

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: P453736

Luminaire Tested: **GALN-SA4D-740-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453736
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-SA4D-740-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA 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: 25315 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

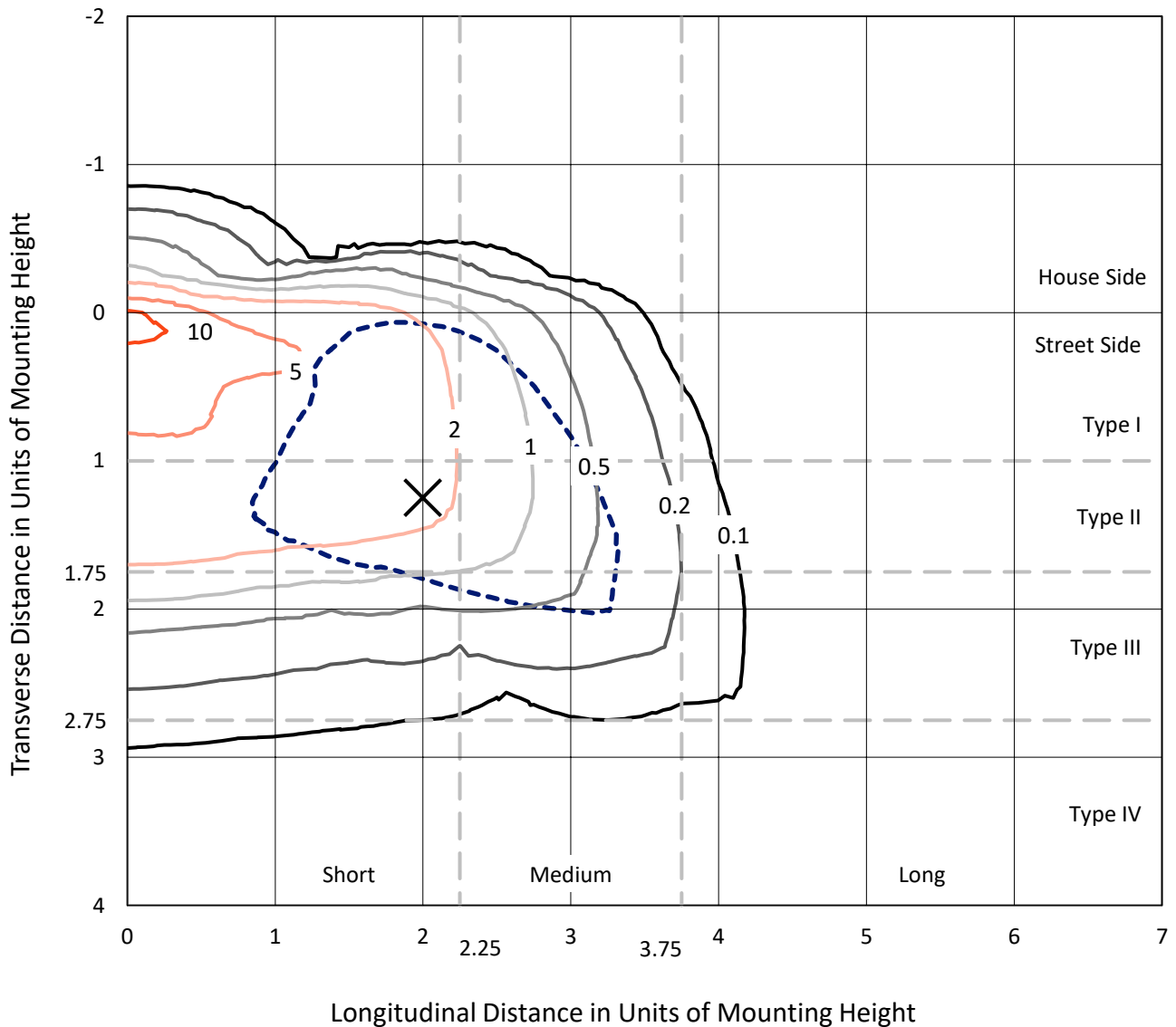
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

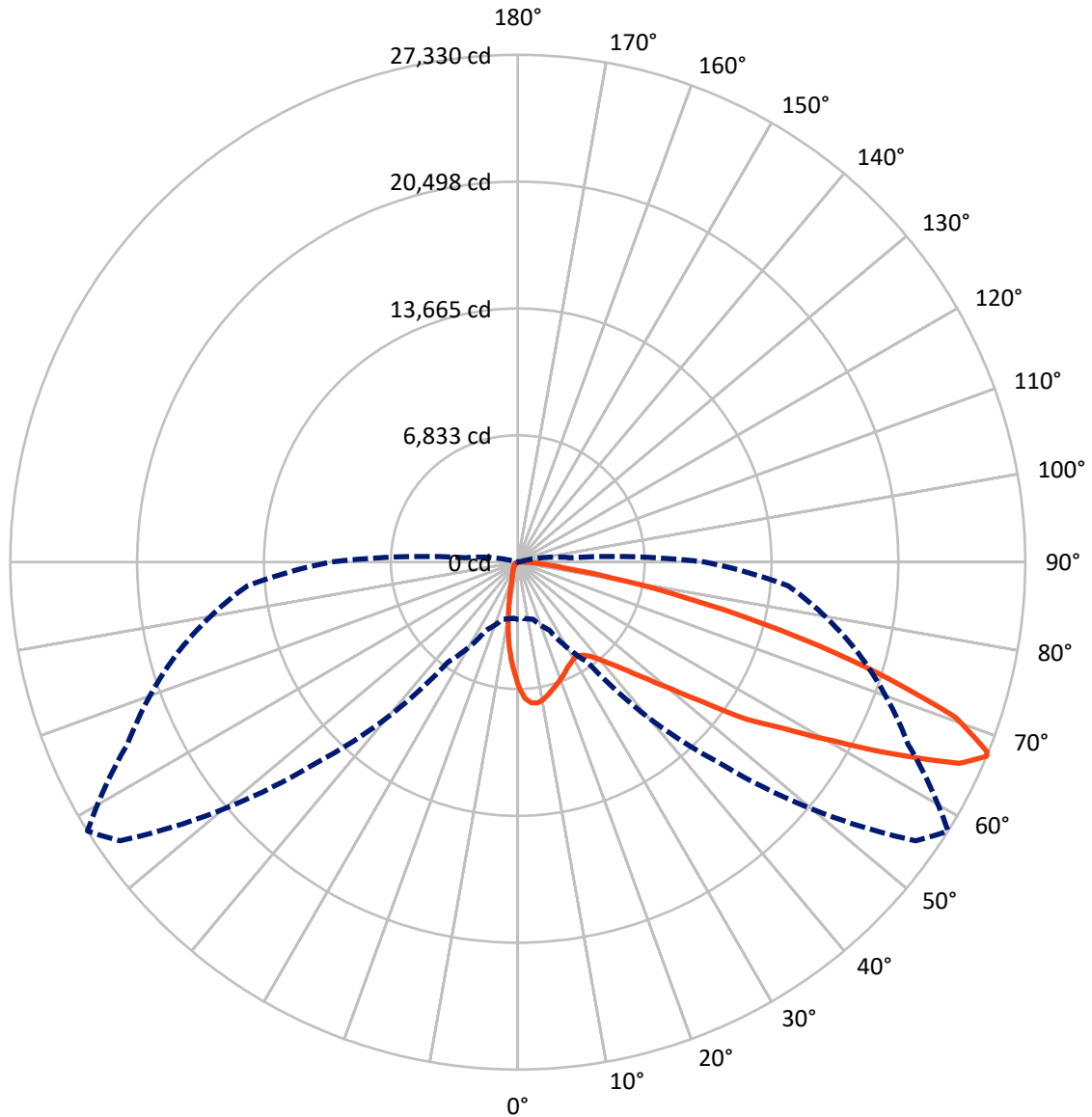
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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	1826.9	0.0	1826.9
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	23488.1	0.0	23488.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	25315.0	0.0	25315.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.6	2.2
10°-20°	1176.1	4.6
20°-30°	1593.7	6.3
30°-40°	2210.4	8.7
40°-50°	3525.4	13.9
50°-60°	6093.9	24.1
60°-70°	6961.1	27.5
70°-80°	2902.1	11.5
80°-90°	307.7	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°	25315.0	100.0
0°-180°	25315.0	100.0

Coefficient of Utilization



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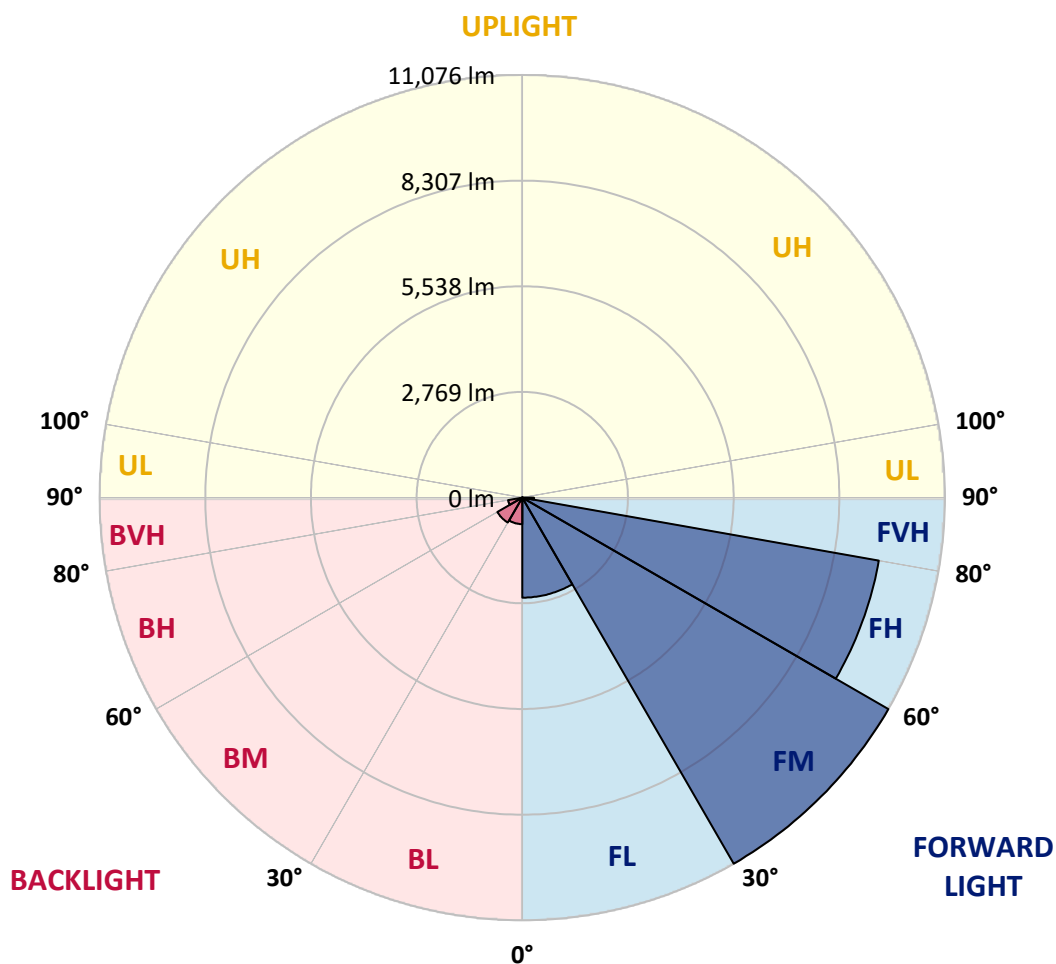
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2620.7	10.4			
FM	(30°-60°)	11076.4	43.8			
FH	(60°-80°)	9485.6	37.5			G4/12000
FVH	(80°-90°)	305.5	1.2			G3/500
BL	(0°-30°)	693.7	2.7	B2/1000		
BM	(30°-60°)	753.3	3.0	B1/1000		
