

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: P458260

Luminaire Tested: **GALN-SA9C-830-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458260  
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-SA9C-830-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3000K, 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: 41895 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

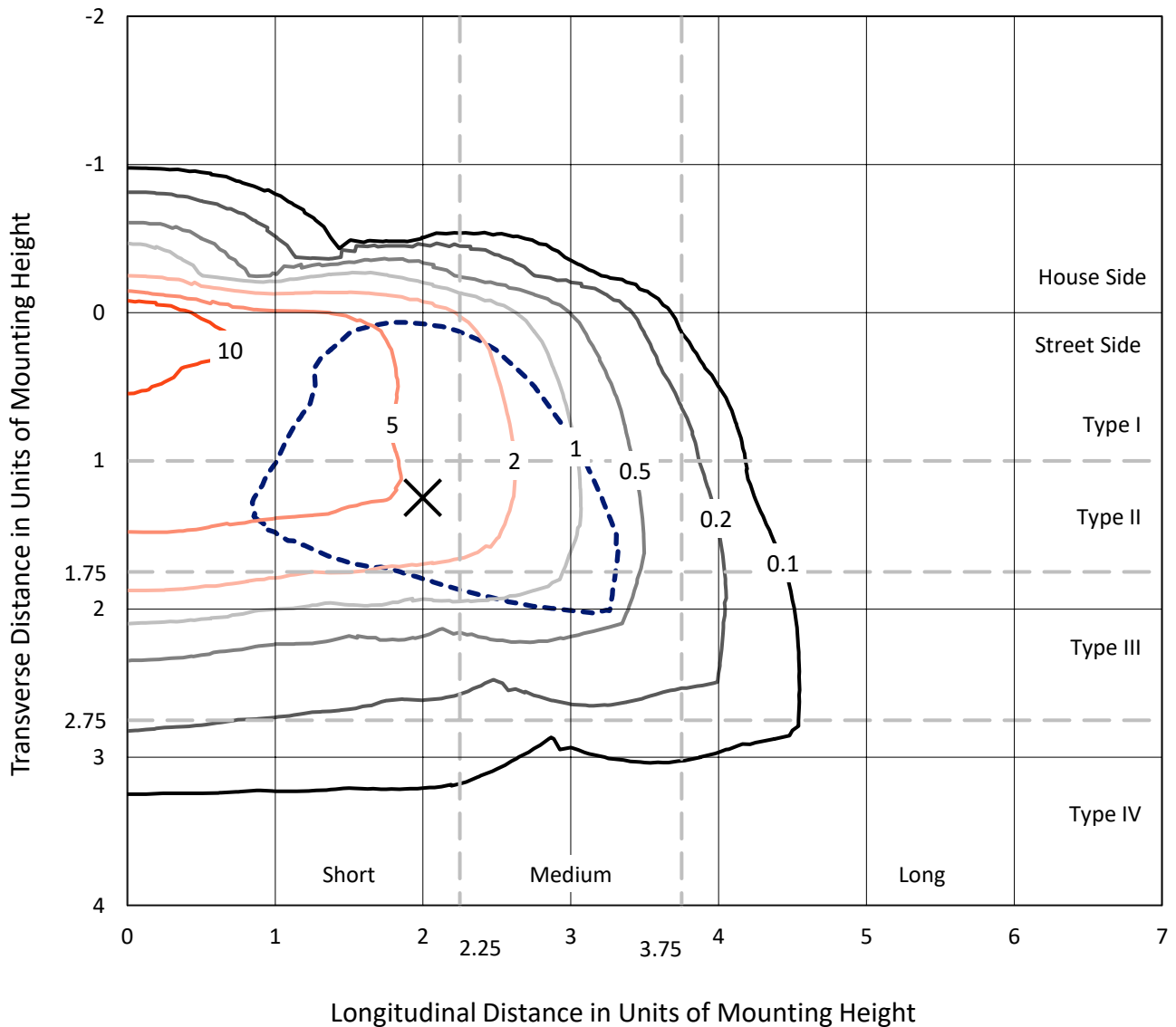
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

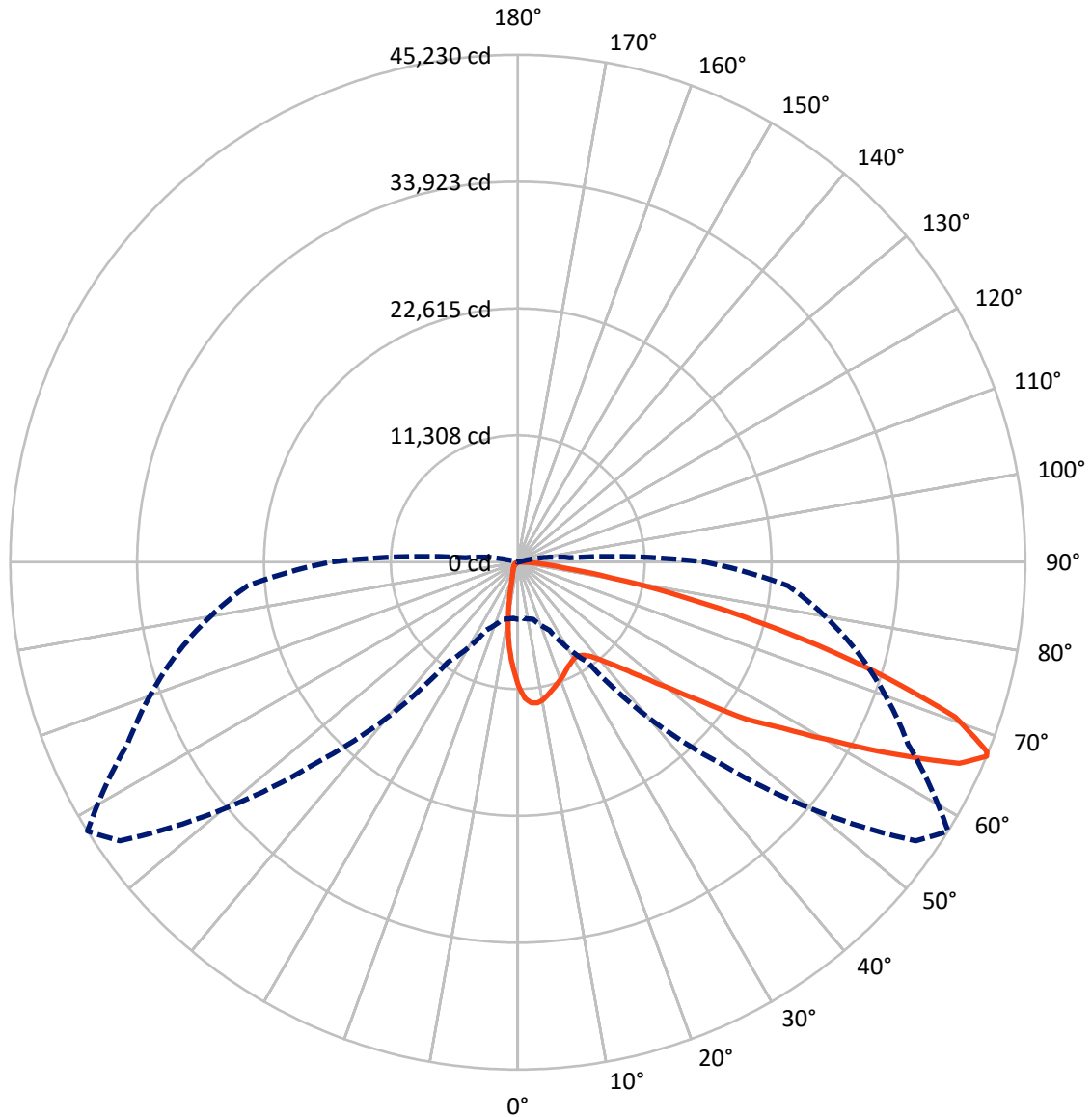
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.7 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	3023.4	0.0	3023.4
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	38871.6	0.0	38871.6
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	41895.0	0.0	41895.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	901.2	2.2
10°-20°	1946.4	4.6
20°-30°	2637.5	6.3
30°-40°	3658.1	8.7
40°-50°	5834.3	13.9
50°-60°	10085.0	24.1
60°-70°	11520.3	27.5
70°-80°	4802.9	11.5
80°-90°	509.2	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°	41895.0	100.0
0°-180°	41895.0	100.0



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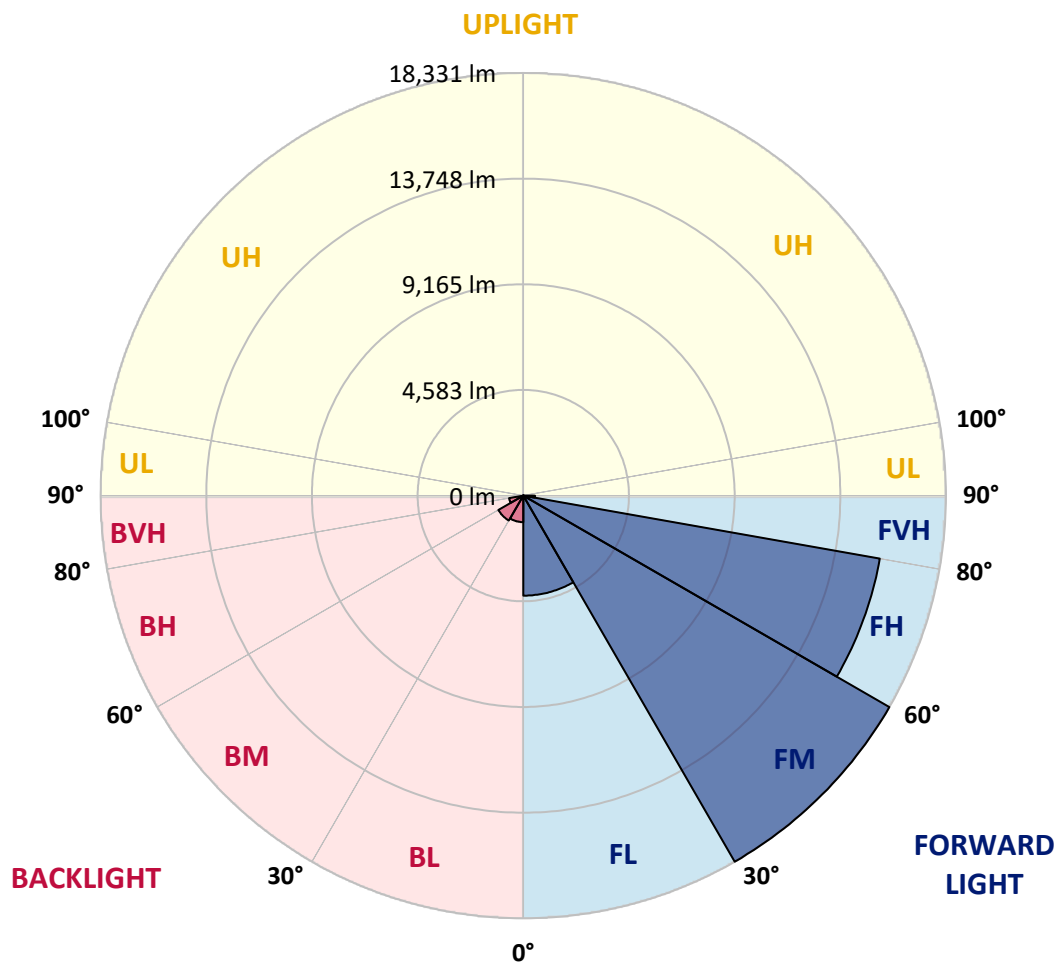
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4337.1	10.4			
FM	(30°-60°)	18330.8	43.8			
FH	(60°-80°)	15698.1	37.5			G5
FVH	(80°-90°)	505.6	1.2			G4/750
BL	(0°-30°)	1148.0	2.7	B3/2500		
BM	(30°-60°)	1246.6	3.0	B2/2500		
BH	(60°-80°)	625.0	1.5	B2/1000		G2/1000
