

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: P456752

Luminaire Tested: **GALN-SA8A-740-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456752  
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-SA8A-740-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 30547 lumens  
Efficiency: N/A  
Efficacy: 125.2 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

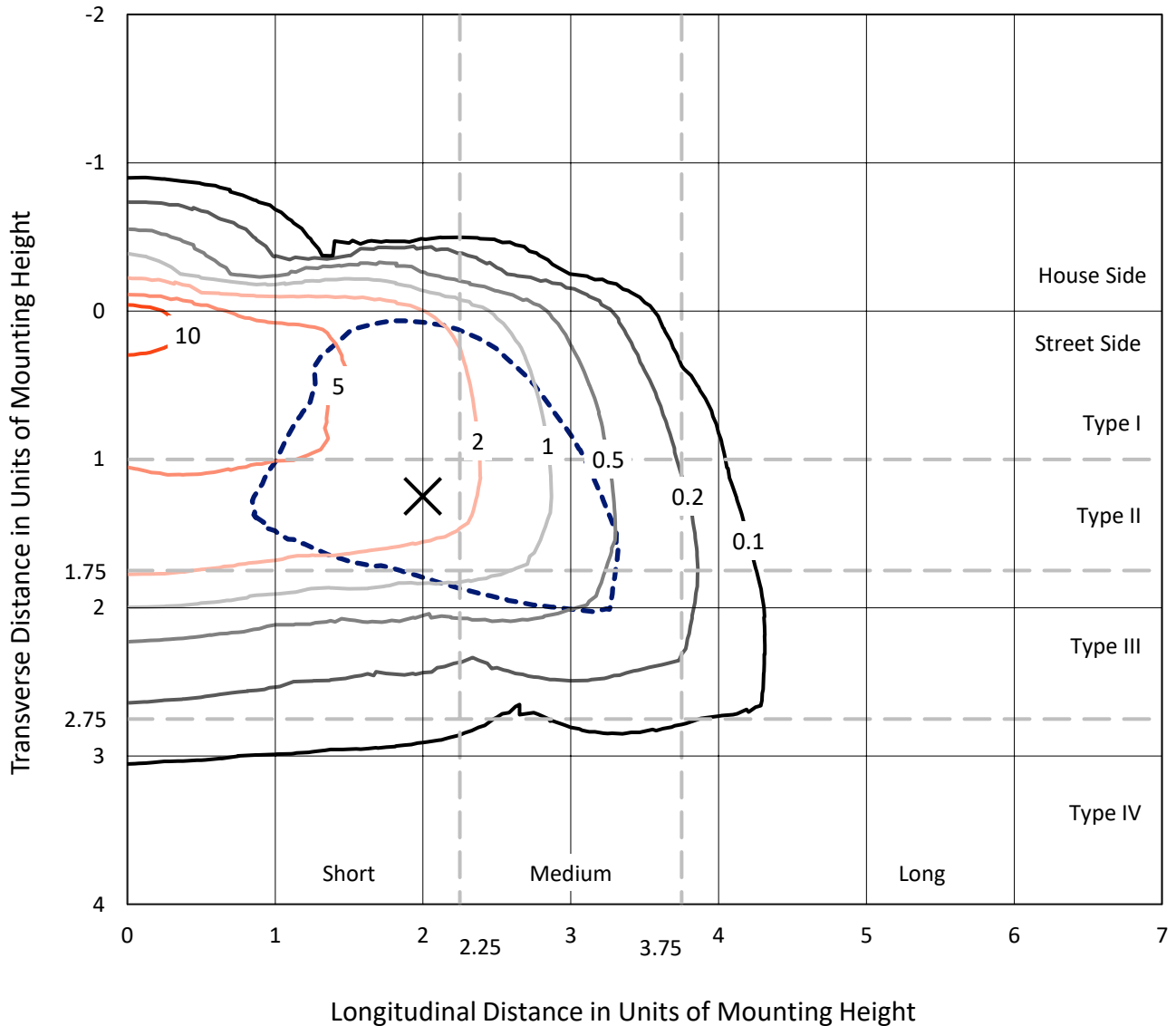
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

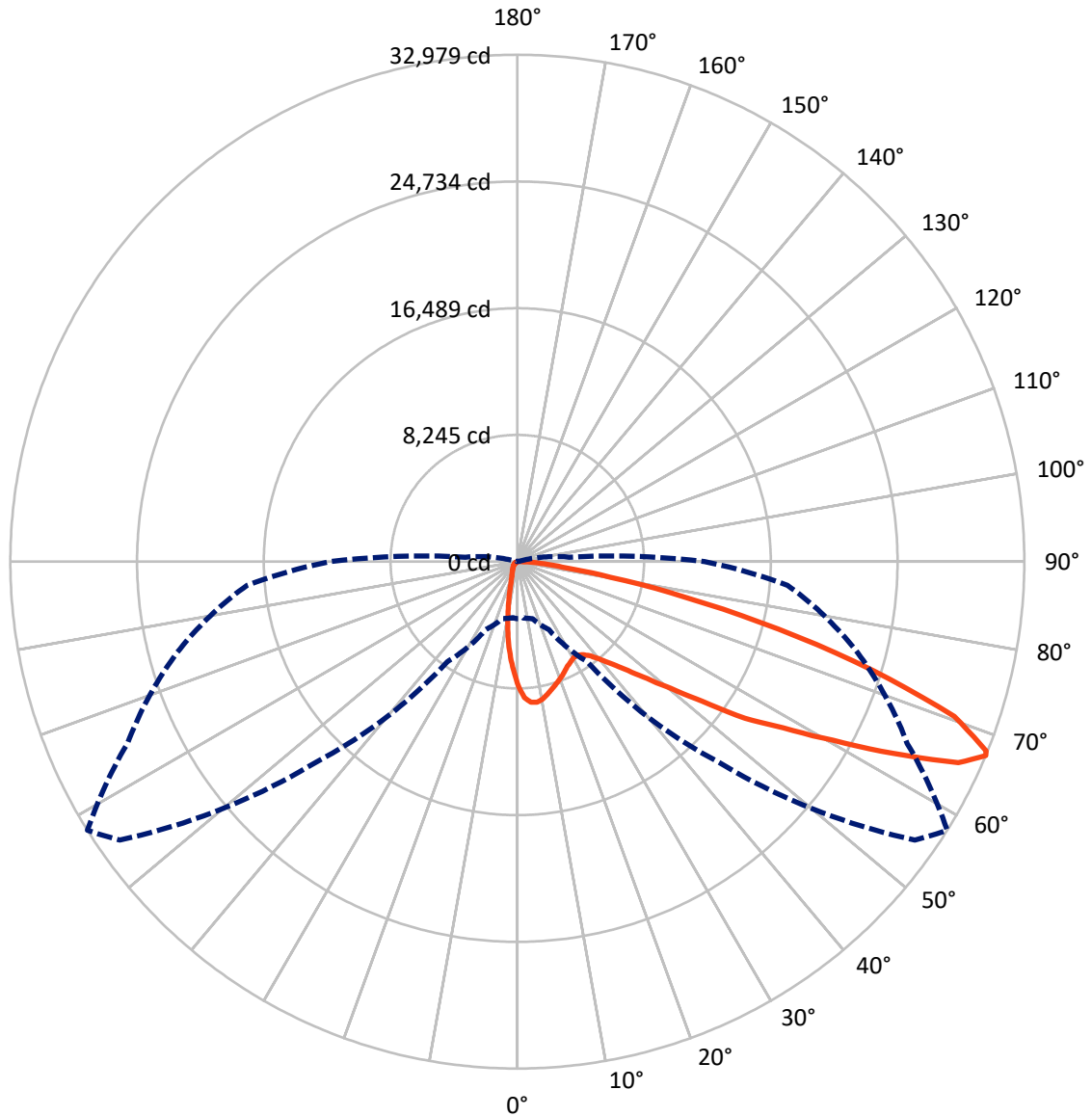
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 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	2204.4	0.0	2204.4
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	28342.6	0.0	28342.6
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	30547.0	0.0	30547.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	657.1	2.2
10°-20°	1419.2	4.6
20°-30°	1923.1	6.3
30°-40°	2667.3	8.7
40°-50°	4254.0	13.9
50°-60°	7353.3	24.1
60°-70°	8399.8	27.5
70°-80°	3501.9	11.5
80°-90°	371.3	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°	30547.0	100.0
0°-180°	30547.0	100.0

**Coefficient of Utilization**



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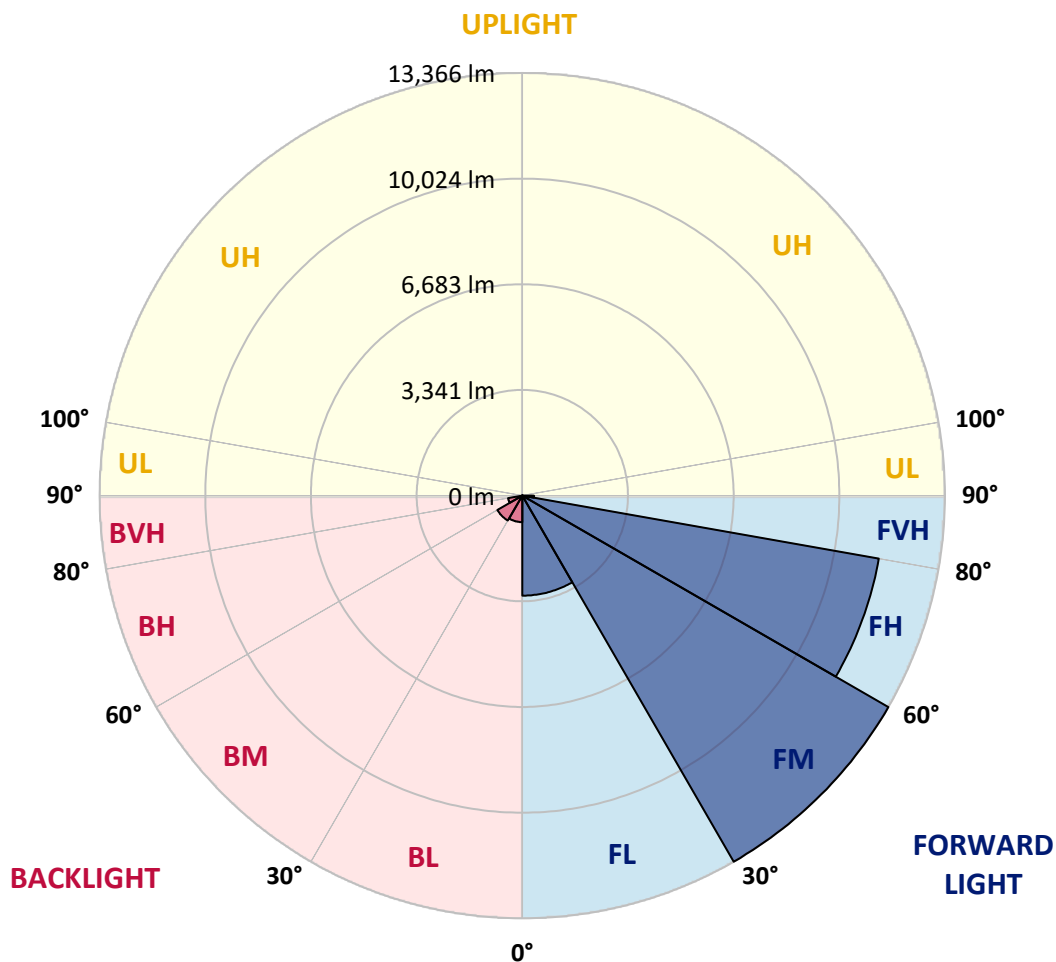
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3162.3	10.4			
FM (30°-60°)	13365.6	43.8			
FH (60°-80°)	11446.0	37.5			G4/12000
FVH (80°-90°)	368.6	1.2			G3/500
BL (0°-30°)	837.1	2.7	B2/1000		
BM (30°-60°)	909.0	3.0	B1/1000		
