

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: P455824

Luminaire Tested: **GALN-SA7A-740-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455824  
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-SA7A-740-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 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: 26349 lumens  
Efficiency: N/A  
Efficacy: 122.6 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

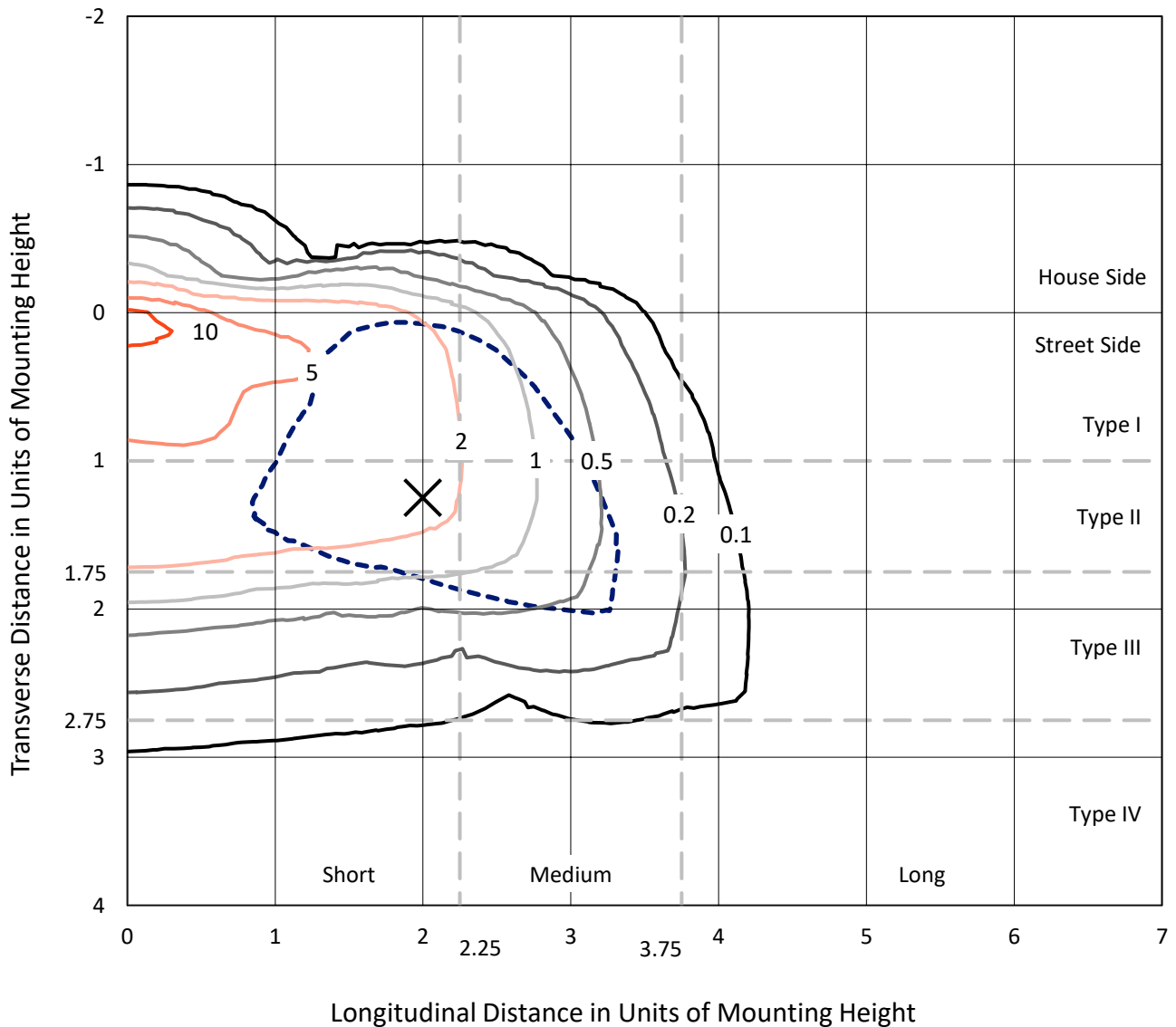
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

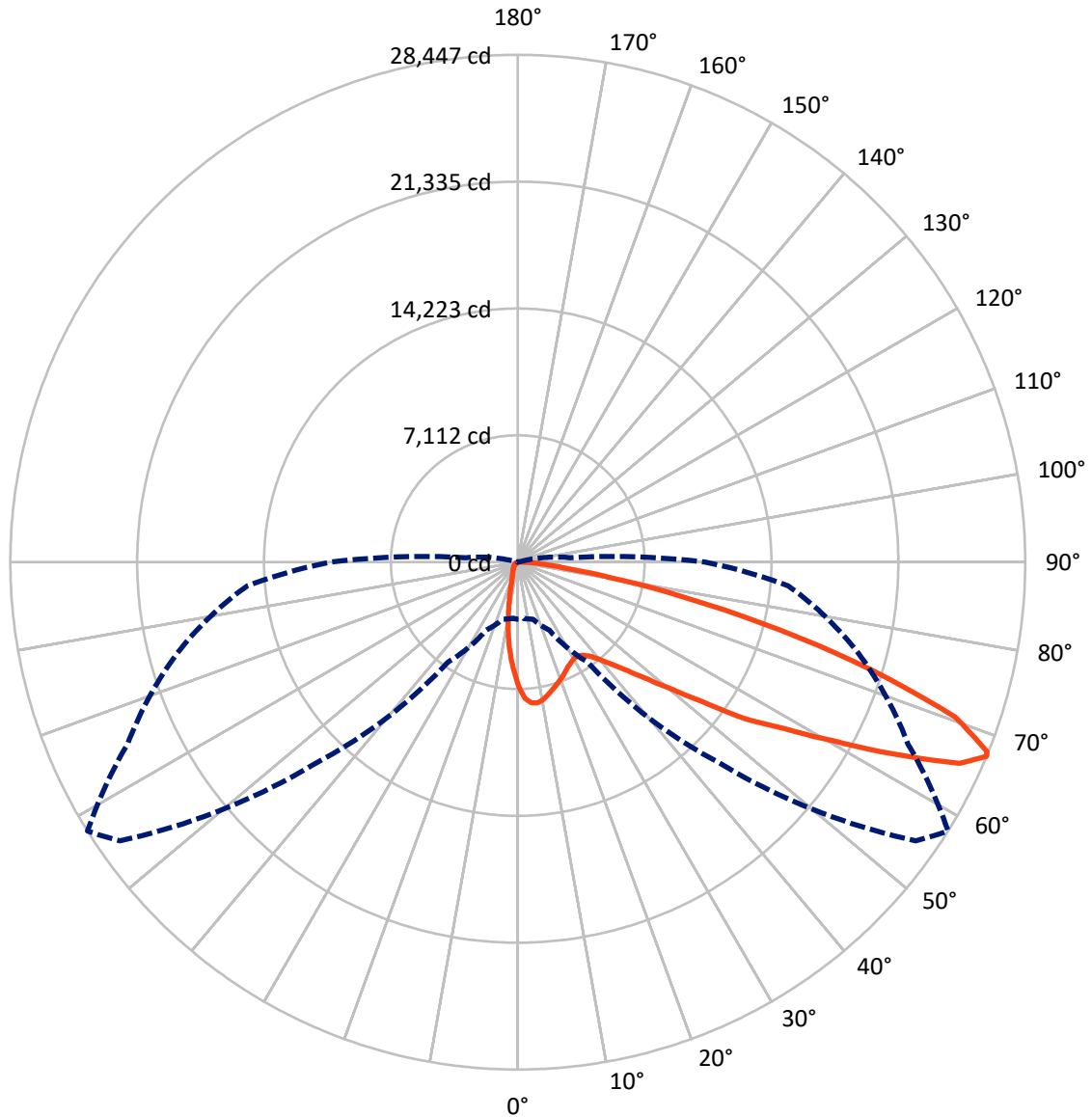
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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	1901.5	0.0	1901.5
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	24447.5	0.0	24447.5
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	26349.0	0.0	26349.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	566.8	2.2
10°-20°	1224.2	4.6
20°-30°	1658.8	6.3
30°-40°	2300.7	8.7
40°-50°	3669.3	13.9
50°-60°	6342.8	24.1
60°-70°	7245.4	27.5
70°-80°	3020.7	11.5
80°-90°	320.3	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°	26349.0	100.0
0°-180°	26349.0	100.0



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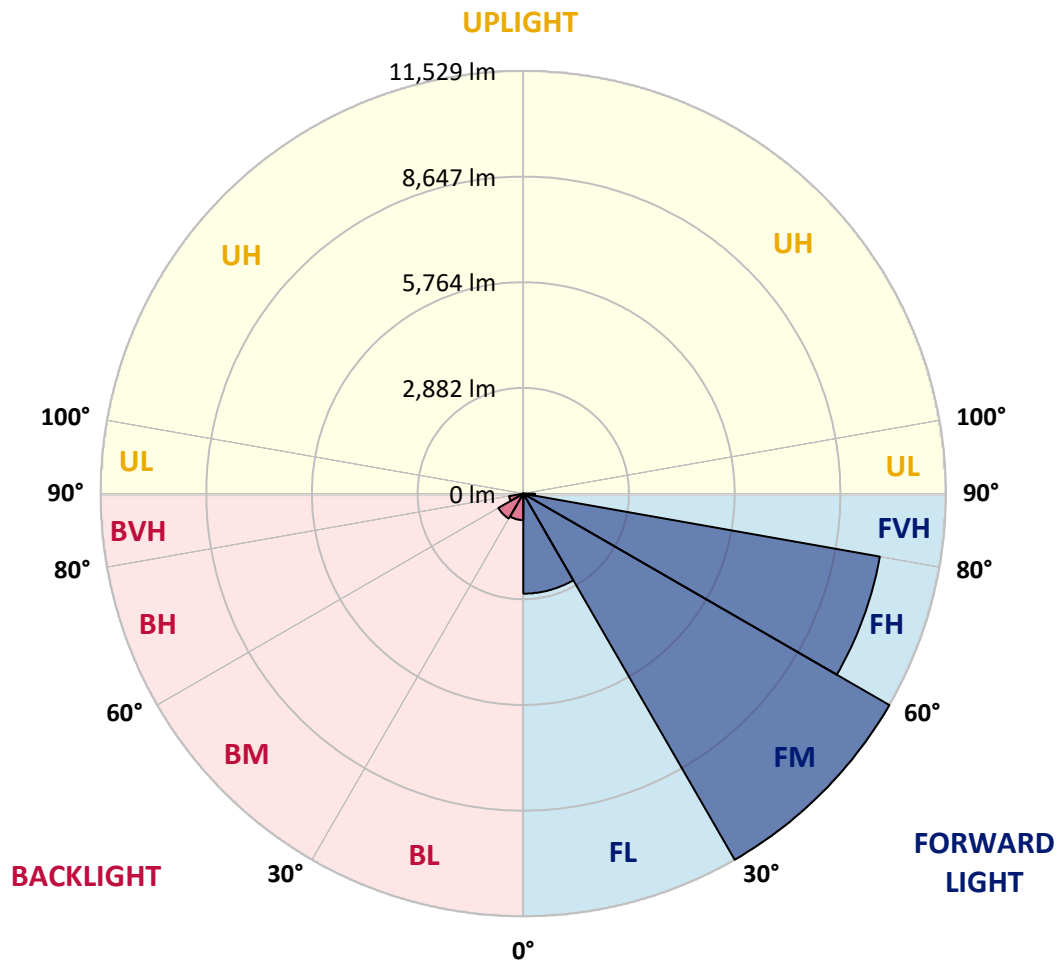
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2727.8	10.4			
FM (30°-60°)	11528.8	43.8			
FH (60°-80°)	9873.0	37.5			G4/12000
FVH (80°-90°)	318.0	1.2			G3/500
BL (0°-30°)	722.0	2.7	B2/1000		
BM (30°-60°)	784.0	3.0	B1/1000		
