

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: P456723

Luminaire Tested: **GALN-SA8A-730-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456723  
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-730-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 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: 27820 lumens  
Efficiency: N/A  
Efficacy: 114.0 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

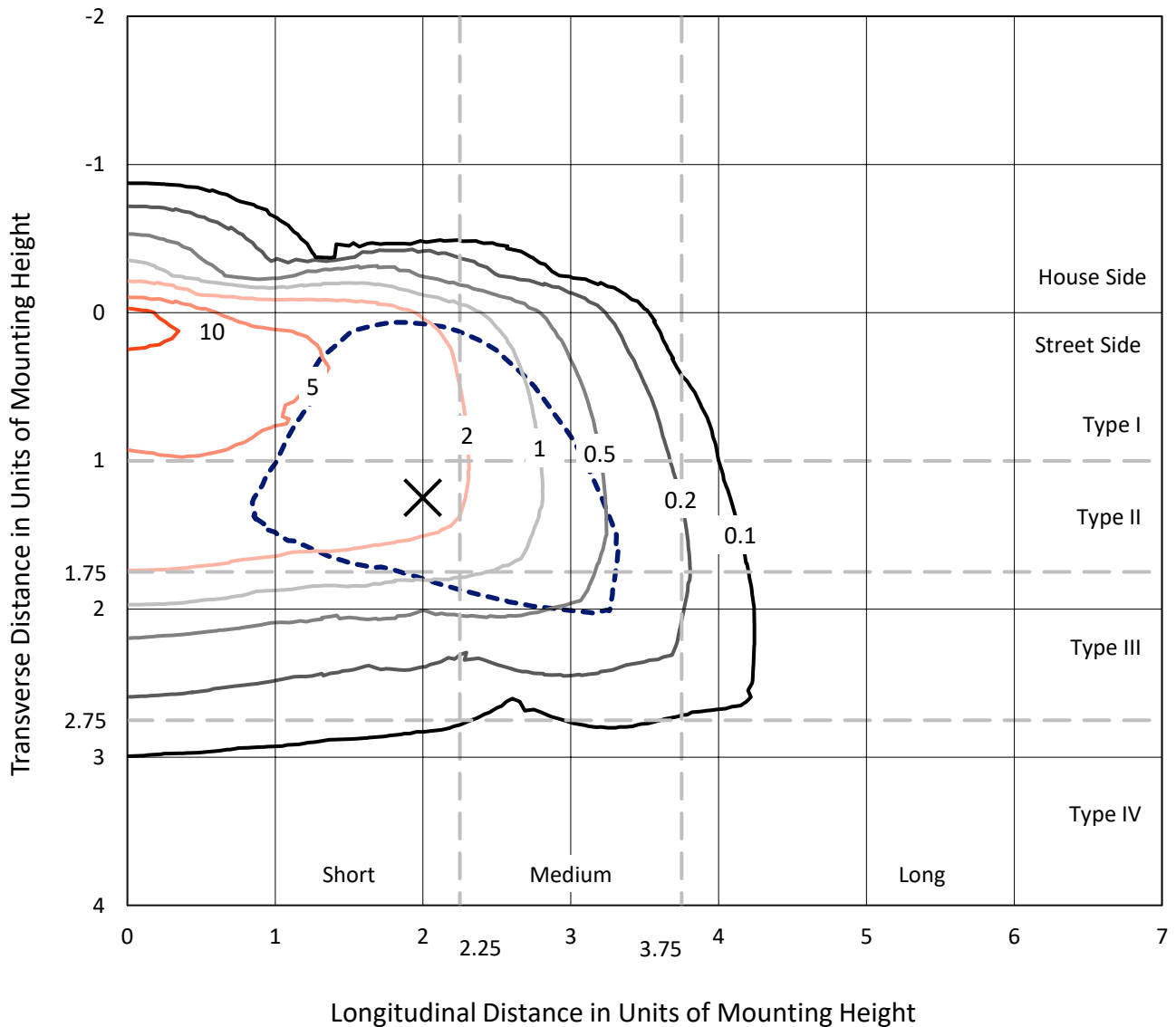
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

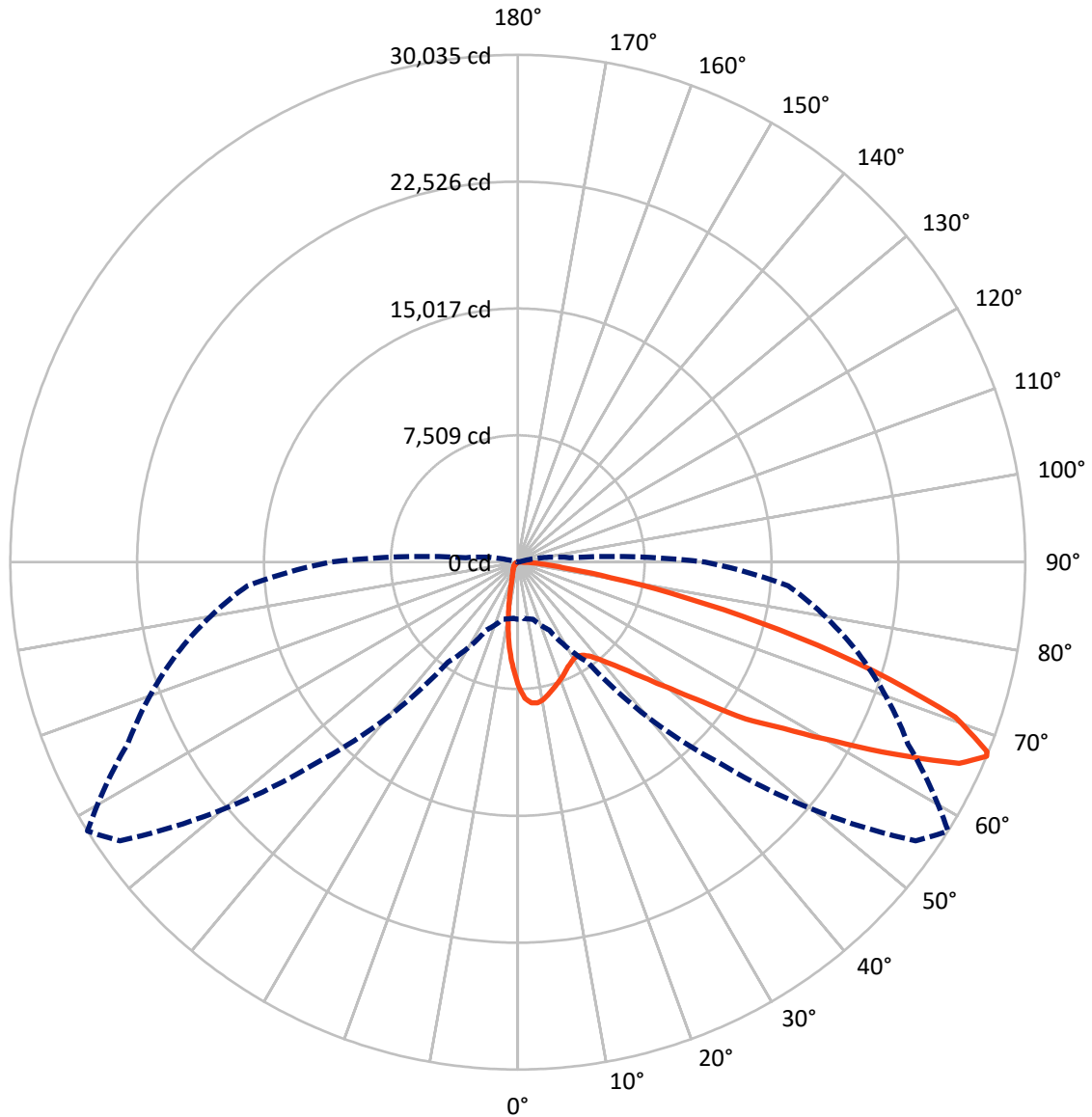
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 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	2007.7	0.0	2007.7
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	25812.3	0.0	25812.3
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	27820.0	0.0	27820.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	598.4	2.2
10°-20°	1292.5	4.6
20°-30°	1751.4	6.3
30°-40°	2429.1	8.7
40°-50°	3874.2	13.9
50°-60°	6696.9	24.1
60°-70°	7649.9	27.5
70°-80°	3189.3	11.5
80°-90°	338.2	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°	27820.0	100.0
0°-180°	27820.0	100.0

**Coefficient of Utilization**

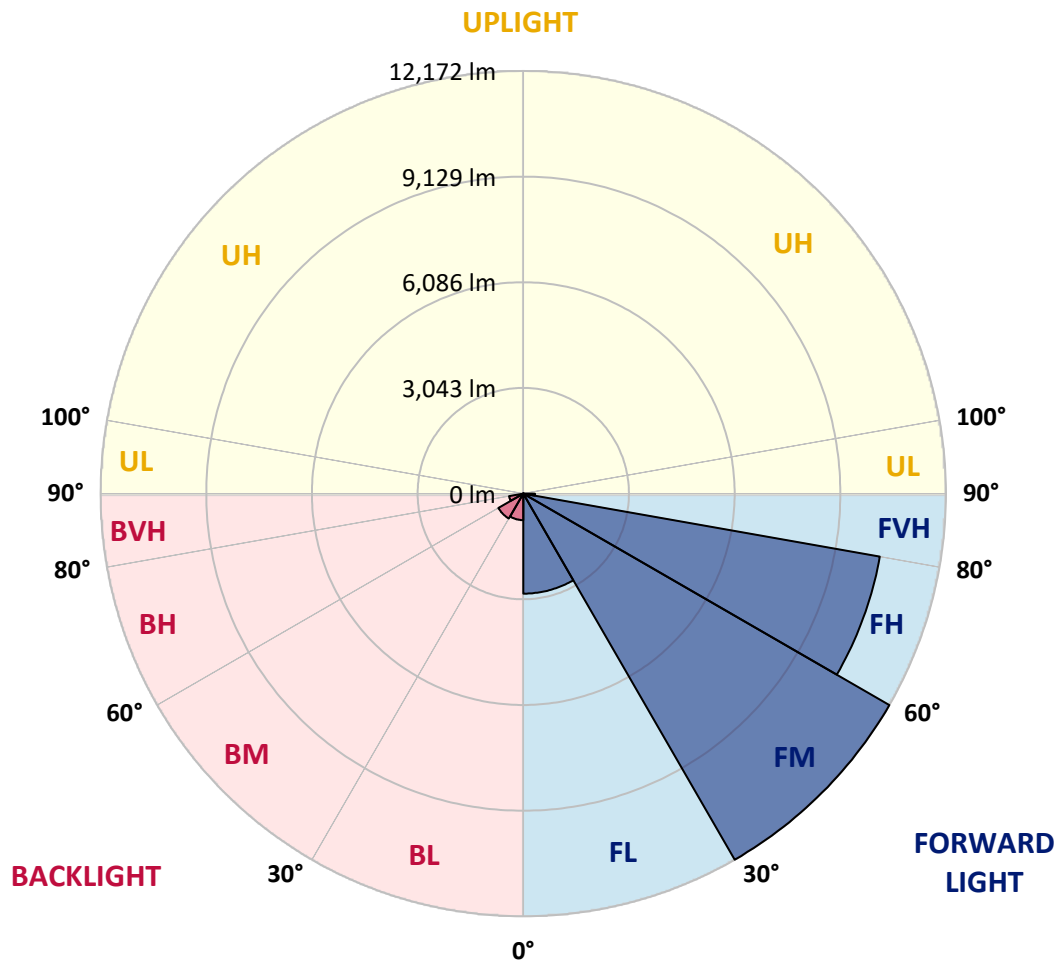


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2880.0	10.4			
FM (30°-60°)	12172.4	43.8			
FH (60°-80°)	10424.2	37.5			G4/12000
FVH (80°-90°)	335.7	1.2			G3/500
BL (0°-30°)	762.4	2.7	B2/1000		
BM (30°-60°)	827.8	3.0	B1/1000		