BH	(60°-80°)	377.7	1.5	B1/500		G1/500
BVH	(80°-90°)	2.2	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°	6710.8	6710.8	6710.8	6710.8	6710.8	6710.8	6710.8	6710.8	6710.8	6710.8	6710.8
2.5°	7788.4	7800.2	7756.2	7720.7	7629.3	7531.2	7401.0	7331.6	7213.2	7008.5	6781.8
5°	7971.1	7986.3	7979.5	7971.1	7935.5	7840.8	7675.0	7614.1	7439.9	7106.6	6697.2
7.5°	7565.1	7620.9	7627.6	7693.6	7756.2	7764.7	7702.1	7656.4	7495.7	7104.9	6546.7
10°	7027.1	7064.3	7118.5	7194.6	7345.1	7470.3	7531.2	7524.5	7431.4	7052.5	6370.8
12.5°	6484.1	6504.4	6587.3	6717.5	6901.9	7115.1	7277.5	7309.6	7311.3	6989.9	6223.6
15°	6017.2	6008.7	6073.0	6223.6	6482.4	6749.7	7040.6	7091.4	7172.6	6929.0	6086.6
17.5°	5618.0	5662.0	5672.1	5837.9	6076.4	6423.2	6793.7	6883.3	7045.7	6876.6	5973.2
20°	5371.0	5394.7	5416.7	5509.7	5724.5	6089.9	6561.9	6685.4	6927.3	6829.2	5846.3
22.5°	5298.2	5313.5	5294.9	5323.6	5475.9	5800.7	6309.9	6473.9	6814.0	6785.2	5743.2
25°	5354.1	5369.3	5325.3	5291.5	5343.9	5565.5	6066.3	6265.9	6722.6	6776.7	5665.3
27.5°	5489.4	5518.2	5457.3	5396.4	5365.9	5438.7	5875.1	6106.9	6660.0	6817.3	5629.8
30°	5700.9	5717.8	5672.1	5597.7	5528.3	5455.6	5775.3	5996.9	6643.1	6912.1	5626.4
32.5°	5930.9	5966.4	5941.1	5892.0	5802.4	5629.8	5804.0	6000.3	6683.7	7049.1	5668.7
35°	6215.1	6255.7	6279.4	6269.3	6154.2	5939.4	5986.7	6152.5	6792.0	7301.2	5783.8
37.5°	6494.2	6529.8	6663.4	6709.1	6607.6	6404.6	6342.0	6452.0	7030.5	7631.0	5991.8
40°	6814.0	6861.3	7049.1	7223.3	7174.3	6961.1	6846.1	6937.5	7395.9	8128.4	6386.0
