

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: P459449

Luminaire Tested: **GALN-SA9A-735-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459449
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-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 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: 31947 lumens
Efficiency: N/A
Efficacy: 116.6 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

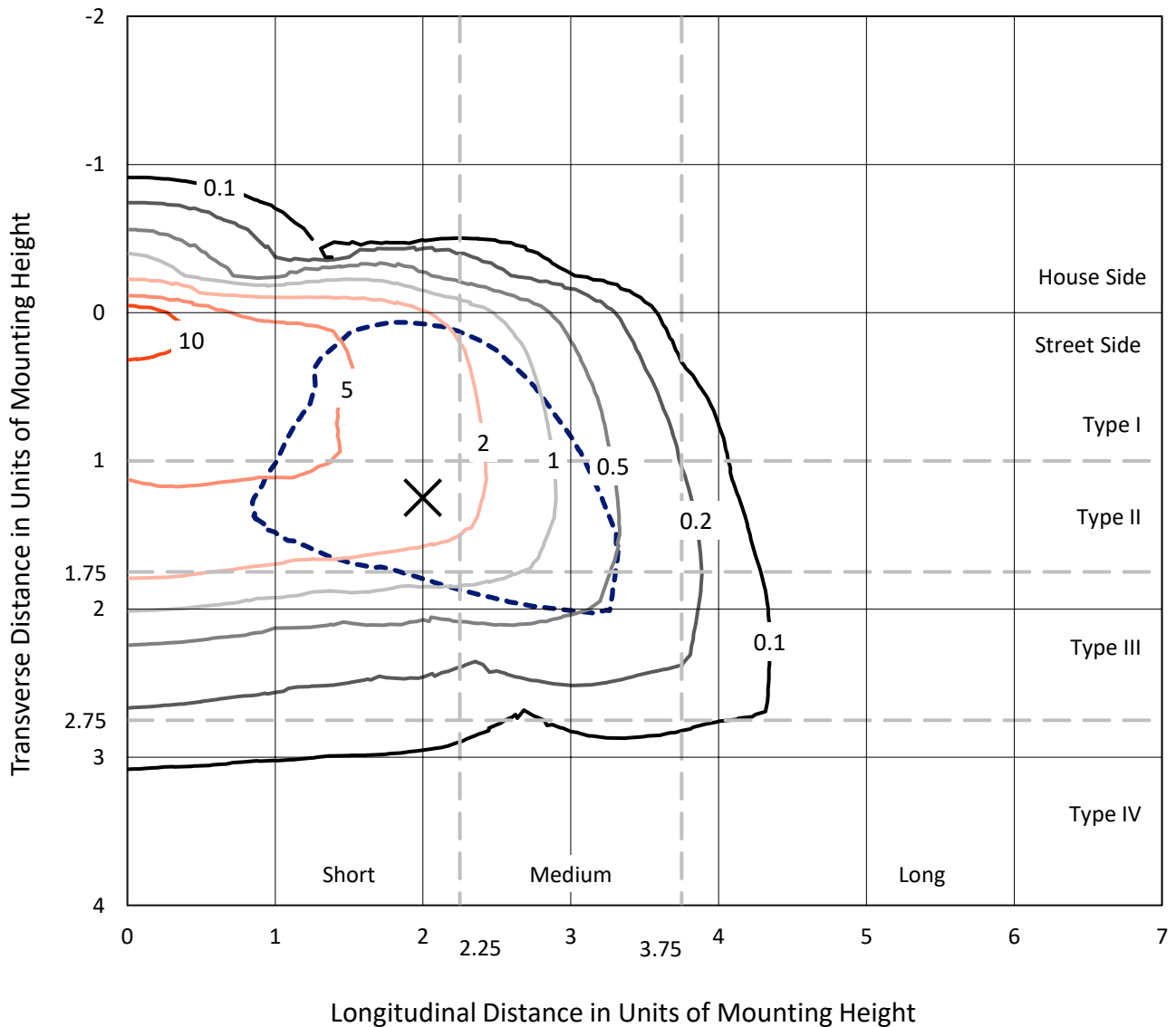
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

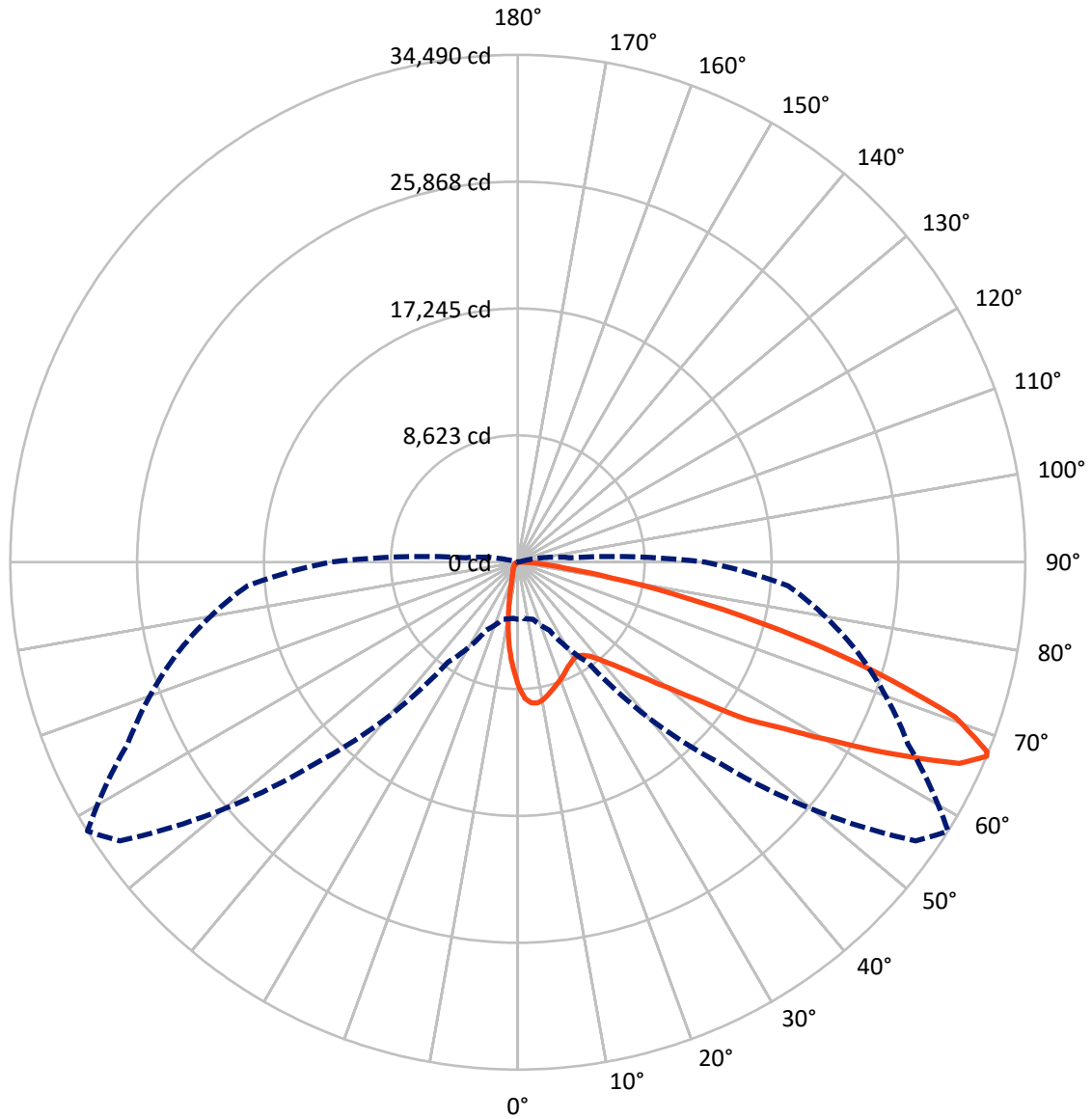
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 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	2305.5	0.0	2305.5
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	29641.5	0.0	29641.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	31947.0	0.0	31947.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	687.2	2.2
10°-20°	1484.2	4.6
20°-30°	2011.3	6.3
30°-40°	2789.5	8.7
40°-50°	4448.9	13.9
50°-60°	7690.3	24.1
60°-70°	8784.8	27.5
70°-80°	3662.4	11.5
80°-90°	388.3	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°	31947.0	100.0
0°-180°	31947.0	100.0



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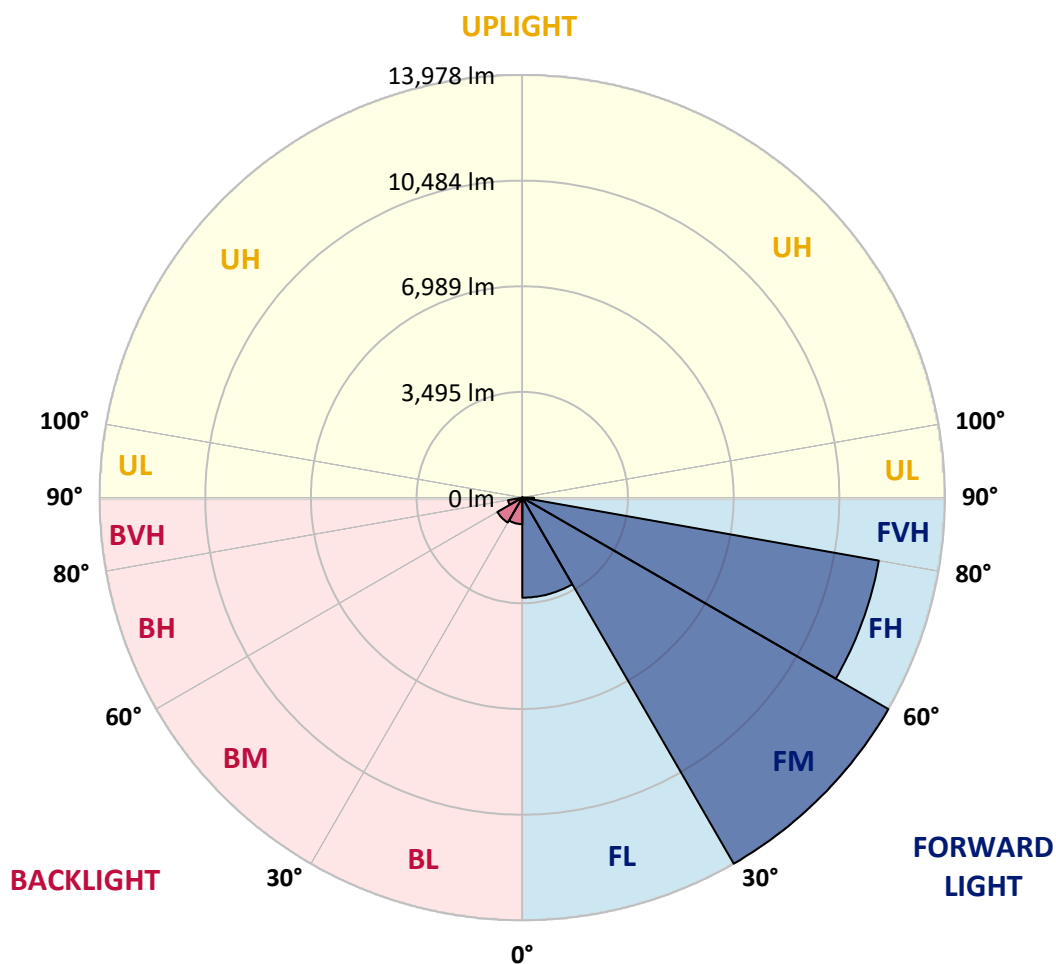
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3307.3	10.4			
FM (30°-60°)	13978.1	43.8			
FH (60°-80°)	11970.6	37.5			G4/12000
FVH (80°-90°)	385.5	1.2			G3/500
BL (0°-30°)	875.4	2.7	B2/1000		
BM (30°-60°)	950.6	3.0	B1/1000		