BH (60°-80°)	415.0	1.5	B1/500		G1/500
BVH (80°-90°)	2.5	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°	7374.8	7374.8	7374.8	7374.8	7374.8	7374.8	7374.8	7374.8	7374.8	7374.8	7374.8
2.5°	8559.0	8572.1	8523.7	8484.7	8384.3	8276.5	8133.3	8057.1	7927.0	7702.0	7452.9
5°	8759.8	8776.5	8769.1	8759.8	8720.8	8616.7	8434.5	8367.6	8176.1	7809.8	7360.0
7.5°	8313.6	8375.0	8382.4	8454.9	8523.7	8533.0	8464.2	8414.0	8237.4	7808.0	7194.5
10°	7722.5	7763.4	7822.9	7906.5	8072.0	8209.5	8276.5	8269.0	8166.8	7750.4	7001.2
12.5°	7125.7	7148.0	7239.1	7382.3	7584.9	7819.1	7997.6	8032.9	8034.8	7681.6	6839.4
15°	6612.6	6603.3	6674.0	6839.4	7123.9	7417.6	7737.3	7793.1	7882.3	7614.6	6688.8
17.5°	6173.9	6222.2	6233.4	6415.6	6677.7	7058.8	7465.9	7564.4	7742.9	7557.0	6564.3
20°	5902.5	5928.5	5952.7	6054.9	6291.0	6692.6	7211.2	7346.9	7612.8	7505.0	6424.9
22.5°	5822.5	5839.3	5818.8	5850.4	6017.7	6374.7	6934.2	7114.6	7488.2	7456.6	6311.5
25°	5883.9	5900.6	5852.3	5815.1	5872.7	6116.3	6666.5	6885.9	7387.8	7447.3	6225.9
27.5°	6032.6	6064.2	5997.3	5930.3	5896.9	5976.8	6456.5	6711.1	7319.1	7491.9	6186.9
30°	6265.0	6283.6	6233.4	6151.6	6075.4	5995.4	6346.8	6590.3	7300.5	7596.1	6183.2
32.5°	6517.8	6556.8	6529.0	6475.0	6376.5	6186.9	6378.4	6594.0	7345.1	7746.6	6229.7
35°	6830.1	6874.7	6900.8	6889.6	6763.2	6527.1	6579.2	6761.3	7464.1	8023.6	6356.1
37.5°	7136.9	7175.9	7322.8	7373.0	7261.4	7038.3	6969.6	7090.4	7726.2	8386.1	6584.7
40°	7488.2	7540.3	7746.6	7938.1	7884.2	7650.0	7523.6	7623.9	8127.7	8932.7	7017.9
