

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: P454432

Luminaire Tested: **GALN-SA5C-740-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454432  
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-SA5C-740-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 1050mA 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: 29124 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

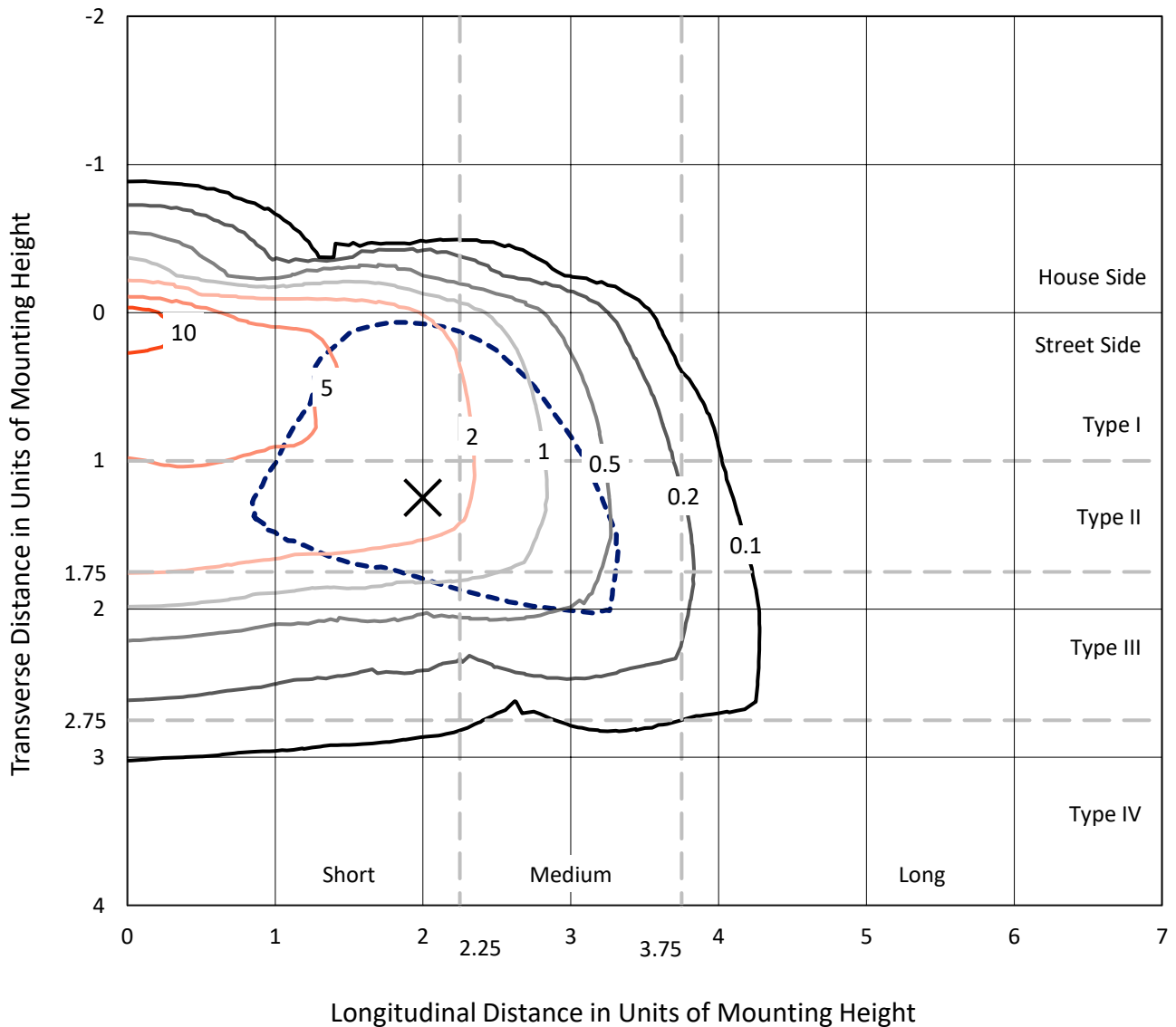
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

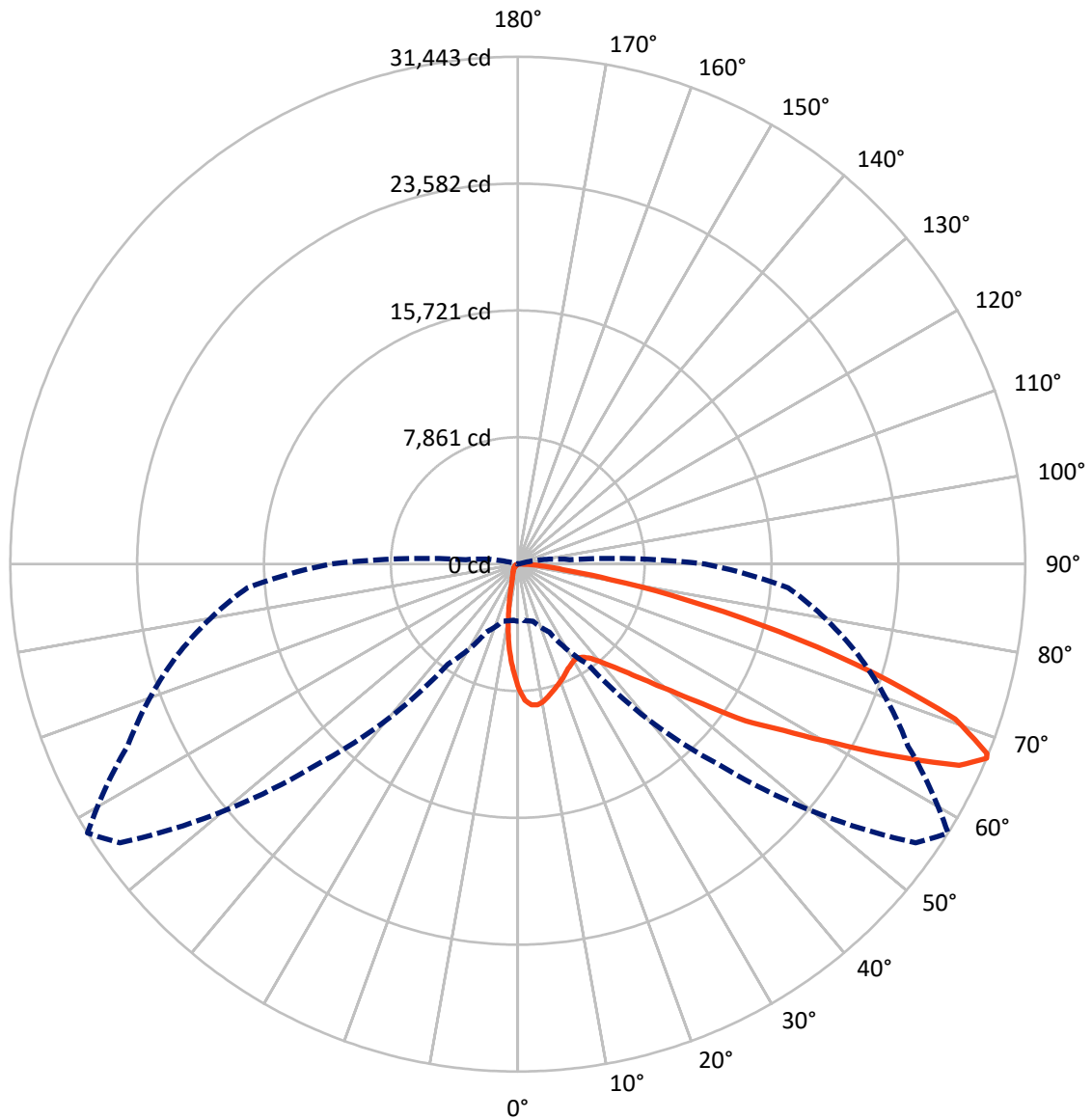
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 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
<b>House Side</b>	Lumens	2101.8	0.0	2101.8
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	27022.2	0.0	27022.2
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	29124.0	0.0	29124.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	626.5	2.2
10°-20°	1353.1	4.6
20°-30°	1833.5	6.3
30°-40°	2543.0	8.7
40°-50°	4055.8	13.9
50°-60°	7010.8	24.1
60°-70°	8008.5	27.5
70°-80°	3338.8	11.5
80°-90°	354.0	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°	29124.0	100.0
0°-180°	29124.0	100.0

**Coefficient of Utilization**



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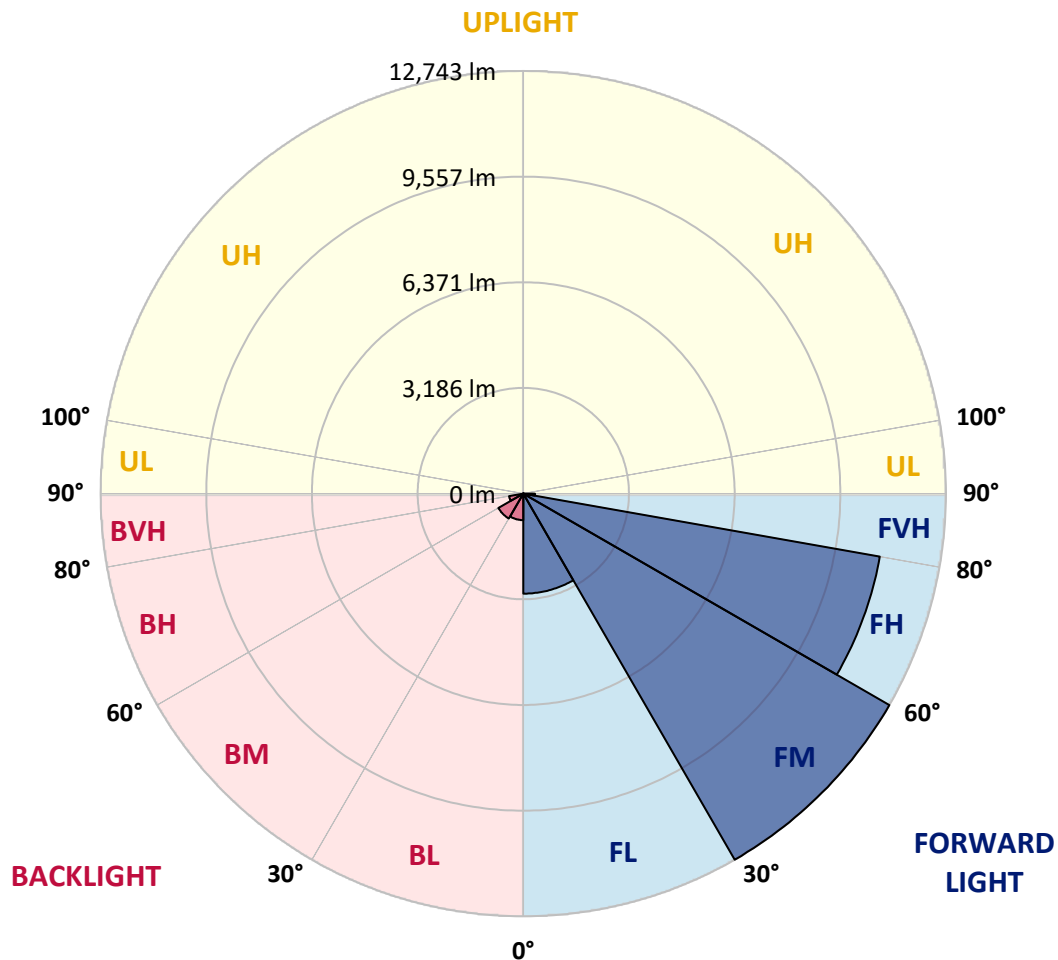
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3015.0	10.4			
FM (30°-60°)	12743.0	43.8			
FH (60°-80°)	10912.8	37.5			G4/12000
FVH (80°-90°)	351.4	1.2			G3/500
BL (0°-30°)	798.1	2.7	B2/1000		
