

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: P459215

Luminaire Tested: **GALN-SA7A-735-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459215
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24284 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

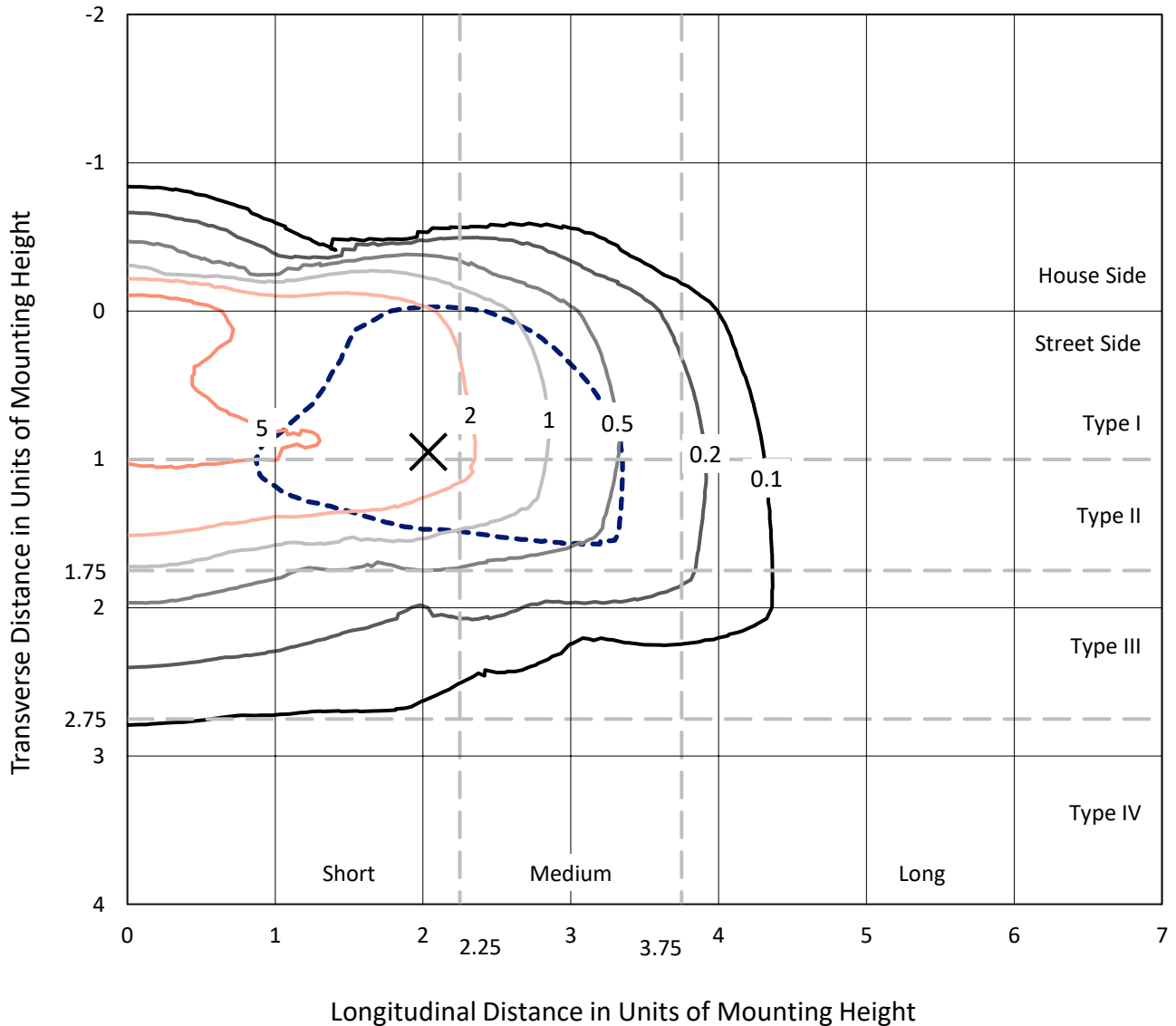
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

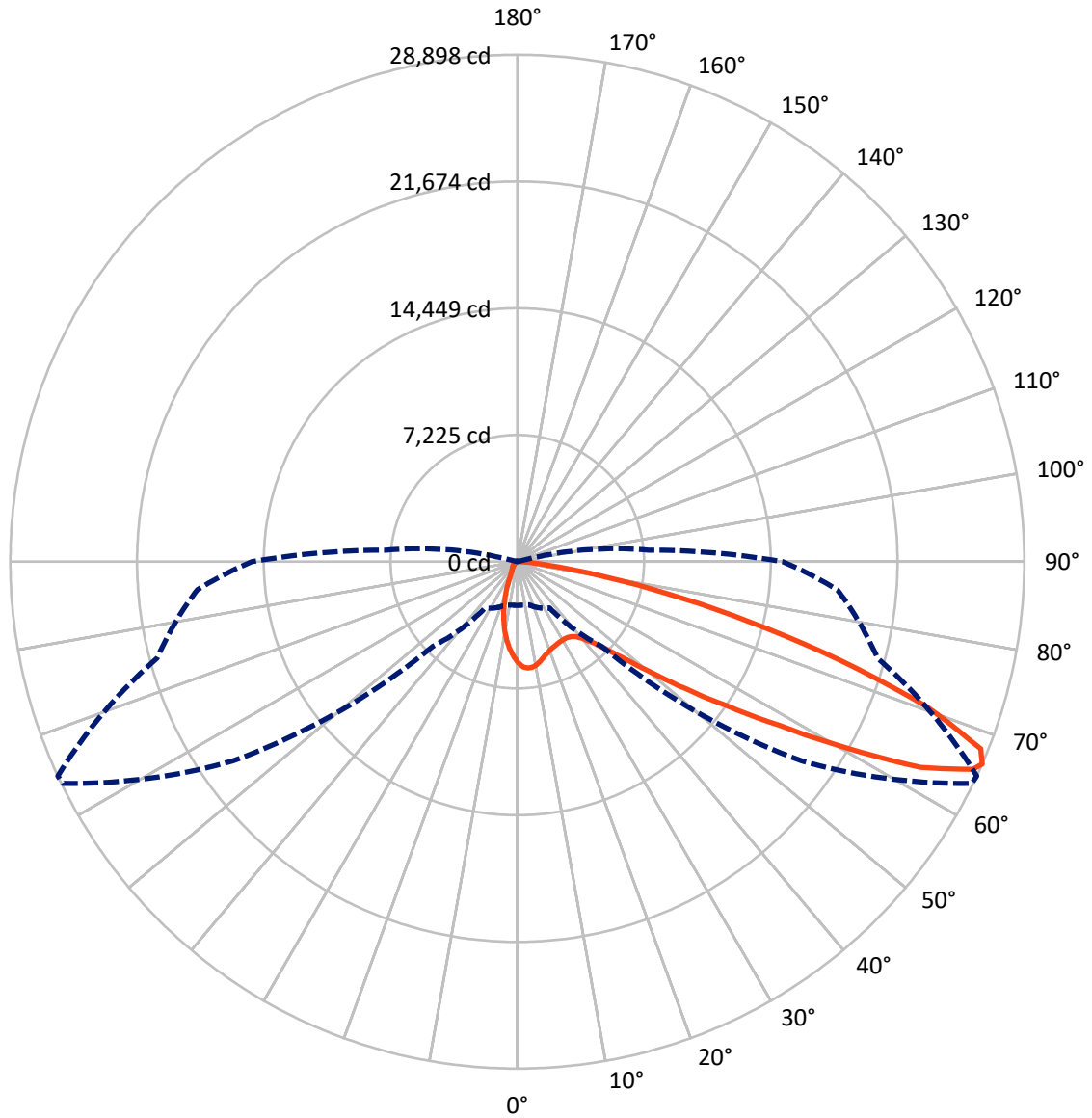
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2511.3	0.0	2511.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	21772.7	0.0	21772.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	24284.0	0.0	24284.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.0	1.9
10°-20°	1026.2	4.2
20°-30°	1470.0	6.1
30°-40°	2147.1	8.8
40°-50°	3600.2	14.8
50°-60°	6008.2	24.7
60°-70°	6377.5	26.3
70°-80°	2888.4	11.9
80°-90°	295.5	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°	24284.0	100.0
0°-180°	24284.0	100.0



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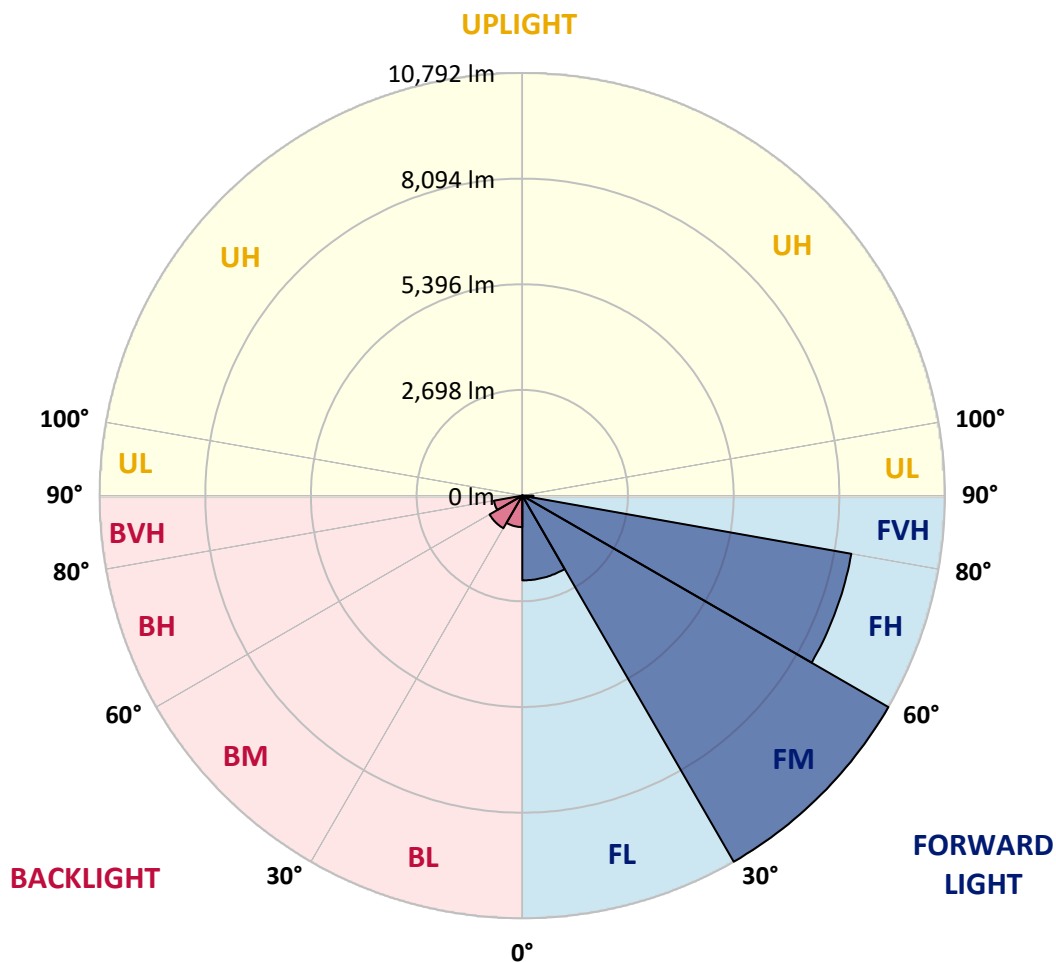
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2163.8	8.9			
FM	(30°-60°)	10792.4	44.4			
FH	(60°-80°)	8530.4	35.1			G4/12000
FVH	(80°-90°)	286.1	1.2			G3/500
BL	(0°-30°)	803.3	3.3	B2/1000		
BM	(30°-60°)	963.1	4.0	B1/1000		
BH	(60°-80°)	735.5	3.0	B2/1000		G2/1000
BVH	(80°-90°)	9.4	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	5758.6	5758.6	5758.6	5758.6	5758.6	5758.6	5758.6	5758.6	5758.6	5758.6	5758.6
