

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: P648155

Luminaire Tested: **GALN-SA9A-835-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648155
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-SA9A-835-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 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: 26852.2 lumens
Efficiency: N/A
Efficacy: 98.0 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

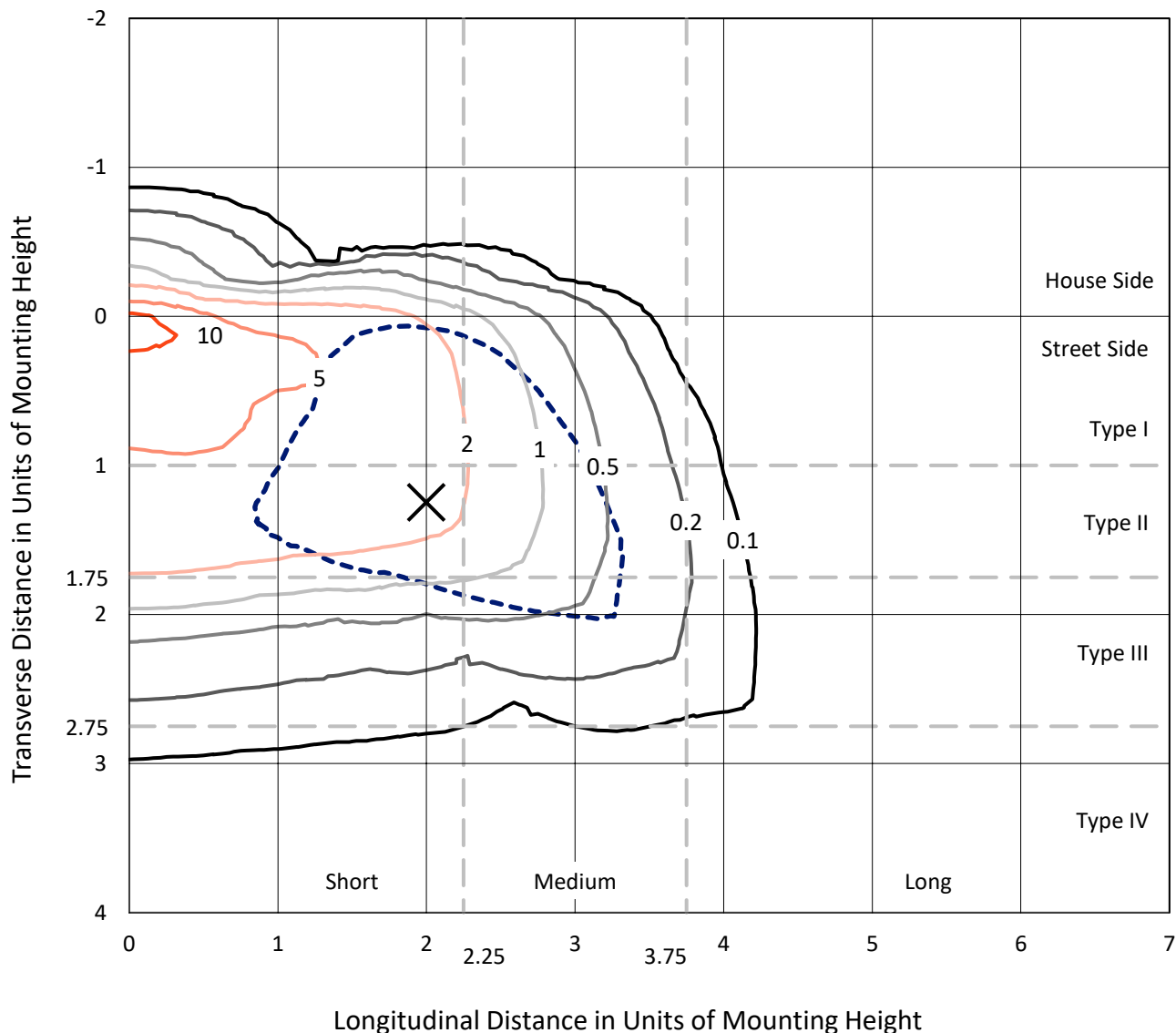
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

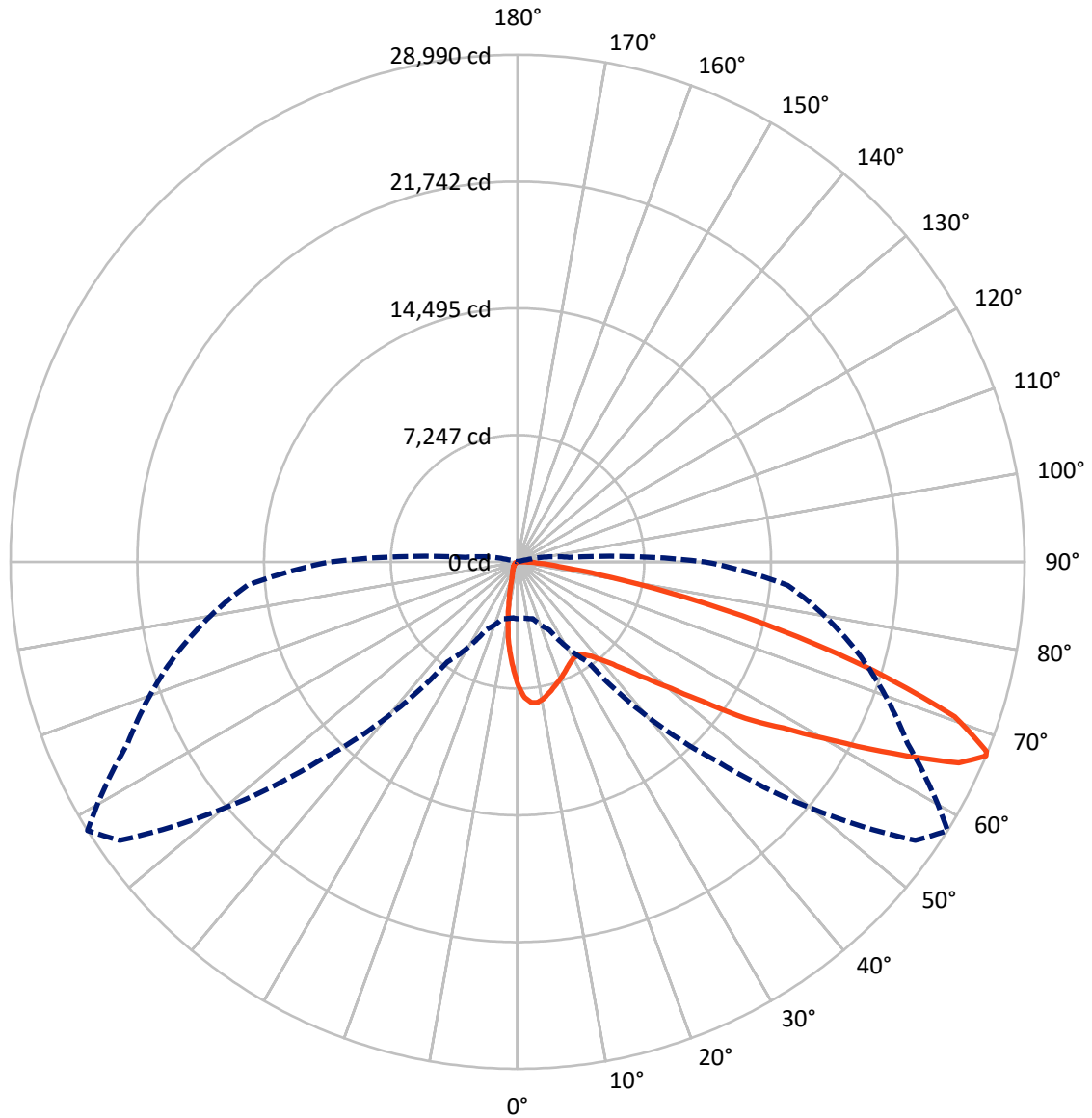
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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	1937.8	0.0	1937.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	24914.4	0.0	24914.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	26852.2	0.0	26852.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.6	2.2
10°-20°	1247.5	4.6
20°-30°	1690.5	6.3
30°-40°	2344.6	8.7
40°-50°	3739.4	13.9
50°-60°	6463.9	24.1
60°-70°	7383.8	27.5
70°-80°	3078.4	11.5
80°-90°	326.4	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°	26852.2	100.0
0°-180°	26852.2	100.0

Coefficient of Utilization



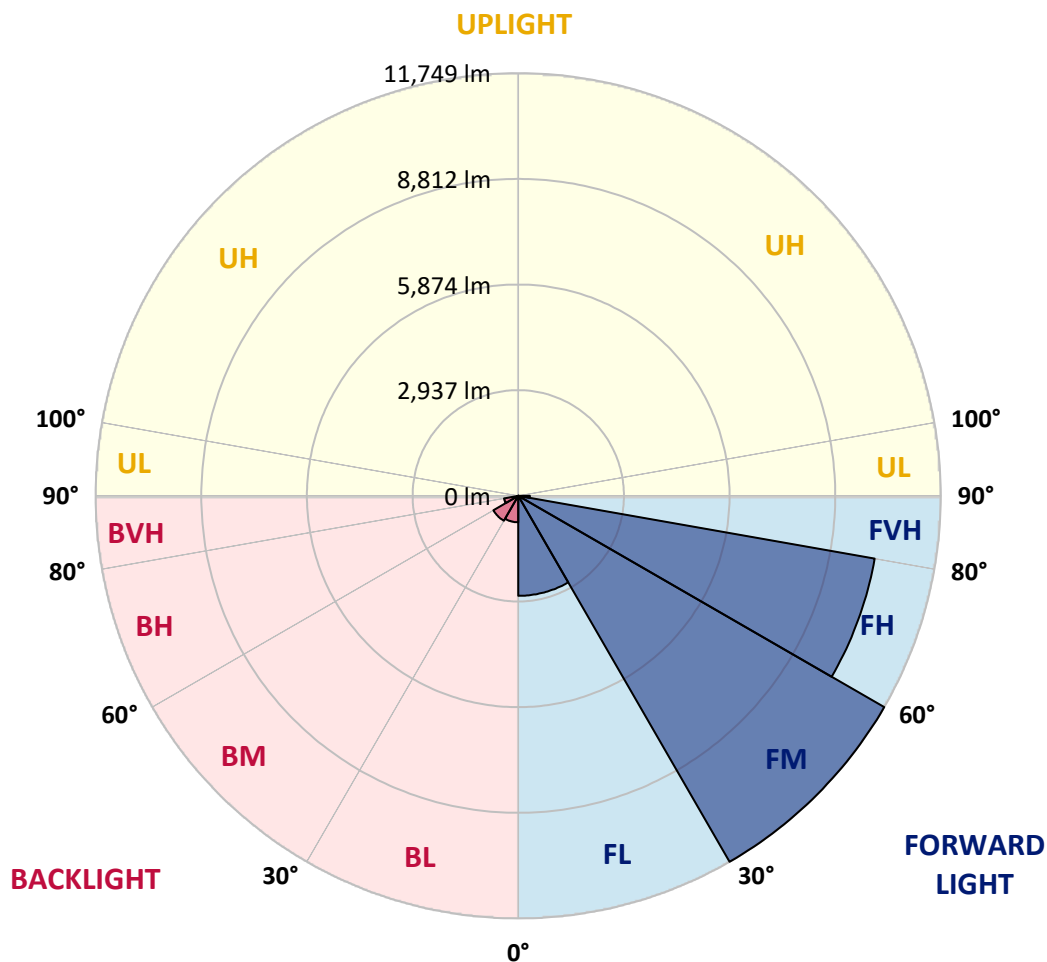
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2779.8	10.4			
FM (30°-60°)	11749.0	43.8			
FH (60°-80°)	10061.6	37.5			G4/12000
FVH (80°-90°)	324.0	1.2			G3/500
BL (0°-30°)	735.8	2.7	B2/1000		
BM (30°-60°)	799.0	3.0	B1/1000		
BH (60°-80°)	400.6	1.5	B1/500		G1/500