BM (30°-60°)	866.6	3.0	B1/1000		
BH (60°-80°)	434.5	1.5	B1/500		G1/500
BVH (80°-90°)	2.6	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°	7720.5	7720.5	7720.5	7720.5	7720.5	7720.5	7720.5	7720.5	7720.5	7720.5	7720.5
2.5°	8960.2	8973.8	8923.2	8882.4	8777.3	8664.4	8514.5	8434.8	8298.5	8063.0	7802.2
5°	9170.4	9187.9	9180.1	9170.4	9129.5	9020.6	8829.8	8759.8	8559.3	8175.9	7704.9
7.5°	8703.3	8767.6	8775.3	8851.2	8923.2	8933.0	8861.0	8808.4	8623.5	8174.0	7531.7
10°	8084.4	8127.3	8189.5	8277.1	8450.3	8594.3	8664.4	8656.6	8549.6	8113.6	7329.3
12.5°	7459.7	7483.1	7578.4	7728.3	7940.4	8185.6	8372.5	8409.5	8411.4	8041.6	7160.0
15°	6922.6	6912.8	6986.8	7160.0	7457.8	7765.3	8100.0	8158.4	8251.8	7971.6	7002.4
17.5°	6463.3	6513.9	6525.5	6716.3	6990.7	7389.7	7815.9	7919.0	8105.8	7911.2	6872.0
20°	6179.1	6206.4	6231.7	6338.7	6585.9	7006.3	7549.2	7691.3	7969.6	7856.7	6726.0
22.5°	6095.4	6113.0	6091.6	6124.6	6299.8	6673.5	7259.3	7448.0	7839.2	7806.1	6607.3
25°	6159.7	6177.2	6126.6	6087.7	6148.0	6402.9	6979.0	7208.7	7734.1	7796.4	6517.8
27.5°	6315.4	6348.4	6278.4	6208.3	6173.3	6257.0	6759.1	7025.7	7662.1	7843.1	6476.9
30°	6558.6	6578.1	6525.5	6439.9	6360.1	6276.4	6644.3	6899.2	7642.7	7952.1	6473.0
32.5°	6823.3	6864.2	6835.0	6778.6	6675.4	6476.9	6677.4	6903.1	7689.4	8109.7	6521.7
35°	7150.3	7197.0	7224.2	7212.6	7080.2	6833.0	6887.5	7078.3	7813.9	8399.7	6654.0
37.5°	7471.4	7512.3	7666.0	7718.6	7601.8	7368.2	7296.2	7422.7	8088.3	8779.2	6893.4