2.5°	6068.6	6075.2	6083.4	6094.9	6103.1	6078.5	6044.0	6004.7	5996.5	5912.8	5811.1
5°	5743.9	5753.7	5825.9	5865.2	5953.8	6034.2	6085.0	6091.6	6088.3	6009.6	5847.2
7.5°	5281.3	5309.2	5379.8	5448.6	5614.3	5766.8	5947.3	6073.5	6081.7	6060.4	5858.7
10°	4905.7	4923.8	4959.9	5096.0	5233.8	5466.7	5719.3	5957.1	5976.8	6062.1	5848.8
12.5°	4612.2	4638.4	4682.7	4787.7	4953.3	5173.1	5460.1	5780.0	5821.0	6030.9	5821.0
15°	4407.1	4420.3	4464.5	4567.9	4728.6	4932.0	5222.3	5594.6	5630.7	5989.9	5816.0
17.5°	4310.4	4325.1	4356.3	4438.3	4571.1	4759.8	5043.5	5445.4	5491.3	5963.7	5834.1
20°	4336.6	4349.7	4351.4	4394.0	4484.2	4643.3	4912.3	5305.9	5365.0	5947.3	5863.6
22.5°	4485.9	4487.5	4467.8	4448.1	4479.3	4594.1	4831.9	5217.4	5278.1	5944.0	5898.0
25°	4708.9	4713.8	4681.0	4612.2	4549.8	4608.9	4813.9	5160.0	5214.1	5935.8	5919.4
27.5°	5017.3	5015.6	5005.8	4891.0	4713.8	4674.5	4828.7	5128.8	5174.7	5912.8	5927.6
30°	5448.6	5435.5	5414.2	5284.6	5014.0	4833.6	4891.0	5109.1	5151.8	5880.0	5906.2
32.5°	5873.4	5922.6	5919.4	5796.4	5458.5	5117.3	5020.6	5135.4	5166.5	5858.7	5875.1
35°	6368.8	6367.1	6493.4	6447.5	6052.2	5479.8	5242.0	5222.3	5246.9	5873.4	5860.3
37.5°	6828.0	6870.7	7067.5	7115.1	6754.2	5991.5	5555.3	5409.3	5417.5	5973.5	5896.4
40°	7400.4	7482.4	7776.0	7935.1	7616.9	6750.9	6017.8	5752.1	5753.7	6219.5	6032.5
42.5°	8138.5	8268.1	8542.0	8807.7	8637.1	7649.7	6711.6	6295.0	6291.7	6652.5	6344.2