BVH (80°-90°)	2.4	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7118.3	7118.3	7118.3	7118.3	7118.3	7118.3	7118.3	7118.3	7118.3	7118.3	7118.3
2.5°	8261.3	8273.9	8227.2	8189.5	8092.6	7988.6	7850.4	7776.8	7651.2	7434.1	7193.7
5°	8455.1	8471.2	8464.1	8455.1	8417.4	8316.9	8141.1	8076.5	7891.6	7538.2	7103.9
7.5°	8024.4	8083.6	8090.8	8160.8	8227.2	8236.1	8169.7	8121.4	7950.9	7536.4	6944.2
10°	7453.8	7493.3	7550.7	7631.4	7791.2	7924.0	7988.6	7981.4	7882.7	7480.7	6757.6
12.5°	6877.8	6899.3	6987.3	7125.5	7321.0	7547.1	7719.4	7753.5	7755.3	7414.3	6601.5
15°	6382.5	6373.6	6441.8	6601.5	6876.1	7159.5	7468.2	7522.0	7608.1	7349.7	6456.1
17.5°	5959.1	6005.8	6016.5	6192.4	6445.4	6813.2	7206.2	7301.3	7473.6	7294.1	6336.0
20°	5697.1	5722.2	5745.6	5844.2	6072.2	6459.8	6960.4	7091.3	7348.0	7243.8	6201.4
22.5°	5620.0	5636.1	5616.4	5646.9	5808.4	6152.9	6693.0	6867.1	7227.7	7197.3	6091.9
25°	5679.2	5695.3	5648.7	5612.8	5668.5	5903.5	6434.6	6646.3	7130.9	7188.3	6009.4
27.5°	5822.7	5853.2	5788.6	5724.0	5691.8	5768.9	6231.8	6477.7	7064.5	7231.3	5971.7
30°	6047.0	6065.0	6016.5	5937.6	5864.0	5786.8	6126.0	6361.0	7046.5	7331.8	5968.1
32.5°	6291.1	6328.8	6301.8	6249.8	6154.7	5971.7	6156.5	6364.6	7089.6	7477.2	6013.0
35°	6592.5	6635.6	6660.7	6649.9	6527.9	6300.0	6350.3	6526.1	7204.4	7744.5	6135.0
37.5°	6888.6	6926.3	7068.1	7116.5	7008.8	6793.5	6727.1	6843.7	7457.4	8094.4	6355.7
40°	7227.7	7278.0	7477.2	7662.0	7609.9	7383.8	7261.9	7358.7	7845.0	8621.9	6773.7