40°	7839.2	7893.7	8109.7	8310.2	8253.8	8008.5	7876.2	7981.3	8508.7	9351.4	7346.8
42.5°	8191.5	8288.8	8617.7	8971.9	9024.4	8750.0	8662.5	8697.5	9131.5	10174.6	7979.3
45°	8691.6	8783.1	9207.4	9688.1	9935.3	9721.2	9631.7	9625.8	9985.9	11332.6	9005.0
47.5°	9413.7	9495.4	9995.6	10470.5	10910.3	10939.5	10770.2	10828.6	11060.2	12687.2	10262.2
50°	10299.2	10491.9	10820.8	11315.1	11902.9	12377.7	12430.3	12352.4	12550.9	14255.8	11772.5
52.5°	11585.6	11659.6	11961.2	12368.0	13056.9	13862.7	14487.4	14380.3	14318.1	15750.5	13298.3
55°	12545.1	12644.3	13113.4	13671.9	14682.0	15744.6	17099.2	17136.1	16349.9	17186.7	14791.0
57.5°	12255.1	12406.9	13117.3	14240.2	16460.8	18403.1	19411.2	19436.5	18229.9	18582.1	16476.4
60°	10766.3	10838.3	11856.1	13354.7	16612.6	21283.4	22690.5	22486.2	20143.0	20143.0	17965.2
62.5°	7634.9	7747.8	8572.9	10778.0	15003.1	22283.8	26617.9	26195.6	22778.1	21635.7	18852.7
65°	4879.1	4770.1	5317.0	6803.9	11176.9	20806.6	30037.4	30062.7	25257.6	22233.2	18368.1
67°	3534.3	3491.5	3649.1	4651.4	7578.4	17490.3	30109.4	31442.5	26682.2	21855.6	16818.9
67.5°	3232.6	3265.7	3380.5	4196.0	6885.6	15915.9	29782.4	31360.8	27003.3	21627.9	16258.4
70°	2450.2	2393.8	2518.4	2967.9	4127.9	10040.4	25619.5	28762.6	26604.3	19368.4	12990.8
72.5°	1802.2	1796.3	1969.5	2426.9	3178.1	5348.1	19232.2	23062.3	21735.0	14748.2	8179.8
75°	1216.4	1270.9	1547.2	2027.9	2880.3	3468.1	13111.4	16731.3	15088.8	8374.4	3343.5
77.5°	692.8	696.7	996.4	1629.0	2586.5	2790.8	7769.2	10659.2	7987.1	2785.0	992.6