BH (60°-80°)	455.7	1.5	B1/500		G1/500
BVH (80°-90°)	2.7	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°	8097.7	8097.7	8097.7	8097.7	8097.7	8097.7	8097.7	8097.7	8097.7	8097.7	8097.7
2.5°	9398.0	9412.3	9359.2	9316.4	9206.1	9087.7	8930.6	8846.9	8704.0	8457.0	8183.5
5°	9618.5	9636.8	9628.7	9618.5	9575.6	9461.3	9261.3	9187.8	8977.5	8575.4	8081.4
7.5°	9128.6	9195.9	9204.1	9283.7	9359.2	9369.4	9293.9	9238.8	9044.9	8573.3	7899.7
10°	8479.4	8524.4	8589.7	8681.5	8863.2	9014.3	9087.7	9079.6	8967.3	8510.1	7687.4
12.5°	7824.2	7848.7	7948.7	8105.9	8328.4	8585.6	8781.6	8820.3	8822.4	8434.5	7509.8
15°	7260.8	7250.6	7328.2	7509.8	7822.2	8144.7	8495.8	8557.0	8655.0	8361.1	7344.5
17.5°	6779.1	6832.1	6844.4	7044.4	7332.3	7750.7	8197.8	8305.9	8501.9	8297.8	7207.7
20°	6481.0	6509.6	6536.2	6648.4	6907.7	7348.6	7918.1	8067.1	8359.0	8240.6	7054.6
22.5°	6393.3	6411.6	6389.2	6423.9	6607.6	6999.5	7613.9	7812.0	8222.2	8187.5	6930.1
25°	6460.6	6479.0	6425.9	6385.1	6448.4	6715.8	7320.0	7560.9	8112.0	8177.3	6836.2
27.5°	6623.9	6658.6	6585.1	6511.7	6474.9	6562.7	7089.3	7369.0	8036.5	8226.3	6793.4
30°	6879.1	6899.5	6844.4	6754.6	6670.9	6583.1	6968.9	7236.3	8016.1	8340.6	6789.3
32.5°	7156.7	7199.6	7169.0	7109.8	7001.6	6793.4	7003.6	7240.4	8065.1	8506.0	6840.3
35°	7499.6	7548.6	7577.2	7565.0	7426.2	7166.9	7224.1	7424.1	8195.7	8810.1	6979.1
37.5°	7836.4	7879.3	8040.6	8095.7	7973.2	7728.3	7652.7	7785.4	8483.5	9208.2	7230.2
40°	8222.2	8279.4	8506.0	8716.2	8657.0	8399.8	8261.0	8371.3	8924.4	9808.3	7705.8