45°	9035.7	9125.9	9437.5	9859.1	9750.8	8904.5	7721.9	7136.4	7093.7	7362.7	6896.9
47.5°	9809.8	9932.9	10249.4	10730.0	11222.0	10436.4	8929.1	8292.7	8264.8	8492.8	7844.9
50°	10147.7	10256.0	10588.9	11263.0	12455.4	12447.2	10726.7	9980.4	9932.9	10055.9	9311.2
52.5°	9777.0	9878.7	10215.0	11054.7	13036.1	14897.7	13331.3	12097.9	12040.5	11883.0	11062.9
55°	8507.6	8591.2	9088.2	10052.6	12813.0	16531.3	16920.0	14714.0	14490.9	13879.1	13045.9
57.5°	6773.9	6731.3	7039.6	8159.8	11504.1	17079.1	20603.8	17973.0	17574.4	15604.6	14723.8
60°	4694.2	4825.4	4950.0	5688.1	8650.2	16129.4	22895.1	22070.1	21545.3	17302.1	16331.2
62.5°	3450.9	3537.8	3619.9	3961.0	5438.8	12878.6	23300.2	26278.8	25813.0	19104.7	17864.7
65°	2729.2	2735.8	2768.6	3104.8	3583.8	8374.7	21353.4	28652.1	28532.4	20840.0	18486.3
66°	2486.5	2488.1	2539.0	2899.8	3216.4	6819.8	19793.6	28832.5	28898.1	21256.6	18304.3
67.5°	2173.2	2166.7	2240.5	2606.2	2929.3	4917.2	17002.0	28101.0	28489.7	21576.4	17649.9
70°	1684.5	1676.3	1766.5	2186.3	2698.1	3280.3	11300.8	24128.5	24755.1	20922.0	15616.0
72.5°	1121.9	1128.4	1282.6	1725.5	2575.1	2888.3	6798.5	18355.1	19240.8	17277.5	12284.9
75°	654.4	665.9	841.4	1282.6	2235.5	2753.8	3847.8	13088.5	13654.4	11930.6	7653.0
77.5°	342.8	347.7	470.7	846.3	1714.0	2557.0	2563.6	8361.6	8627.3	5798.0	3029.4
80°	182.1	177.1	252.6	510.1	1179.3	2245.4	2079.7	4426.8	4602.3	1722.2	766.0
82.5°	68.9	75.4	134.5	334.6	697.1	1612.3	1791.1	1956.7	1896.0	378.9	321.5