80°	299.7	328.9	494.3	1183.3	2144.7	2471.7	4454.8	5858.0	3230.7	589.7	321.1
82.5°	110.9	130.4	218.0	727.9	1564.7	2035.7	2691.6	2796.7	1095.7	208.2	200.5
85°	0.0	3.9	79.8	340.6	815.5	908.9	1798.3	1658.1	484.6	99.3	130.4
87.5°	0.0	0.0	0.0	35.0	107.0	338.6	558.6	622.8	116.8	35.0	31.1
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°	7720.5	7720.5	7720.5	7720.5	7720.5	7720.5	7720.5	7720.5	7720.5	7720.5	7720.5
2.5°	7662.1	7535.6	7218.4	6901.2	6665.7	6469.1	6173.3	6011.8	5926.1	5799.6	5807.4
5°	7469.4	7212.6	6654.0	6076.0	5608.9	5153.5	4608.6	4388.6	4203.8	4098.7	4028.6
7.5°	7183.4	6803.9	5976.7	5206.0	4487.9	3691.9	3094.4	2695.5	2426.9	2327.6	2232.3
10°	6870.0	6366.0	5289.7	4221.3	3224.8	2403.5	1897.5	1531.6	1401.3	1280.6	1292.3
12.5°	6580.0	5967.0	4659.2	3331.9	2259.5	1527.8	1191.1	1041.2	998.4	984.8	984.8
15°	6342.6	5585.5	3981.9	2504.7	1549.2	1097.6	953.6	912.8	897.2	893.3	893.3
17.5°	6089.6	5223.6	3370.8	1850.8	1126.8	918.6	869.9	842.7	836.9	833.0	833.0
20°	5863.8	4859.6	2790.8	1377.9	910.8	827.1	796.0	778.5	772.6	768.7	770.7
22.5°	5649.8	4536.6	2245.9	1041.2	801.8	753.2	722.0	704.5	692.8	683.1	685.1
25°	5459.0	4225.2	1806.1	852.4	722.0	679.2	648.1	622.8	597.5	585.8	583.9
27.5°	5324.8	3952.7	1407.1	729.8	650.0	603.3	564.4	533.3	500.2	482.7	478.8
30°	5213.8	3676.3	1113.2	644.2	578.0	533.3	484.6	439.8	404.8	387.3	379.5
32.5°	5141.8	3413.6	877.7	574.1	517.7	463.2	408.7	363.9	325.0	307.5	303.6
35°	5130.1	3193.7	718.1	515.7	463.2	404.8	348.4	299.7	266.6	249.1	245.2