42.5°	7824.7	7917.7	8231.8	8570.2	8620.4	8358.3	8274.6	8308.1	8722.6	9719.1	7622.1
45°	8302.5	8389.9	8795.1	9254.3	9490.4	9285.9	9200.4	9194.8	9538.8	10825.2	8601.8
47.5°	8992.2	9070.3	9548.0	10001.7	10421.8	10449.7	10287.9	10343.7	10564.9	12119.1	9802.7
50°	9838.1	10022.1	10336.3	10808.5	11369.9	11823.5	11873.7	11799.4	11989.0	13617.5	11245.4
52.5°	11066.9	11137.5	11425.7	11814.2	12472.3	13242.0	13838.7	13736.5	13677.0	15045.2	12702.8
55°	11983.4	12078.2	12526.2	13059.8	14024.6	15039.7	16333.6	16368.9	15617.8	16417.2	14128.7
57.5°	11706.4	11851.4	12530.0	13602.6	15723.8	17579.1	18542.1	18566.3	17413.7	17750.1	15738.7
60°	10284.2	10353.0	11325.3	12756.8	15868.8	20330.5	21674.6	21479.4	19241.1	19241.1	17160.8
62.5°	7293.0	7400.9	8189.1	10295.4	14331.4	21286.1	25426.1	25022.7	21758.2	20667.0	18008.6
65°	4660.6	4556.5	5078.9	6499.2	10676.5	19875.0	28692.5	28716.6	24126.7	21237.7	17545.7
67°	3376.0	3335.1	3485.7	4443.1	7239.1	16707.2	28761.3	30034.7	25487.5	20877.1	16065.9
67.5°	3087.9	3119.5	3229.2	4008.1	6577.3	15203.3	28448.9	29956.6	25794.2	20659.6	15530.5
70°	2340.5	2286.6	2405.6	2835.0	3943.0	9590.8	24472.5	27474.8	25413.1	18501.2	12409.1
72.5°	1721.5	1715.9	1881.4	2318.2	3035.8	5108.7	18371.1	22029.7	20761.8	14087.8	7813.6
75°	1161.9	1214.0	1477.9	1937.1	2751.4	3312.8	12524.4	15982.2	14413.2	7999.5	3193.8
77.5°	661.8	665.5	951.8	1556.0	2470.7	2665.9	7421.3	10182.0	7629.5	2660.3	948.1
80°	286.3	314.2	472.2	1130.3	2048.7	2361.0	4255.4	5595.7	3086.0	563.3	306.7