BVH	(80°-90°)	3.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	11106.0	11106.0	11106.0	11106.0	11106.0	11106.0	11106.0	11106.0	11106.0	11106.0	11106.0
2.5°	12889.3	12908.9	12836.1	12777.3	12626.2	12463.8	12248.2	12133.4	11937.5	11598.7	11223.6
5°	13191.7	13216.9	13205.7	13191.7	13132.9	12976.1	12701.7	12601.0	12312.6	11761.1	11083.6
7.5°	12519.8	12612.2	12623.4	12732.5	12836.1	12850.1	12746.5	12671.0	12405.0	11758.3	10834.4
10°	11629.5	11691.1	11780.7	11906.7	12155.8	12363.0	12463.8	12452.6	12298.6	11671.5	10543.3
12.5°	10730.8	10764.4	10901.6	11117.2	11422.3	11775.1	12043.8	12097.0	12099.8	11567.9	10299.7
15°	9958.1	9944.1	10050.5	10299.7	10728.0	11170.4	11651.9	11735.9	11870.3	11467.1	10072.9
17.5°	9297.4	9370.2	9387.0	9661.4	10056.1	10630.0	11243.2	11391.5	11660.3	11380.3	9885.4
20°	8888.7	8927.9	8964.3	9118.3	9473.8	10078.5	10859.6	11064.0	11464.3	11302.0	9675.4
22.5°	8768.3	8793.5	8762.7	8810.3	9062.3	9599.8	10442.5	10714.0	11276.8	11229.2	9504.6
25°	8860.7	8885.9	8813.1	8757.1	8843.9	9210.7	10039.3	10369.7	11125.6	11215.2	9375.8
27.5°	9084.7	9132.3	9031.5	8930.7	8880.3	9000.7	9723.0	10106.5	11022.0	11282.4	9317.0
30°	9434.6	9462.6	9387.0	9263.8	9149.1	9028.7	9557.8	9924.6	10994.0	11439.1	9311.4
32.5°	9815.4	9874.2	9832.2	9751.0	9602.6	9317.0	9605.4	9930.2	11061.2	11665.9	9381.4
35°	10285.7	10352.9	10392.1	10375.3	10184.9	9829.4	9907.8	10182.1	11240.4	12083.0	9571.8
37.5°	10747.6	10806.4	11027.6	11103.2	10935.2	10599.3	10495.7	10677.6	11635.1	12629.0	9916.2
40°	11276.8	11355.1	11665.9	11954.3	11873.1	11520.3	11329.9	11481.1	12239.8	13452.0	10568.5