37.5°	5213.8	3024.4	601.4	469.0	418.4	354.2	291.9	247.2	218.0	204.3	202.4
40°	5437.6	2917.3	521.6	430.1	377.6	307.5	249.1	210.2	181.0	167.4	167.4
42.5°	5863.8	2921.2	469.0	393.1	336.7	262.7	212.1	175.2	149.9	138.2	134.3
45°	6529.4	3053.6	424.3	356.2	297.8	227.7	181.0	144.0	118.7	109.0	109.0
47.5°	7420.8	3316.3	385.3	319.2	262.7	194.6	153.7	116.8	95.4	85.6	85.6
50°	8586.6	3738.6	352.3	288.0	233.5	167.4	124.6	95.4	74.0	66.2	64.2
52.5°	9804.9	4260.2	313.3	260.8	200.5	142.1	101.2	74.0	56.4	50.6	48.7
55°	11149.7	4770.1	276.4	233.5	163.5	118.7	79.8	58.4	40.9	35.0	35.0
57.5°	12506.2	5270.3	231.6	194.6	128.4	87.6	62.3	42.8	27.2	21.4	21.4
60°	13654.4	5431.8	196.6	157.6	97.3	62.3	44.8	27.2	15.6	9.7	9.7
62.5°	13812.1	4886.9	165.4	120.7	70.1	42.8	23.4	15.6	5.8	3.9	3.9
65°	12955.7	3970.2	138.2	91.5	46.7	21.4	9.7	5.8	1.9	0.0	0.0
67°	11609.0	3219.0	112.9	68.1	33.1	13.6	5.8	1.9	0.0	0.0	0.0
67.5°	11264.5	3069.1	109.0	64.2	29.2	11.7	3.9	1.9	0.0	0.0	0.0
70°	8839.6	2298.4	77.8	38.9	17.5	7.8	0.0	0.0	0.0	0.0	0.0
72.5°	5494.1	1300.0	56.4	23.4	11.7	3.9	0.0	0.0	0.0	0.0	0.0
75°	2076.6	455.4	38.9	15.6	7.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	646.1	173.2	23.4	11.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	218.0	66.2	15.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	134.3	27.2	9.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	83.7	11.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.6	3.9	1.9	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)