BH (60°-80°)	393.1	1.5	B1/500		G1/500
BVH (80°-90°)	2.3	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°	6984.9	6984.9	6984.9	6984.9	6984.9	6984.9	6984.9	6984.9	6984.9	6984.9	6984.9
2.5°	8106.5	8118.8	8073.0	8036.0	7941.0	7838.8	7703.3	7631.1	7507.8	7294.8	7058.8
5°	8296.6	8312.5	8305.4	8296.6	8259.7	8161.1	7988.5	7925.1	7743.8	7396.9	6970.8
7.5°	7874.1	7932.2	7939.2	8007.9	8073.0	8081.8	8016.7	7969.1	7801.9	7395.1	6814.1
10°	7314.1	7352.9	7409.2	7488.5	7645.2	7775.5	7838.8	7831.8	7735.0	7340.5	6631.0
12.5°	6748.9	6770.1	6856.3	6991.9	7183.8	7405.7	7574.7	7608.2	7609.9	7275.4	6477.8
15°	6263.0	6254.2	6321.1	6477.8	6747.2	7025.4	7328.2	7381.0	7465.6	7212.0	6335.2
17.5°	5847.4	5893.2	5903.8	6076.3	6324.6	6685.6	7071.2	7164.5	7333.5	7157.4	6217.2
20°	5590.4	5615.0	5637.9	5734.7	5958.4	6338.7	6829.9	6958.5	7210.3	7108.1	6085.1
22.5°	5514.7	5530.5	5511.1	5541.1	5699.5	6037.6	6567.6	6738.4	7092.3	7062.4	5977.7
25°	5572.8	5588.6	5542.8	5507.6	5562.2	5792.9	6314.0	6521.8	6997.2	7053.5	5896.7
27.5°	5713.6	5743.6	5680.2	5616.8	5585.1	5660.8	6115.1	6356.3	6932.1	7095.8	5859.8
30°	5933.7	5951.3	5903.8	5826.3	5754.1	5678.4	6011.2	6241.8	6914.4	7194.4	5856.2
32.5°	6173.2	6210.1	6183.7	6132.7	6039.4	5859.8	6041.1	6245.4	6956.7	7337.0	5900.3
35°	6469.0	6511.2	6535.9	6525.3	6405.6	6182.0	6231.3	6403.8	7069.4	7599.4	6020.0
37.5°	6759.5	6796.5	6935.6	6983.1	6877.5	6666.2	6601.0	6715.5	7317.7	7942.7	6236.6