BH (60°-80°)	476.6	1.5	B1/500		G1/500
BVH (80°-90°)	2.8	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°	8468.9	8468.9	8468.9	8468.9	8468.9	8468.9	8468.9	8468.9	8468.9	8468.9	8468.9
2.5°	9828.7	9843.7	9788.2	9743.3	9628.1	9504.2	9339.9	9252.3	9102.9	8844.6	8558.5
5°	10059.3	10078.5	10070.0	10059.3	10014.5	9894.9	9685.7	9608.9	9389.0	8968.4	8451.8
7.5°	9546.9	9617.4	9625.9	9709.2	9788.2	9798.9	9719.9	9662.2	9459.4	8966.3	8261.8
10°	8868.1	8915.0	8983.3	9079.4	9269.4	9427.4	9504.2	9495.7	9378.3	8900.1	8039.8
12.5°	8182.8	8208.4	8313.0	8477.4	8710.1	8979.1	9184.0	9224.6	9226.7	8821.1	7854.0
15°	7593.6	7582.9	7664.0	7854.0	8180.7	8518.0	8885.1	8949.2	9051.7	8744.2	7681.1
17.5°	7089.8	7145.3	7158.1	7367.3	7668.3	8105.9	8573.5	8686.6	8891.6	8678.1	7538.1
20°	6778.1	6808.0	6835.7	6953.1	7224.3	7685.4	8281.0	8436.8	8742.1	8618.3	7378.0
22.5°	6686.3	6705.5	6682.0	6718.3	6910.4	7320.3	7962.9	8170.0	8599.1	8562.8	7247.7
25°	6756.7	6775.9	6720.4	6677.7	6743.9	7023.6	7655.5	7907.4	8483.8	8552.1	7149.5
27.5°	6927.5	6963.8	6886.9	6810.1	6771.7	6863.5	7414.3	7706.7	8404.8	8603.4	7104.7
30°	7194.4	7215.7	7158.1	7064.1	6976.6	6884.8	7288.3	7568.0	8383.5	8722.9	7100.4
32.5°	7484.7	7529.5	7497.5	7435.6	7322.5	7104.7	7324.6	7572.2	8434.7	8895.8	7153.8
35°	7843.4	7894.6	7924.5	7911.7	7766.5	7495.4	7555.2	7764.4	8571.3	9213.9	7299.0
37.5°	8195.6	8240.4	8409.1	8466.7	8338.6	8082.5	8003.5	8142.2	8872.3	9630.2	7561.6
40°	8599.1	8658.9	8895.8	9115.7	9053.8	8784.8	8639.6	8754.9	9333.5	10257.8	8059.0