42.5°	7120.2	7204.7	7490.6	7798.5	7844.2	7605.7	7529.5	7560.0	7937.2	8843.9	6935.8
45°	7554.9	7634.4	8003.2	8421.0	8635.9	8449.8	8372.0	8366.9	8679.9	9850.5	7827.3
47.5°	8182.5	8253.6	8688.3	9101.1	9483.4	9508.8	9361.6	9412.3	9613.6	11027.9	8920.1
50°	8952.2	9119.7	9405.6	9835.3	10346.1	10758.9	10804.6	10736.9	10909.4	12391.3	10232.8
52.5°	10070.4	10134.7	10396.9	10750.4	11349.3	12049.6	12592.6	12499.6	12445.5	13690.5	11559.0
55°	10904.4	10990.6	11398.3	11883.8	12761.8	13685.4	14862.8	14895.0	14211.5	14939.0	12856.5
57.5°	10652.3	10784.3	11401.7	12377.8	14308.0	15996.2	16872.5	16894.5	15845.7	16151.9	14321.5
60°	9358.2	9420.8	10305.5	11608.1	14439.9	18499.9	19722.9	19545.3	17508.6	17508.6	15615.6
62.5°	6636.3	6734.5	7451.7	9368.4	13040.9	19369.4	23136.7	22769.6	19799.1	18806.1	16387.0
65°	4241.0	4146.2	4621.6	5914.0	9715.1	18085.4	26108.9	26130.9	21954.2	19325.4	15965.8
67°	3072.0	3034.8	3171.8	4043.0	6587.3	15202.9	26171.5	27330.3	23192.5	18997.2	14619.2
67.5°	2809.8	2838.6	2938.4	3647.2	5985.1	13834.3	25887.3	27259.2	23471.6	18799.3	14132.0
70°	2129.8	2080.7	2189.0	2579.8	3588.0	8727.2	22268.9	25000.9	23124.9	16835.3	11291.8
72.5°	1566.5	1561.4	1711.9	2109.5	2762.5	4648.7	16716.9	20046.0	18892.3	12819.3	7110.0
75°	1057.3	1104.6	1344.9	1762.7	2503.6	3014.5	11396.6	14543.1	13115.4	7279.2	2906.3
77.5°	602.2	605.6	866.1	1415.9	2248.2	2425.8	6753.1	9265.2	6942.5	2420.8	862.7