40°	7092.3	7141.6	7337.0	7518.4	7467.3	7245.5	7125.7	7220.8	7698.0	8460.4	6646.8
42.5°	7411.0	7499.0	7796.6	8117.0	8164.6	7916.3	7837.1	7868.8	8261.4	9205.2	7219.1
45°	7863.5	7946.2	8330.1	8765.0	8988.6	8794.9	8713.9	8708.6	9034.4	10252.8	8147.0
47.5°	8516.7	8590.7	9043.2	9472.8	9870.7	9897.2	9744.0	9796.8	10006.3	11478.3	9284.4
50°	9317.9	9492.2	9789.7	10237.0	10768.7	11198.3	11245.9	11175.5	11355.0	12897.5	10650.8
52.5°	10481.7	10548.6	10821.5	11189.5	11812.8	12541.8	13107.0	13010.1	12953.8	14249.7	12031.2
55°	11349.8	11439.6	11863.9	12369.2	13283.1	14244.4	15469.9	15503.4	14792.0	15549.1	13381.7
57.5°	11087.4	11224.8	11867.4	12883.4	14892.4	16649.6	17561.7	17584.6	16492.9	16811.6	14906.5
60°	9740.4	9805.6	10726.5	12082.2	15029.7	19255.5	20528.5	20343.7	18223.7	18223.7	16253.4
62.5°	6907.4	7009.5	7756.1	9751.0	13573.6	20160.5	24081.7	23699.6	20607.8	19574.2	17056.3
65°	4414.2	4315.6	4810.4	6155.6	10112.0	18824.1	27175.3	27198.2	22851.0	20114.8	16617.9
67°	3197.5	3158.8	3301.4	4208.2	6856.3	15823.8	27240.5	28446.6	24139.8	19773.2	15216.4
67.5°	2924.6	2954.5	3058.4	3796.2	6229.5	14399.4	26944.7	28372.7	24430.3	19567.2	14709.3
70°	2216.8	2165.7	2278.4	2685.1	3734.5	9083.7	23178.5	26022.1	24069.4	17522.9	11753.0
72.5°	1630.5	1625.2	1781.9	2195.6	2875.3	4838.5	17399.7	20864.8	19664.0	13342.9	7400.4
75°	1100.5	1149.8	1399.8	1834.7	2605.9	3137.6	11862.1	15137.1	13651.1	7576.5	3025.0
77.5°	626.8	630.3	901.5	1473.7	2340.0	2524.9	7028.9	9643.6	7226.1	2519.6	898.0
