

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: P455998

Luminaire Tested: **GALN-SA7B-727-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455998
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-SA7B-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 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: 27418 lumens
Efficiency: N/A
Efficacy: 95.9 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

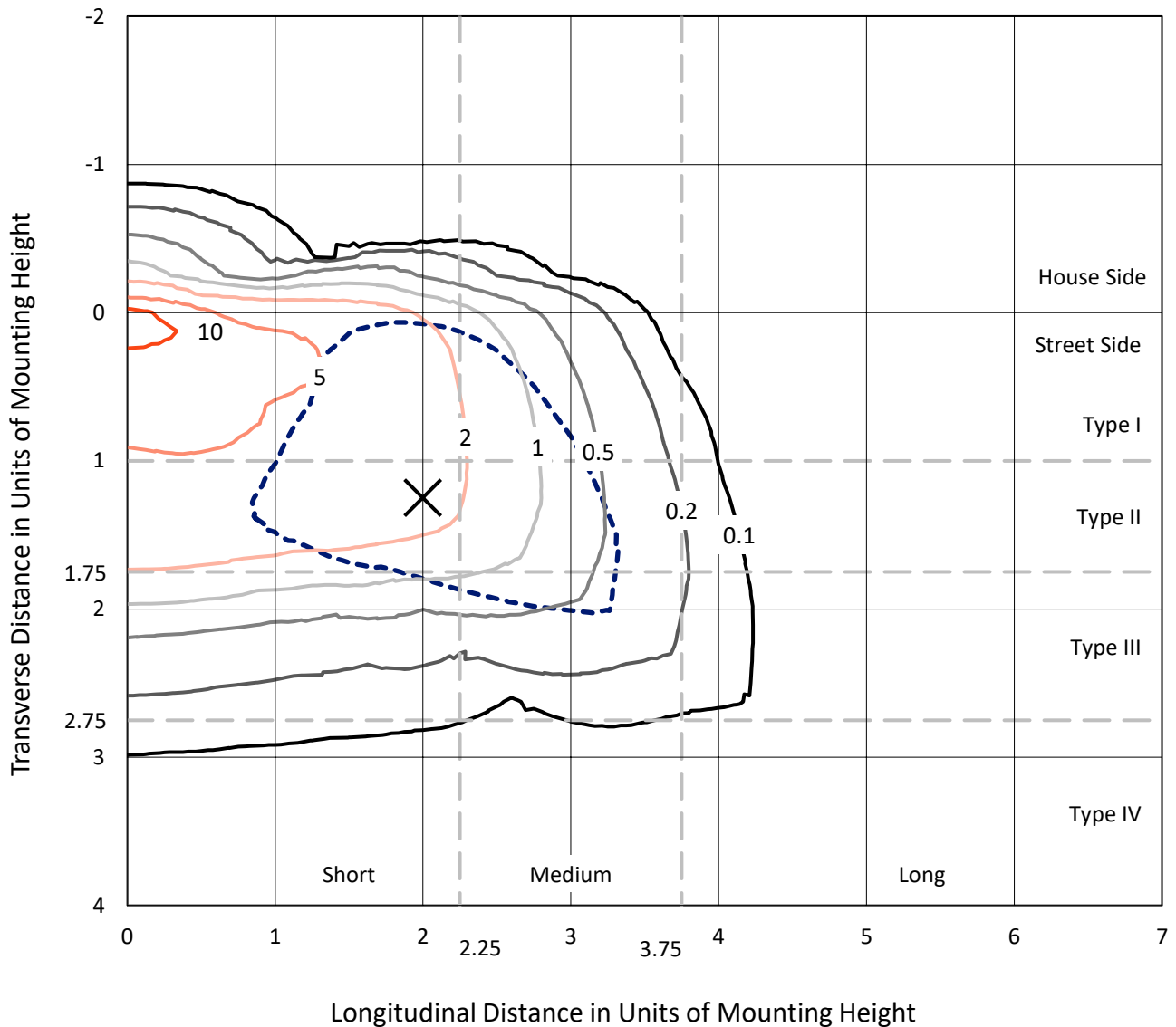
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

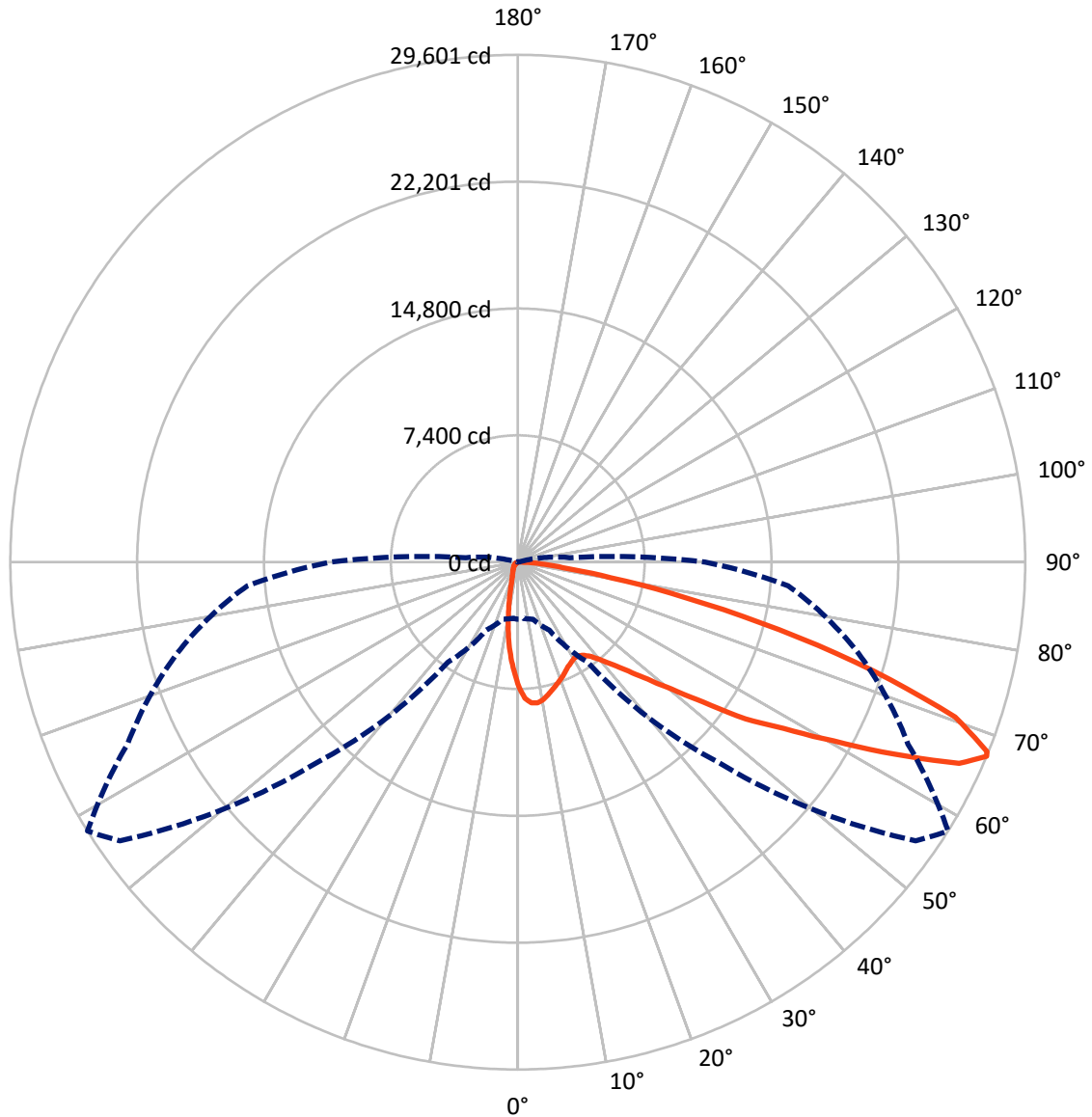
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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	1978.7	0.0	1978.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	25439.4	0.0	25439.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	27418.0	0.0	27418.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	589.8	2.2
10°-20°	1273.8	4.6
20°-30°	1726.1	6.3
30°-40°	2394.0	8.7
40°-50°	3818.2	13.9
50°-60°	6600.1	24.1
60°-70°	7539.4	27.5
70°-80°	3143.2	11.5
80°-90°	333.3	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°	27418.0	100.0
0°-180°	27418.0	100.0

Coefficient of Utilization



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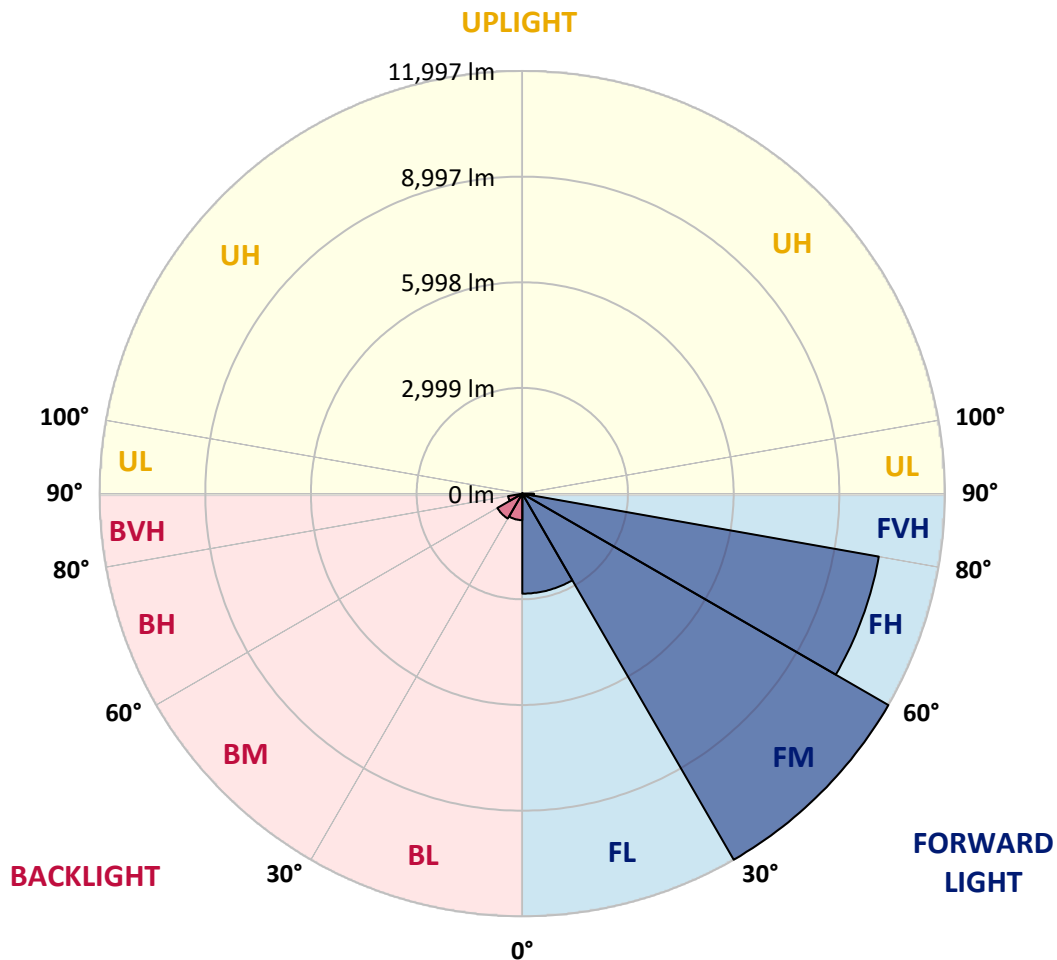
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2838.4	10.4			
FM	(30°-60°)	11996.5	43.8			
FH	(60°-80°)	10273.6	37.5			G4/12000
FVH	(80°-90°)	330.9	1.2			G3/500
BL	(0°-30°)	751.3	2.7	B2/1000		