42.5°	7552.5	7642.2	7945.5	8272.1	8320.5	8067.5	7986.8	8019.0	8419.2	9381.0	7356.9
45°	8013.7	8098.0	8489.2	8932.4	9160.2	8962.9	8880.3	8875.0	9206.9	10448.6	8302.5
47.5°	8679.4	8754.7	9215.9	9653.7	10059.3	10086.1	9930.1	9983.9	10197.4	11697.5	9461.7
50°	9495.8	9673.5	9976.7	10432.5	10974.4	11412.2	11460.6	11388.9	11571.9	13143.8	10854.2
52.5°	10681.9	10750.0	11028.2	11403.2	12038.5	12781.3	13357.3	13258.6	13201.2	14521.8	12260.9
55°	11566.6	11658.0	12090.5	12605.4	13536.7	14516.4	15765.3	15799.5	15074.6	15846.1	13637.2
57.5°	11299.2	11439.1	12094.1	13129.4	15176.8	16967.6	17897.0	17920.4	16807.9	17132.7	15191.1
60°	9926.5	9992.9	10931.3	12313.0	15316.7	19623.2	20920.6	20732.2	18571.7	18571.7	16563.8
62.5°	7039.3	7143.4	7904.2	9937.2	13832.8	20545.5	24541.6	24152.3	21001.3	19948.0	17382.1
65°	4498.5	4398.0	4902.2	6273.2	10305.1	19183.7	27694.3	27717.7	23287.4	20498.9	16935.3
67°	3258.6	3219.1	3364.5	4288.6	6987.3	16126.0	27760.7	28989.9	24600.8	20150.8	15506.9
67.5°	2980.5	3010.9	3116.8	3868.6	6348.5	14674.4	27459.3	28914.5	24896.9	19940.8	14990.1
70°	2259.1	2207.0	2321.9	2736.4	3805.8	9257.2	23621.1	26519.0	24529.0	17857.6	11977.4
72.5°	1661.6	1656.2	1815.9	2237.6	2930.2	4930.9	17732.0	21263.3	20039.6	13597.7	7541.8
75°	1121.5	1171.8	1426.5	1869.7	2655.7	3197.5	12088.7	15426.2	13911.8	7721.2	3082.7
77.5°	638.8	642.4	918.7	1501.9	2384.7	2573.1	7163.1	9827.7	7364.1	2567.8	915.1
80°	276.3	303.3	455.8	1091.0	1977.4	2278.8	4107.3	5401.1	2978.7	543.7	296.1