42.5°	11783.5	11923.5	12396.6	12906.1	12981.7	12587.0	12461.0	12511.4	13135.7	14636.3	11478.3
45°	12503.0	12634.6	13244.9	13936.4	14291.9	13984.0	13855.2	13846.8	14364.7	16302.0	12953.7
47.5°	13541.6	13659.2	14378.7	15061.8	15694.5	15736.5	15492.9	15576.9	15910.1	18250.5	14762.2
50°	14815.4	15092.6	15565.7	16276.8	17122.3	17805.4	17881.0	17769.0	18054.6	20507.0	16934.7
52.5°	16666.0	16772.4	17206.3	17791.4	18782.5	19941.5	20840.2	20686.2	20596.6	22657.1	19129.6
55°	18046.2	18188.9	18863.6	19667.1	21120.1	22648.7	24597.2	24650.4	23519.4	24723.2	21276.9
57.5°	17629.0	17847.4	18869.2	20484.6	23678.9	26472.9	27923.1	27959.5	26223.8	26730.5	23701.3
60°	15487.3	15590.9	17055.1	19210.8	23897.3	30616.3	32640.4	32346.5	28975.8	28975.8	25843.0
62.5°	10982.8	11145.2	12332.2	15504.1	21582.1	32055.3	38290.0	37682.5	32766.4	31123.1	27119.6
65°	7018.6	6861.8	7648.5	9787.4	16078.1	29930.4	43208.9	43245.3	36333.1	31982.5	26422.5
67°	5084.1	5022.5	5249.2	6691.0	10901.6	25159.9	43312.5	45230.2	38382.4	31439.4	24194.1
67.5°	4650.1	4697.7	4862.9	6035.9	9905.0	22895.1	42842.1	45112.6	38844.3	31111.9	23387.8
70°	3524.7	3443.5	3622.7	4269.4	5937.9	14443.1	36853.8	41375.2	38270.4	27861.5	18687.3
72.5°	2592.4	2584.0	2833.2	3491.1	4571.7	7693.3	27665.6	33175.2	31265.8	21215.3	11766.7
75°	1749.7	1828.1	2225.7	2917.2	4143.4	4988.9	18860.8	24068.1	21705.2	12046.6	4809.7
77.5°	996.7	1002.3	1433.4	2343.3	3720.7	4014.6	11176.0	15333.4	11489.5	4006.2	1427.8