BM	(30°-60°)	815.8	3.0	B1/1000		
BH	(60°-80°)	409.1	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°	7268.3	7268.3	7268.3	7268.3	7268.3	7268.3	7268.3	7268.3	7268.3	7268.3	7268.3
2.5°	8435.4	8448.2	8400.5	8362.1	8263.1	8156.9	8015.8	7940.7	7812.4	7590.7	7345.2
5°	8633.2	8649.7	8642.4	8633.2	8594.8	8492.2	8312.6	8246.6	8057.9	7697.0	7253.6
7.5°	8193.5	8254.0	8261.3	8332.8	8400.5	8409.7	8341.9	8292.4	8118.4	7695.2	7090.5
10°	7610.9	7651.2	7709.8	7792.3	7955.3	8090.9	8156.9	8149.5	8048.8	7638.4	6900.0
12.5°	7022.7	7044.7	7134.5	7275.6	7475.3	7706.2	7882.0	7916.9	7918.7	7570.6	6740.6
15°	6517.1	6507.9	6577.5	6740.6	7020.9	7310.4	7625.5	7680.5	7768.4	7504.6	6592.2
17.5°	6084.7	6132.3	6143.3	6322.9	6581.2	6956.8	7358.0	7455.1	7631.0	7447.8	6469.4
20°	5817.2	5842.8	5866.6	5967.4	6200.1	6595.8	7107.0	7240.8	7502.8	7396.5	6332.0
22.5°	5738.4	5754.9	5734.7	5765.9	5930.8	6282.5	6834.0	7011.8	7380.0	7348.9	6220.3
25°	5798.9	5815.3	5767.7	5731.1	5787.9	6027.9	6570.2	6786.4	7281.1	7339.7	6136.0
27.5°	5945.4	5976.6	5910.6	5844.7	5811.7	5890.5	6363.2	6614.2	7213.3	7383.7	6097.5
30°	6174.4	6192.8	6143.3	6062.7	5987.6	5908.8	6255.1	6495.1	7195.0	7486.3	6093.8
32.5°	6423.6	6462.1	6434.6	6381.5	6284.4	6097.5	6286.2	6498.7	7238.9	7634.7	6139.6
35°	6731.4	6775.4	6801.1	6790.1	6665.5	6432.8	6484.1	6663.6	7356.2	7907.7	6264.2
37.5°	7033.7	7072.2	7217.0	7266.4	7156.5	6936.6	6868.8	6987.9	7614.5	8265.0	6489.6
40°	7380.0	7431.3	7634.7	7823.4	7770.3	7539.4	7414.8	7513.8	8010.3	8803.6	6916.5