80°	260.5	285.9	429.7	1028.5	1864.2	2148.4	3872.2	5091.9	2808.1	512.6	279.1
82.5°	96.4	113.3	189.5	632.7	1360.1	1769.5	2339.6	2430.9	952.4	181.0	174.2
85°	0.0	3.4	69.4	296.0	708.8	790.0	1563.1	1441.3	421.2	86.3	113.3
87.5°	0.0	0.0	0.0	30.4	93.0	294.3	485.5	541.3	101.5	30.4	27.1
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°	6710.8	6710.8	6710.8	6710.8	6710.8	6710.8	6710.8	6710.8	6710.8	6710.8	6710.8
2.5°	6660.0	6550.1	6274.3	5998.6	5793.9	5623.0	5365.9	5225.5	5151.1	5041.1	5047.9
5°	6492.6	6269.3	5783.8	5281.3	4875.3	4479.5	4005.8	3814.7	3654.0	3562.6	3501.7
7.5°	6243.9	5914.0	5195.1	4525.2	3900.9	3209.1	2689.7	2342.9	2109.5	2023.2	1940.3
10°	5971.5	5533.4	4597.9	3669.2	2803.1	2089.2	1649.4	1331.3	1218.0	1113.1	1123.3
12.5°	5719.5	5186.6	4049.8	2896.1	1964.0	1327.9	1035.3	905.0	867.8	856.0	856.0
15°	5513.1	4855.0	3461.1	2177.2	1346.6	954.1	828.9	793.4	779.9	776.5	776.5
17.5°	5293.2	4540.4	2929.9	1608.8	979.5	798.5	756.2	732.5	727.4	724.0	724.0
20°	5096.9	4224.0	2425.8	1197.7	791.7	719.0	691.9	676.7	671.6	668.2	669.9
22.5°	4910.9	3943.2	1952.2	905.0	697.0	654.7	627.6	612.4	602.2	593.8	595.5
25°	4745.1	3672.6	1569.9	740.9	627.6	590.4	563.3	541.3	519.3	509.2	507.5
27.5°	4628.4	3435.7	1223.1	634.4	565.0	524.4	490.6	463.5	434.8	419.5	416.1
30°	4531.9	3195.5	967.6	559.9	502.4	463.5	421.2	382.3	351.9	336.6	329.9
32.5°	4469.3	2967.2	762.9	499.0	450.0	402.6	355.2	316.3	282.5	267.3	263.9
35°	4459.2	2776.0	624.2	448.3	402.6	351.9	302.8	260.5	231.8	216.5	213.1