80°	271.2	297.6	447.2	1070.5	1940.3	2236.1	4030.3	5299.8	2922.8	533.5	290.5
82.5°	100.4	118.0	197.2	658.5	1415.6	1841.7	2435.1	2530.2	991.3	188.4	181.4
85°	0.0	3.5	72.2	308.1	737.8	822.3	1626.9	1500.2	438.4	89.8	118.0
87.5°	0.0	0.0	0.0	31.7	96.8	306.4	505.3	563.4	105.6	31.7	28.2
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°	6984.9	6984.9	6984.9	6984.9	6984.9	6984.9	6984.9	6984.9	6984.9	6984.9	6984.9
2.5°	6932.1	6817.6	6530.6	6243.6	6030.6	5852.7	5585.1	5438.9	5361.5	5247.0	5254.1
5°	6757.7	6525.3	6020.0	5497.0	5074.5	4662.5	4169.4	3970.5	3803.2	3708.1	3644.7
7.5°	6498.9	6155.6	5407.2	4710.0	4060.3	3340.1	2799.6	2438.6	2195.6	2105.9	2019.6
10°	6215.4	5759.4	4785.7	3819.1	2917.6	2174.5	1716.7	1385.7	1267.7	1158.6	1169.1
12.5°	5953.1	5398.4	4215.2	3014.4	2044.2	1382.2	1077.6	942.0	903.3	890.9	890.9
15°	5738.3	5053.3	3602.5	2266.1	1401.6	993.1	862.8	825.8	811.7	808.2	808.2
17.5°	5509.4	4725.8	3049.6	1674.5	1019.5	831.1	787.1	762.4	757.1	753.6	753.6
20°	5305.1	4396.6	2524.9	1246.6	824.0	748.3	720.1	704.3	699.0	695.5	697.3
22.5°	5111.4	4104.3	2031.9	942.0	725.4	681.4	653.2	637.4	626.8	618.0	619.8
25°	4938.9	3822.6	1634.0	771.2	653.2	614.5	586.3	563.4	540.5	530.0	528.2
27.5°	4817.4	3576.1	1273.0	660.3	588.1	545.8	510.6	482.4	452.5	436.7	433.1
30°	4717.0	3326.0	1007.1	582.8	522.9	482.4	438.4	397.9	366.2	350.4	343.3
32.5°	4651.9	3088.3	794.1	519.4	468.4	419.1	369.8	329.3	294.0	278.2	274.7
35°	4641.3	2889.4	649.7	466.6	419.1	366.2	315.2	271.2	241.2	225.4	221.9