42.5°	7711.6	7803.3	8112.9	8446.4	8495.8	8237.5	8155.0	8188.0	8596.6	9578.6	7511.9
45°	8182.5	8268.6	8668.0	9120.6	9353.3	9151.7	9067.5	9062.0	9400.9	10668.8	8477.5
47.5°	8862.3	8939.2	9410.1	9857.1	10271.2	10298.7	10139.3	10194.3	10412.3	11944.0	9661.1
50°	9695.9	9877.3	10186.9	10652.3	11205.6	11652.7	11702.1	11628.8	11815.7	13420.7	11082.9
52.5°	10907.0	10976.6	11260.6	11643.5	12292.1	13050.6	13638.8	13538.0	13479.4	14827.8	12519.3
55°	11810.2	11903.7	12345.2	12871.1	13822.0	14822.3	16097.5	16132.3	15392.1	16180.0	13924.6
57.5°	11537.2	11680.2	12348.9	13406.1	15496.6	17325.1	18274.2	18298.0	17162.0	17493.7	15511.2
60°	10135.6	10203.4	11161.6	12572.4	15639.5	20036.7	21361.4	21169.0	18963.1	18963.1	16912.9
62.5°	7187.6	7293.9	8070.8	10146.6	14124.3	20978.5	25058.7	24661.1	21443.8	20368.4	17748.3
65°	4593.3	4490.7	5005.5	6405.3	10522.2	19587.8	28277.9	28301.7	23778.0	20930.8	17292.1
67°	3327.2	3286.9	3435.3	4378.9	7134.5	16465.8	28345.7	29600.7	25119.2	20575.4	15833.7
67.5°	3043.3	3074.4	3182.5	3950.2	6482.3	14983.6	28037.9	29523.8	25421.5	20361.0	15306.0
70°	2306.7	2253.6	2370.8	2794.1	3886.1	9452.2	24118.8	27077.8	25045.9	18233.9	12229.8
72.5°	1696.6	1691.1	1854.2	2284.7	2992.0	5034.8	18105.6	21711.3	20461.8	13884.3	7700.7
75°	1145.1	1196.4	1456.6	1909.1	2711.6	3264.9	12343.4	15751.3	14204.9	7883.9	3147.7
77.5°	652.3	655.9	938.1	1533.5	2435.0	2627.3	7314.1	10034.9	7519.3	2621.9	934.4