37.5°	4531.9	2628.8	522.7	407.7	363.7	307.9	253.7	214.8	189.5	177.6	175.9
40°	4726.5	2535.8	453.4	373.9	328.2	267.3	216.5	182.7	157.3	145.5	145.5
42.5°	5096.9	2539.2	407.7	341.7	292.7	228.4	184.4	152.2	130.3	120.1	116.7
45°	5675.5	2654.2	368.8	309.6	258.8	197.9	157.3	125.2	103.2	94.7	94.7
47.5°	6450.3	2882.6	334.9	277.4	228.4	169.2	133.6	101.5	82.9	74.4	74.4
50°	7463.6	3249.7	306.2	250.4	203.0	145.5	108.3	82.9	64.3	57.5	55.8
52.5°	8522.5	3703.0	272.4	226.7	174.2	123.5	88.0	64.3	49.1	44.0	42.3
55°	9691.5	4146.2	240.2	203.0	142.1	103.2	69.4	50.7	35.5	30.4	30.4
57.5°	10870.5	4581.0	201.3	169.2	111.6	76.1	54.1	37.2	23.7	18.6	18.6
60°	11868.6	4721.4	170.9	137.0	84.6	54.1	38.9	23.7	13.5	8.5	8.5
62.5°	12005.6	4247.7	143.8	104.9	60.9	37.2	20.3	13.5	5.1	3.4	3.4
65°	11261.3	3451.0	120.1	79.5	40.6	18.6	8.5	5.1	1.7	0.0	0.0
67°	10090.7	2798.0	98.1	59.2	28.8	11.8	5.1	1.7	0.0	0.0	0.0
67.5°	9791.3	2667.7	94.7	55.8	25.4	10.1	3.4	1.7	0.0	0.0	0.0
70°	7683.5	1997.8	67.7	33.8	15.2	6.8	0.0	0.0	0.0	0.0	0.0
72.5°	4775.5	1130.0	49.1	20.3	10.1	3.4	0.0	0.0	0.0	0.0	0.0
75°	1805.0	395.8	33.8	13.5	6.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	561.6	150.6	20.3	10.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	189.5	57.5	13.5	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	116.7	23.7	8.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	72.7	10.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.5	3.4	1.7	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)