37.5°	4717.0	2736.2	544.1	424.3	378.6	320.5	264.1	223.6	197.2	184.9	183.1
40°	4919.5	2639.4	471.9	389.1	341.6	278.2	225.4	190.2	163.7	151.4	151.4
42.5°	5305.1	2642.9	424.3	355.7	304.6	237.7	191.9	158.5	135.6	125.0	121.5
45°	5907.3	2762.6	383.8	322.2	269.4	206.0	163.7	130.3	107.4	98.6	98.6
47.5°	6713.7	3000.3	348.6	288.8	237.7	176.1	139.1	105.6	86.3	77.5	77.5
50°	7768.4	3382.4	318.7	260.6	211.3	151.4	112.7	86.3	66.9	59.9	58.1
52.5°	8870.6	3854.3	283.5	235.9	181.4	128.5	91.6	66.9	51.1	45.8	44.0
55°	10087.3	4315.6	250.0	211.3	147.9	107.4	72.2	52.8	37.0	31.7	31.7
57.5°	11314.6	4768.1	209.5	176.1	116.2	79.2	56.3	38.7	24.7	19.4	19.4
60°	12353.4	4914.2	177.8	142.6	88.0	56.3	40.5	24.7	14.1	8.8	8.8
62.5°	12496.0	4421.2	149.7	109.2	63.4	38.7	21.1	14.1	5.3	3.5	3.5
65°	11721.3	3591.9	125.0	82.8	42.3	19.4	8.8	5.3	1.8	0.0	0.0
67°	10502.8	2912.3	102.1	61.6	29.9	12.3	5.3	1.8	0.0	0.0	0.0
67.5°	10191.2	2776.7	98.6	58.1	26.4	10.6	3.5	1.8	0.0	0.0	0.0
70°	7997.3	2079.4	70.4	35.2	15.8	7.0	0.0	0.0	0.0	0.0	0.0
72.5°	4970.6	1176.2	51.1	21.1	10.6	3.5	0.0	0.0	0.0	0.0	0.0
75°	1878.7	412.0	35.2	14.1	7.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	584.6	156.7	21.1	10.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	197.2	59.9	14.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	121.5	24.7	8.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	75.7	10.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.1	3.5	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)