82.5°	106.0	124.6	208.2	695.3	1494.7	1944.6	2571.1	2671.4	1046.6	198.9	191.5
85°	0.0	3.7	76.2	325.3	778.9	868.2	1717.8	1583.9	462.9	94.8	124.6
87.5°	0.0	0.0	0.0	33.5	102.2	323.5	533.5	594.9	111.5	33.5	29.7
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°	7374.8	7374.8	7374.8	7374.8	7374.8	7374.8	7374.8	7374.8	7374.8	7374.8	7374.8
2.5°	7319.1	7198.2	6895.2	6592.2	6367.2	6179.5	5896.9	5742.6	5660.8	5540.0	5547.4
5°	7135.0	6889.6	6356.1	5803.9	5357.8	4922.7	4402.2	4192.1	4015.5	3915.1	3848.2
7.5°	6861.7	6499.2	5709.1	4972.9	4287.0	3526.6	2955.9	2574.8	2318.2	2223.4	2132.3
10°	6562.4	6080.9	5052.9	4032.3	3080.4	2295.9	1812.6	1463.1	1338.5	1223.3	1234.4
12.5°	6285.4	5699.8	4450.6	3182.7	2158.3	1459.3	1137.7	994.6	953.7	940.7	940.7
15°	6058.6	5335.5	3803.6	2392.6	1479.8	1048.5	910.9	871.9	857.0	853.3	853.3
17.5°	5816.9	4989.7	3219.9	1768.0	1076.4	877.5	831.0	805.0	799.4	795.7	795.7
20°	5601.3	4642.0	2665.9	1316.2	870.0	790.1	760.3	743.6	738.0	734.3	736.2
22.5°	5396.8	4333.4	2145.3	994.6	765.9	719.4	689.7	673.0	661.8	652.5	654.4
25°	5214.6	4036.0	1725.2	814.3	689.7	648.8	619.1	594.9	570.7	559.6	557.7
27.5°	5086.3	3775.7	1344.1	697.1	620.9	576.3	539.1	509.4	477.8	461.0	457.3
30°	4980.4	3511.7	1063.4	615.3	552.1	509.4	462.9	420.1	386.7	369.9	362.5
32.5°	4911.6	3260.8	838.4	548.4	494.5	442.5	390.4	347.6	310.5	293.7	290.0
35°	4900.4	3050.7	686.0	492.6	442.5	386.7	332.8	286.3	254.7	238.0	234.2