80°	282.2	309.6	465.4	1114.0	2019.1	2326.9	4193.9	5514.9	3041.4	555.2	302.3
82.5°	104.4	122.8	205.2	685.2	1473.1	1916.5	2533.9	2632.8	1031.5	196.0	188.7
85°	0.0	3.7	75.1	320.6	767.7	855.6	1692.9	1561.0	456.2	93.4	122.8
87.5°	0.0	0.0	0.0	33.0	100.8	318.8	525.8	586.3	109.9	33.0	29.3
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°	7268.3	7268.3	7268.3	7268.3	7268.3	7268.3	7268.3	7268.3	7268.3	7268.3	7268.3
2.5°	7213.3	7094.2	6795.6	6496.9	6275.2	6090.2	5811.7	5659.6	5579.0	5459.9	5467.2
5°	7031.9	6790.1	6264.2	5720.1	5280.3	4851.6	4338.6	4131.6	3957.5	3858.6	3792.6
7.5°	6762.6	6405.3	5626.6	4901.1	4225.0	3475.6	2913.2	2537.6	2284.7	2191.3	2101.5
10°	6467.6	5993.1	4979.9	3974.0	3035.9	2262.7	1786.4	1441.9	1319.2	1205.6	1216.6
12.5°	6194.6	5617.5	4386.2	3136.7	2127.2	1438.3	1121.3	980.2	939.9	927.1	927.1
15°	5971.1	5258.4	3748.6	2358.0	1458.4	1033.3	897.8	859.3	844.6	841.0	841.0
17.5°	5732.9	4917.6	3173.3	1742.4	1060.8	864.8	819.0	793.3	787.8	784.2	784.2
20°	5520.4	4575.0	2627.3	1297.2	857.5	778.7	749.4	732.9	727.4	723.7	725.5
22.5°	5318.8	4270.8	2114.3	980.2	754.9	709.1	679.7	663.2	652.3	643.1	644.9
25°	5139.3	3977.7	1700.3	802.5	679.7	639.4	610.1	586.3	562.5	551.5	549.7
27.5°	5012.8	3721.2	1324.7	687.1	611.9	568.0	531.3	502.0	470.9	454.4	450.7
30°	4908.4	3461.0	1048.0	606.5	544.2	502.0	456.2	414.1	381.1	364.6	357.3
32.5°	4840.6	3213.6	826.3	540.5	487.4	436.1	384.8	342.6	306.0	289.5	285.8
35°	4829.6	3006.6	676.1	485.5	436.1	381.1	328.0	282.2	251.0	234.5	230.9