42.5°	8985.5	9092.2	9453.0	9841.5	9899.2	9598.2	9502.1	9540.5	10016.6	11160.9	8752.8
45°	9534.1	9634.5	10099.9	10627.2	10898.3	10663.5	10565.3	10558.9	10953.8	12431.1	9877.8
47.5°	10326.2	10415.8	10964.5	11485.4	11967.8	11999.9	11814.1	11878.2	12132.2	13916.9	11256.9
50°	11297.5	11508.8	11869.6	12411.9	13056.6	13577.5	13635.1	13549.7	13767.5	15637.6	12913.6
52.5°	12708.6	12789.7	13120.6	13566.8	14322.6	15206.4	15891.6	15774.2	15705.9	17277.2	14587.3
55°	13761.1	13870.0	14384.5	14997.2	16105.1	17270.7	18756.6	18797.1	17934.7	18852.7	16224.7
57.5°	13443.0	13609.5	14388.7	15620.5	18056.4	20186.9	21292.8	21320.5	19996.9	20383.3	18073.4
60°	11809.9	11888.8	13005.4	14649.2	18222.9	23346.5	24889.9	24665.8	22095.5	22095.5	19706.6
62.5°	8374.9	8498.7	9403.9	11822.7	16457.4	24443.8	29198.0	28734.8	24986.0	23732.9	20680.1
65°	5352.0	5232.5	5832.3	7463.4	12260.3	22823.4	32948.9	32976.7	27705.8	24388.3	20148.5
67°	3876.8	3829.9	4002.8	5102.2	8313.0	19185.7	33027.9	34490.3	29268.5	23974.1	18449.2
67.5°	3545.9	3582.2	3708.2	4602.7	7553.0	17458.6	32669.2	34400.6	29620.7	23724.3	17834.3
70°	2687.7	2625.8	2762.5	3255.6	4528.0	11013.6	28102.9	31550.6	29183.1	21245.8	14250.0
72.5°	1976.8	1970.4	2160.4	2662.1	3486.2	5866.5	21096.4	25297.7	23841.7	16177.7	8972.7
75°	1334.3	1394.0	1697.2	2224.5	3159.5	3804.3	14382.3	18353.1	16551.3	9186.2	3667.6
77.5°	760.0	764.3	1093.0	1786.8	2837.2	3061.3	8522.2	11692.4	8761.3	3054.9	1088.8
80°	328.8	360.8	542.2	1298.0	2352.6	2711.2	4886.6	6425.8	3543.8	646.9	352.2
