45°	5284.7	2471.5	343.4	288.3	241.0	184.3	146.5	116.6	96.1	88.2	88.2
47.5°	6006.1	2684.1	311.9	258.3	212.6	157.5	124.4	94.5	77.2	69.3	69.3
50°	6949.7	3025.9	285.1	233.1	189.0	135.5	100.8	77.2	59.9	53.6	52.0
52.5°	7935.7	3448.1	253.6	211.1	162.2	115.0	81.9	59.9	45.7	41.0	39.4
55°	9024.2	3860.8	223.7	189.0	132.3	96.1	64.6	47.3	33.1	28.4	28.4
57.5°	10122.1	4265.6	187.4	157.5	104.0	70.9	50.4	34.7	22.1	17.3	17.3
60°	11051.4	4396.3	159.1	127.6	78.8	50.4	36.2	22.1	12.6	7.9	7.9
62.5°	11179.0	3955.3	133.9	97.7	56.7	34.7	18.9	12.6	4.7	3.2	3.2
65°	10485.9	3213.4	111.8	74.0	37.8	17.3	7.9	4.7	1.6	0.0	0.0
67°	9395.9	2605.3	91.4	55.1	26.8	11.0	4.7	1.6	0.0	0.0	0.0
67.5°	9117.1	2484.1	88.2	52.0	23.6	9.5	3.2	1.6	0.0	0.0	0.0
70°	7154.4	1860.3	63.0	31.5	14.2	6.3	0.0	0.0	0.0	0.0	0.0
72.5°	4446.7	1052.2	45.7	18.9	9.5	3.2	0.0	0.0	0.0	0.0	0.0
75°	1680.7	368.6	31.5	12.6	6.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	523.0	140.2	18.9	9.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	176.4	53.6	12.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	108.7	22.1	7.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	67.7	9.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.6	3.2	1.6	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)