80°	431.1	473.1	711.1	1702.2	3085.1	3555.5	6408.3	8426.8	4647.3	848.3	461.9
82.5°	159.6	187.6	313.6	1047.0	2250.9	2928.4	3871.8	4023.0	1576.2	299.6	288.4
85°	0.0	5.6	114.8	489.9	1173.0	1307.4	2586.8	2385.3	697.1	142.8	187.6
87.5°	0.0	0.0	0.0	50.4	154.0	487.1	803.5	895.9	168.0	50.4	44.8
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°	11106.0	11106.0	11106.0	11106.0	11106.0	11106.0	11106.0	11106.0	11106.0	11106.0	11106.0
2.5°	11022.0	10840.0	10383.7	9927.4	9588.6	9305.8	8880.3	8647.9	8524.8	8342.8	8354.0
5°	10744.8	10375.3	9571.8	8740.3	8068.4	7413.3	6629.4	6313.1	6047.1	5895.9	5795.2
7.5°	10333.3	9787.4	8597.5	7488.9	6455.9	5310.8	4451.4	3877.4	3491.1	3348.3	3211.1
10°	9882.6	9157.5	7609.3	6072.3	4638.9	3457.5	2729.6	2203.3	2015.7	1842.1	1858.9
12.5°	9465.4	8583.5	6702.2	4792.9	3250.3	2197.7	1713.4	1497.8	1436.2	1416.6	1416.6
15°	9123.9	8034.8	5728.0	3603.1	2228.5	1579.0	1371.8	1313.0	1290.6	1285.0	1285.0
17.5°	8759.9	7514.1	4848.9	2662.4	1621.0	1321.4	1251.4	1212.2	1203.8	1198.2	1198.2
20°	8435.2	6990.6	4014.6	1982.1	1310.2	1189.8	1145.0	1119.8	1111.4	1105.8	1108.6
22.5°	8127.2	6525.8	3230.7	1497.8	1153.4	1083.4	1038.6	1013.5	996.7	982.7	985.5
25°	7852.9	6077.9	2598.0	1226.2	1038.6	977.1	932.3	895.9	859.5	842.7	839.9
27.5°	7659.7	5686.0	2024.1	1049.8	935.1	867.9	811.9	767.1	719.5	694.3	688.7
30°	7500.1	5288.4	1601.4	926.7	831.5	767.1	697.1	632.7	582.3	557.1	545.9
32.5°	7396.5	4910.5	1262.6	825.9	744.7	666.3	587.9	523.5	467.5	442.3	436.7
35°	7379.7	4594.1	1033.0	741.9	666.3	582.3	501.1	431.1	383.5	358.3	352.7