82.5°	121.7	143.0	239.1	798.4	1716.4	2233.0	2952.5	3067.7	1201.9	228.4	219.9
85°	0.0	4.3	87.5	373.6	894.5	997.0	1972.6	1818.9	531.6	108.9	143.0
87.5°	0.0	0.0	0.0	38.4	117.4	371.5	612.7	683.1	128.1	38.4	34.2
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°	8468.9	8468.9	8468.9	8468.9	8468.9	8468.9	8468.9	8468.9	8468.9	8468.9	8468.9
2.5°	8404.8	8266.0	7918.1	7570.1	7311.8	7096.2	6771.7	6594.5	6500.5	6361.8	6370.3
5°	8193.5	7911.7	7299.0	6664.9	6152.6	5653.0	5055.3	4814.0	4611.2	4495.9	4419.1
7.5°	7879.6	7463.4	6556.1	5710.7	4922.9	4049.8	3394.4	2956.7	2662.1	2553.3	2448.6
10°	7535.9	6983.0	5802.5	4630.4	3537.4	2636.5	2081.5	1680.1	1537.1	1404.7	1417.5
12.5°	7217.8	6545.4	5110.8	3654.8	2478.5	1675.8	1306.5	1142.1	1095.2	1080.2	1080.2
15°	6957.4	6127.0	4367.9	2747.5	1699.3	1204.0	1046.1	1001.2	984.2	979.9	979.9
17.5°	6679.9	5729.9	3697.5	2030.2	1236.1	1007.6	954.3	924.4	918.0	913.7	913.7
20°	6432.2	5330.7	3061.3	1511.5	999.1	907.3	873.1	853.9	847.5	843.3	845.4
22.5°	6197.4	4976.3	2463.6	1142.1	879.5	826.2	792.0	772.8	760.0	749.3	751.5
25°	5988.2	4634.7	1981.1	935.1	792.0	745.1	710.9	683.1	655.4	642.6	640.4
27.5°	5840.9	4335.8	1543.5	800.6	713.0	661.8	619.1	584.9	548.7	529.4	525.2
30°	5719.2	4032.7	1221.1	706.6	634.0	584.9	531.6	482.5	444.0	424.8	416.3
32.5°	5640.2	3744.5	962.8	629.8	567.9	508.1	448.3	399.2	356.5	337.3	333.0
35°	5627.4	3503.3	787.8	565.7	508.1	444.0	382.1	328.8	292.5	273.3	269.0