37.5°	4908.4	2847.2	566.1	441.6	393.9	333.5	274.8	232.7	205.2	192.4	190.5
40°	5119.1	2746.4	491.0	404.9	355.4	289.5	234.5	197.9	170.4	157.6	157.6
42.5°	5520.4	2750.1	441.6	370.1	317.0	247.3	199.7	164.9	141.1	130.1	126.4
45°	6147.0	2874.7	399.4	335.3	280.3	214.4	170.4	135.6	111.8	102.6	102.6
47.5°	6986.1	3122.0	362.8	300.5	247.3	183.2	144.7	109.9	89.8	80.6	80.6
50°	8083.6	3519.6	331.6	271.2	219.9	157.6	117.3	89.8	69.6	62.3	60.5
52.5°	9230.5	4010.6	295.0	245.5	188.7	133.7	95.3	69.6	53.1	47.6	45.8
55°	10496.6	4490.7	260.2	219.9	153.9	111.8	75.1	55.0	38.5	33.0	33.0
57.5°	11773.6	4961.5	218.0	183.2	120.9	82.4	58.6	40.3	25.7	20.2	20.2
60°	12854.6	5113.6	185.1	148.4	91.6	58.6	42.1	25.7	14.7	9.2	9.2
62.5°	13003.0	4600.6	155.7	113.6	66.0	40.3	22.0	14.7	5.5	3.7	3.7
65°	12196.8	3737.6	130.1	86.1	44.0	20.2	9.2	5.5	1.8	0.0	0.0
67°	10929.0	3030.4	106.3	64.1	31.1	12.8	5.5	1.8	0.0	0.0	0.0
67.5°	10604.7	2889.3	102.6	60.5	27.5	11.0	3.7	1.8	0.0	0.0	0.0
70°	8321.8	2163.8	73.3	36.6	16.5	7.3	0.0	0.0	0.0	0.0	0.0
72.5°	5172.2	1223.9	53.1	22.0	11.0	3.7	0.0	0.0	0.0	0.0	0.0
75°	1954.9	428.7	36.6	14.7	7.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	608.3	163.1	22.0	11.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	205.2	62.3	14.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	126.4	25.7	9.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	78.8	11.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.7	3.7	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)