42.5°	8591.7	8693.8	9038.8	9410.3	9465.4	9177.6	9085.7	9122.4	9577.7	10671.8	8369.2
45°	9116.3	9212.3	9657.3	10161.5	10420.7	10196.2	10102.3	10096.1	10473.8	11886.3	9445.0
47.5°	9873.6	9959.4	10484.0	10982.0	11443.4	11474.0	11296.4	11357.6	11600.6	13307.1	10763.6
50°	10802.4	11004.5	11349.5	11868.0	12484.4	12982.5	13037.6	12956.0	13164.2	14952.3	12347.7
52.5°	12151.7	12229.3	12545.7	12972.3	13694.9	14540.0	15195.2	15083.0	15017.6	16520.0	13948.0
55°	13158.0	13262.1	13754.1	14339.9	15399.4	16513.9	17934.6	17973.4	17148.7	18026.5	15513.7
57.5°	12853.9	13013.1	13758.2	14936.0	17265.1	19302.3	20359.7	20386.2	19120.6	19490.1	17281.4
60°	11292.3	11367.8	12435.4	14007.2	17424.3	22323.4	23799.2	23584.9	21127.2	21127.2	18843.0
62.5°	8007.9	8126.3	8991.8	11304.6	15736.2	23372.6	27918.5	27475.5	23891.1	22692.8	19773.8
65°	5117.5	5003.2	5576.8	7136.3	11723.0	21823.2	31505.0	31531.5	26491.6	23319.5	19265.5
67°	3707.0	3662.0	3827.4	4878.6	7948.7	18344.9	31580.5	32978.8	27985.9	22923.5	17640.7
67.5°	3390.6	3425.3	3545.7	4401.0	7222.0	16693.5	31237.6	32893.1	28322.7	22684.7	17052.8
70°	2570.0	2510.8	2641.4	3112.9	4329.5	10530.9	26871.3	30168.0	27904.2	20314.7	13625.5
72.5°	1890.2	1884.1	2065.8	2545.5	3333.4	5609.4	20171.9	24189.1	22796.9	15468.8	8579.5
75°	1275.8	1333.0	1622.8	2127.0	3021.1	3637.5	13752.1	17548.8	15826.0	8783.6	3506.9
77.5°	726.7	730.8	1045.1	1708.5	2712.9	2927.2	8148.8	11180.1	8377.4	2921.1	1041.0
80°	314.4	345.0	518.5	1241.1	2249.5	2592.4	4672.5	6144.2	3388.5	618.5	336.8