85°	13.1	16.4	57.4	198.5	351.0	674.1	1320.3	959.5	889.0	142.7	185.3
87.5°	1.6	3.3	16.4	47.6	50.8	228.0	390.4	265.7	229.6	52.5	77.1
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°	5758.6	5758.6	5758.6	5758.6	5758.6	5758.6	5758.6	5758.6	5758.6	5758.6	5758.6
2.5°	5761.9	5717.6	5570.0	5424.0	5274.8	5140.3	5048.4	4899.2	4861.5	4807.3	4776.2
5°	5750.4	5647.1	5363.4	5053.4	4764.7	4453.1	4215.2	3985.6	3862.6	3800.3	3777.3
7.5°	5717.6	5553.6	5110.8	4625.3	4162.7	3696.9	3291.8	2983.5	2785.0	2648.9	2557.0
10°	5652.0	5425.7	4817.2	4149.6	3450.9	2835.9	2322.5	1932.1	1630.3	1535.2	1538.5
12.5°	5584.8	5283.0	4489.1	3621.5	2755.5	1979.7	1435.1	1126.8	982.5	934.9	925.1
15°	5522.4	5146.8	4167.7	3109.8	2051.9	1282.6	925.1	816.8	777.4	769.2	767.6
17.5°	5489.6	5020.6	3824.9	2524.2	1431.9	870.9	741.4	711.8	700.4	692.2	688.9
20°	5461.8	4910.7	3496.8	1976.4	979.2	713.5	664.3	636.4	616.7	608.5	603.6
22.5°	5442.1	4797.5	3157.3	1530.3	749.6	633.1	588.8	552.7	524.9	515.0	508.5
25°	5412.6	4672.8	2814.5	1118.6	631.5	562.6	511.7	469.1	433.0	415.0	411.7
27.5°	5369.9	4531.8	2438.9	828.3	564.2	500.3	437.9	385.4	349.4	329.7	331.3
30°	5301.0	4384.2	2063.3	657.7	510.1	436.3	369.0	318.2	283.7	269.0	267.3
32.5°	5219.0	4205.4	1718.9	564.2	460.9	378.9	308.4	264.1	237.8	226.3	224.7
35°	5141.9	4025.0	1367.9	506.8	410.0	326.4	259.1	221.4	201.7	191.9	193.5
37.5°	5099.3	3864.2	1066.1	460.9	369.0	280.5	223.1	190.3	172.2	164.0	162.4