37.5°	7500.1	4350.6	865.1	674.7	601.9	509.5	419.9	355.5	313.6	294.0	291.2
40°	7822.1	4196.6	750.3	618.7	543.1	442.3	358.3	302.4	260.4	240.8	240.8
42.5°	8435.2	4202.2	674.7	565.5	484.3	377.9	305.2	252.0	215.6	198.8	193.2
45°	9392.6	4392.6	610.3	512.3	428.3	327.6	260.4	207.2	170.8	156.8	156.8
47.5°	10674.8	4770.5	554.3	459.1	377.9	280.0	221.2	168.0	137.2	123.2	123.2
50°	12351.8	5378.0	506.7	414.3	336.0	240.8	179.2	137.2	106.4	95.2	92.4
52.5°	14104.3	6128.3	450.7	375.1	288.4	204.4	145.6	106.4	81.2	72.8	70.0
55°	16038.9	6861.8	397.5	336.0	235.2	170.8	114.8	84.0	58.8	50.4	50.4
57.5°	17990.2	7581.3	333.2	280.0	184.8	126.0	89.6	61.6	39.2	30.8	30.8
60°	19641.9	7813.7	282.8	226.8	140.0	89.6	64.4	39.2	22.4	14.0	14.0
62.5°	19868.7	7029.8	238.0	173.6	100.8	61.6	33.6	22.4	8.4	5.6	5.6
65°	18636.9	5711.2	198.8	131.6	67.2	30.8	14.0	8.4	2.8	0.0	0.0
67°	16699.6	4630.5	162.4	98.0	47.6	19.6	8.4	2.8	0.0	0.0	0.0
67.5°	16204.0	4415.0	156.8	92.4	42.0	16.8	5.6	2.8	0.0	0.0	0.0
70°	12715.7	3306.3	112.0	56.0	25.2	11.2	0.0	0.0	0.0	0.0	0.0
72.5°	7903.2	1870.1	81.2	33.6	16.8	5.6	0.0	0.0	0.0	0.0	0.0
75°	2987.2	655.1	56.0	22.4	11.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	929.5	249.2	33.6	16.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	313.6	95.2	22.4	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	193.2	39.2	14.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	120.4	16.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.4	5.6	2.8	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)