82.5°	116.4	136.8	228.6	763.4	1641.2	2135.2	2823.1	2933.3	1149.2	218.4	210.3
85°	0.0	4.1	83.7	357.2	855.3	953.3	1886.1	1739.2	508.3	104.1	136.8
87.5°	0.0	0.0	0.0	36.7	112.3	355.2	585.8	653.2	122.5	36.7	32.7
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°	8097.7	8097.7	8097.7	8097.7	8097.7	8097.7	8097.7	8097.7	8097.7	8097.7	8097.7
2.5°	8036.5	7903.8	7571.1	7238.4	6991.4	6785.2	6474.9	6305.5	6215.7	6083.0	6091.2
5°	7834.4	7565.0	6979.1	6372.9	5882.9	5405.3	4833.7	4603.1	4409.1	4298.9	4225.4
7.5°	7534.3	7136.3	6268.7	5460.4	4707.2	3872.3	3245.6	2827.2	2545.5	2441.4	2341.3
10°	7205.7	6677.0	5548.2	4427.5	3382.4	2521.0	1990.2	1606.5	1469.7	1343.2	1355.4
12.5°	6901.5	6258.5	4886.8	3494.7	2369.9	1602.4	1249.3	1092.1	1047.2	1032.9	1032.9
15°	6652.5	5858.5	4176.4	2627.1	1624.9	1151.3	1000.2	957.4	941.0	936.9	936.9
17.5°	6387.1	5478.8	3535.5	1941.3	1181.9	963.5	912.4	883.9	877.7	873.7	873.7
20°	6150.4	5097.1	2927.2	1445.2	955.3	867.5	834.9	816.5	810.4	806.3	808.3
22.5°	5925.8	4758.2	2355.6	1092.1	841.0	790.0	757.3	738.9	726.7	716.5	718.5
25°	5725.8	4431.6	1894.3	894.1	757.3	712.4	679.7	653.2	626.7	614.4	612.4
27.5°	5584.9	4145.8	1475.8	765.5	681.8	632.8	592.0	559.3	524.6	506.2	502.2
30°	5468.6	3856.0	1167.6	675.7	606.3	559.3	508.3	461.3	424.6	406.2	398.0
32.5°	5393.0	3580.4	920.6	602.2	543.0	485.8	428.7	381.7	340.9	322.5	318.4
35°	5380.8	3349.7	753.2	540.9	485.8	424.6	365.4	314.4	279.7	261.3	257.2