82.5°	102.3	120.2	201.0	671.1	1442.7	1876.9	2481.6	2578.5	1010.2	192.0	184.8
85°	0.0	3.6	73.6	314.0	751.8	838.0	1658.0	1528.8	446.8	91.5	120.2
87.5°	0.0	0.0	0.0	32.3	98.7	312.2	515.0	574.2	107.7	32.3	28.7
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°	7118.3	7118.3	7118.3	7118.3	7118.3	7118.3	7118.3	7118.3	7118.3	7118.3	7118.3
2.5°	7064.5	6947.8	6655.3	6362.8	6145.7	5964.5	5691.8	5542.8	5463.9	5347.3	5354.4
5°	6886.8	6649.9	6135.0	5602.1	5171.4	4751.5	4249.1	4046.3	3875.8	3778.9	3714.3
7.5°	6623.0	6273.2	5510.5	4799.9	4137.8	3403.9	2853.0	2485.2	2237.6	2146.0	2058.1
10°	6334.2	5869.4	4877.1	3892.0	2973.3	2216.0	1749.5	1412.1	1292.0	1180.7	1191.5
12.5°	6066.8	5501.5	4295.7	3071.9	2083.2	1408.6	1098.2	960.0	920.5	908.0	908.0
15°	5847.8	5149.9	3671.3	2309.4	1428.3	1012.0	879.2	841.6	827.2	823.6	823.6
17.5°	5614.6	4816.1	3107.9	1706.5	1039.0	847.0	802.1	777.0	771.6	768.0	768.0
20°	5406.5	4480.6	2573.1	1270.4	839.8	762.6	733.9	717.8	712.4	708.8	710.6
22.5°	5209.1	4182.7	2070.7	960.0	739.3	694.4	665.7	649.6	638.8	629.8	631.6
25°	5033.2	3895.6	1665.2	785.9	665.7	626.2	597.5	574.2	550.8	540.1	538.3
27.5°	4909.4	3644.4	1297.4	672.9	599.3	556.2	520.4	491.6	461.2	445.0	441.4
30°	4807.2	3389.6	1026.4	593.9	532.9	491.6	446.8	405.5	373.3	357.0	349.9
32.5°	4740.8	3147.3	809.2	529.3	477.3	427.0	376.8	335.5	299.7	283.5	279.9
35°	4729.9	2944.5	662.1	475.5	427.0	373.3	321.2	276.3	245.9	229.7	226.1