37.5°	5719.2	3317.5	659.7	514.5	459.0	388.5	320.2	271.1	239.1	224.2	222.0
40°	5964.7	3200.1	572.1	471.8	414.2	337.3	273.3	230.6	198.5	183.6	183.6
42.5°	6432.2	3204.4	514.5	431.2	369.3	288.2	232.7	192.1	164.4	151.6	147.3
45°	7162.3	3349.5	465.4	390.7	326.6	249.8	198.5	158.0	130.2	119.6	119.6
47.5°	8140.1	3637.7	422.7	350.1	288.2	213.5	168.7	128.1	104.6	93.9	93.9
50°	9418.9	4101.0	386.4	316.0	256.2	183.6	136.6	104.6	81.1	72.6	70.4
52.5°	10755.3	4673.1	343.7	286.1	219.9	155.8	111.0	81.1	61.9	55.5	53.4
55°	12230.4	5232.5	303.1	256.2	179.3	130.2	87.5	64.0	44.8	38.4	38.4
57.5°	13718.4	5781.1	254.0	213.5	140.9	96.1	68.3	47.0	29.9	23.5	23.5
60°	14977.9	5958.3	215.6	172.9	106.7	68.3	49.1	29.9	17.1	10.7	10.7
62.5°	15150.9	5360.5	181.5	132.4	76.9	47.0	25.6	17.1	6.4	4.3	4.3
65°	14211.5	4355.0	151.6	100.3	51.2	23.5	10.7	6.4	2.1	0.0	0.0
67°	12734.2	3531.0	123.8	74.7	36.3	14.9	6.4	2.1	0.0	0.0	0.0
67.5°	12356.4	3366.6	119.6	70.4	32.0	12.8	4.3	2.1	0.0	0.0	0.0
70°	9696.4	2521.2	85.4	42.7	19.2	8.5	0.0	0.0	0.0	0.0	0.0
72.5°	6026.6	1426.1	61.9	25.6	12.8	4.3	0.0	0.0	0.0	0.0	0.0
75°	2277.9	499.5	42.7	17.1	8.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	708.8	190.0	25.6	12.8	4.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	239.1	72.6	17.1	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	147.3	29.9	10.7	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	91.8	12.8	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.1	4.3	2.1	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)