37.5°	4980.4	2889.0	574.4	448.0	399.7	338.3	278.9	236.1	208.2	195.2	193.3
40°	5194.2	2786.7	498.2	410.8	360.7	293.7	238.0	200.8	172.9	159.9	159.9
42.5°	5601.3	2790.4	448.0	375.5	321.6	251.0	202.6	167.3	143.1	132.0	128.3
45°	6237.1	2916.8	405.3	340.2	284.4	217.5	172.9	137.6	113.4	104.1	104.1
47.5°	7088.5	3167.8	368.1	304.9	251.0	185.9	146.9	111.5	91.1	81.8	81.8
50°	8202.1	3571.2	336.5	275.1	223.1	159.9	119.0	91.1	70.6	63.2	61.3
52.5°	9365.9	4069.4	299.3	249.1	191.5	135.7	96.7	70.6	53.9	48.3	46.5
55°	10650.5	4556.5	264.0	223.1	156.2	113.4	76.2	55.8	39.0	33.5	33.5
57.5°	11946.2	5034.3	221.2	185.9	122.7	83.7	59.5	40.9	26.0	20.4	20.4
60°	13043.1	5188.6	187.8	150.6	93.0	59.5	42.8	26.0	14.9	9.3	9.3
62.5°	13193.6	4668.1	158.0	115.3	66.9	40.9	22.3	14.9	5.6	3.7	3.7
65°	12375.7	3792.4	132.0	87.4	44.6	20.4	9.3	5.6	1.9	0.0	0.0
67°	11089.2	3074.9	107.8	65.1	31.6	13.0	5.6	1.9	0.0	0.0	0.0
67.5°	10760.1	2931.7	104.1	61.3	27.9	11.2	3.7	1.9	0.0	0.0	0.0
70°	8443.8	2195.5	74.4	37.2	16.7	7.4	0.0	0.0	0.0	0.0	0.0
72.5°	5248.1	1241.8	53.9	22.3	11.2	3.7	0.0	0.0	0.0	0.0	0.0
75°	1983.6	435.0	37.2	14.9	7.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	617.2	165.5	22.3	11.2	3.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	208.2	63.2	14.9	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	128.3	26.0	9.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	79.9	11.2	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.9	3.7	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)