37.5°	4807.2	2788.4	554.4	432.5	385.8	326.6	269.1	227.9	201.0	188.4	186.6
40°	5013.5	2689.8	480.9	396.6	348.1	283.5	229.7	193.8	166.9	154.3	154.3
42.5°	5406.5	2693.4	432.5	362.5	310.5	242.3	195.6	161.5	138.2	127.4	123.8
45°	6020.1	2815.4	391.2	328.4	274.5	209.9	166.9	132.8	109.5	100.5	100.5
47.5°	6841.9	3057.6	355.2	294.3	242.3	179.5	141.7	107.7	87.9	78.9	78.9
50°	7916.8	3447.0	324.8	265.6	215.3	154.3	114.9	87.9	68.2	61.0	59.2
52.5°	9040.0	3927.8	288.9	240.5	184.8	131.0	93.3	68.2	52.1	46.7	44.9
55°	10279.9	4398.0	254.8	215.3	150.7	109.5	73.6	53.8	37.7	32.3	32.3
57.5°	11530.6	4859.1	213.5	179.5	118.4	80.7	57.4	39.5	25.1	19.7	19.7
60°	12589.3	5008.1	181.3	145.3	89.7	57.4	41.3	25.1	14.3	9.0	9.0
62.5°	12734.6	4505.7	152.5	111.3	64.6	39.5	21.5	14.3	5.4	3.6	3.6
65°	11945.1	3660.5	127.4	84.3	43.1	19.7	9.0	5.4	1.8	0.0	0.0
67°	10703.5	2967.9	104.1	62.8	30.5	12.5	5.4	1.8	0.0	0.0	0.0
67.5°	10385.8	2829.8	100.5	59.2	26.9	10.7	3.6	1.8	0.0	0.0	0.0
70°	8150.0	2119.2	71.8	35.9	16.1	7.2	0.0	0.0	0.0	0.0	0.0
72.5°	5065.5	1198.6	52.1	21.5	10.7	3.6	0.0	0.0	0.0	0.0	0.0
75°	1914.6	419.8	35.9	14.3	7.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	595.7	159.7	21.5	10.7	3.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	201.0	61.0	14.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	123.8	25.1	9.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	77.1	10.7	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.3	3.6	1.8	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)