37.5°	5468.6	3172.1	630.8	491.9	438.9	371.5	306.2	259.2	228.6	214.3	212.3
40°	5703.3	3059.9	547.1	451.1	396.0	322.5	261.3	220.5	189.8	175.5	175.5
42.5°	6150.4	3064.0	491.9	412.3	353.1	275.6	222.5	183.7	157.2	144.9	140.8
45°	6848.5	3202.8	445.0	373.6	312.3	238.8	189.8	151.1	124.5	114.3	114.3
47.5°	7783.4	3478.3	404.2	334.8	275.6	204.1	161.3	122.5	100.0	89.8	89.8
50°	9006.1	3921.3	369.5	302.1	245.0	175.5	130.6	100.0	77.6	69.4	67.4
52.5°	10283.9	4468.3	328.6	273.5	210.3	149.0	106.1	77.6	59.2	53.1	51.0
55°	11694.5	5003.2	289.9	245.0	171.5	124.5	83.7	61.2	42.9	36.7	36.7
57.5°	13117.2	5527.8	242.9	204.1	134.7	91.9	65.3	44.9	28.6	22.5	22.5
60°	14321.6	5697.2	206.2	165.3	102.1	65.3	46.9	28.6	16.3	10.2	10.2
62.5°	14486.9	5125.6	173.5	126.6	73.5	44.9	24.5	16.3	6.1	4.1	4.1
65°	13588.8	4164.2	144.9	95.9	49.0	22.5	10.2	6.1	2.0	0.0	0.0
67°	12176.2	3376.3	118.4	71.4	34.7	14.3	6.1	2.0	0.0	0.0	0.0
67.5°	11814.9	3219.1	114.3	67.4	30.6	12.2	4.1	2.0	0.0	0.0	0.0
70°	9271.5	2410.7	81.7	40.8	18.4	8.2	0.0	0.0	0.0	0.0	0.0
72.5°	5762.5	1363.6	59.2	24.5	12.2	4.1	0.0	0.0	0.0	0.0	0.0
75°	2178.0	477.7	40.8	16.3	8.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	677.7	181.7	24.5	12.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	228.6	69.4	16.3	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	140.8	28.6	10.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	87.8	12.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.3	4.1	2.0	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)