40°	5127.2	3733.0	848.0	419.9	323.1	241.1	191.9	164.0	146.0	134.5	134.5
42.5°	5258.4	3675.6	684.0	380.5	280.5	208.3	167.3	141.1	121.4	109.9	111.5
45°	5658.6	3736.3	572.4	344.4	241.1	180.4	144.3	116.5	98.4	90.2	88.6
47.5°	6322.9	3964.3	495.3	306.7	206.7	154.2	121.4	96.8	78.7	72.2	70.5
50°	7484.1	4435.0	437.9	269.0	175.5	131.2	100.1	77.1	62.3	55.8	55.8
52.5°	9081.6	5461.8	396.9	226.3	147.6	111.5	82.0	62.3	49.2	44.3	42.6
55°	10751.3	6544.3	375.6	190.3	123.0	91.8	65.6	49.2	37.7	32.8	31.2
57.5°	12357.0	7393.9	351.0	154.2	98.4	70.5	50.8	37.7	26.2	23.0	21.3
60°	13897.1	8081.1	298.5	123.0	77.1	50.8	37.7	26.2	18.0	14.8	14.8
62.5°	15274.9	8481.3	234.5	98.4	59.0	36.1	24.6	19.7	13.1	9.8	9.8
65°	15435.6	7961.4	177.1	75.4	42.6	23.0	14.8	14.8	9.8	6.6	6.6
66°	15112.5	7520.2	155.8	68.9	37.7	19.7	13.1	11.5	8.2	4.9	4.9
67.5°	14390.8	6767.3	134.5	59.0	31.2	14.8	9.8	9.8	6.6	3.3	3.3
70°	12434.1	5527.4	106.6	44.3	23.0	11.5	6.6	6.6	4.9	3.3	3.3
72.5°	9476.9	4126.7	86.9	32.8	16.4	8.2	4.9	4.9	4.9	3.3	3.3
75°	5716.0	2222.4	67.2	24.6	14.8	6.6	3.3	4.9	6.6	4.9	3.3
77.5°	2106.0	756.1	52.5	19.7	11.5	6.6	3.3	3.3	6.6	4.9	4.9
80°	516.7	196.8	37.7	16.4	11.5	6.6	3.3	3.3	6.6	6.6	6.6
82.5°	239.5	83.6	26.2	14.8	11.5	6.6	3.3	3.3	4.9	6.6	6.6
85°	137.8	39.4	21.3	16.4	11.5	6.6	3.3	3.3	4.9	6.6	6.6
87.5°	55.8	19.7	19.7	16.4	13.1	8.2	3.3	3.3	3.3	4.9	4.9
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)