

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: P454422

Luminaire Tested: **GALN-SA5C-730-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454422  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5C-730-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23195 lumens  
Efficiency: N/A  
Efficacy: 86.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

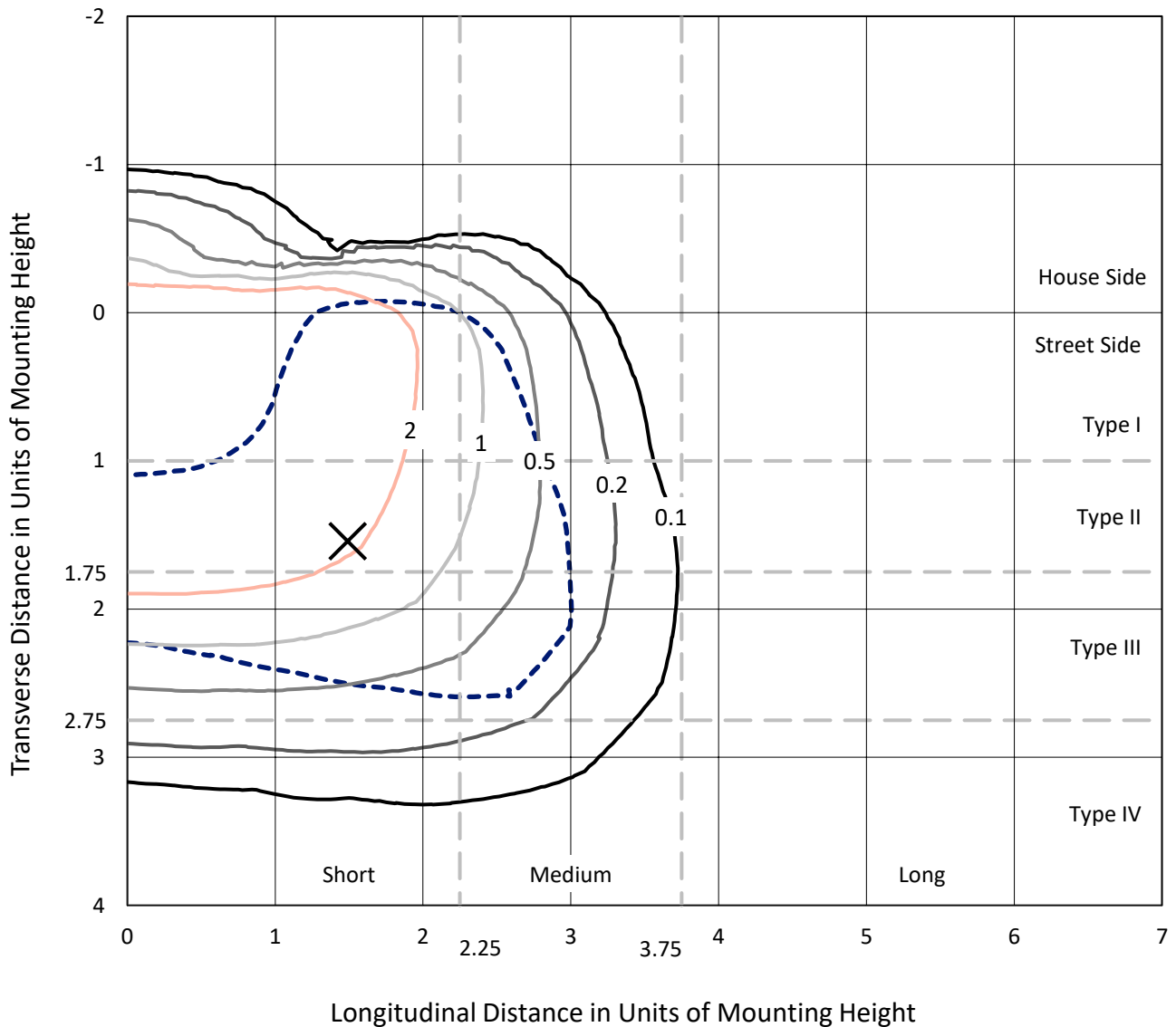
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

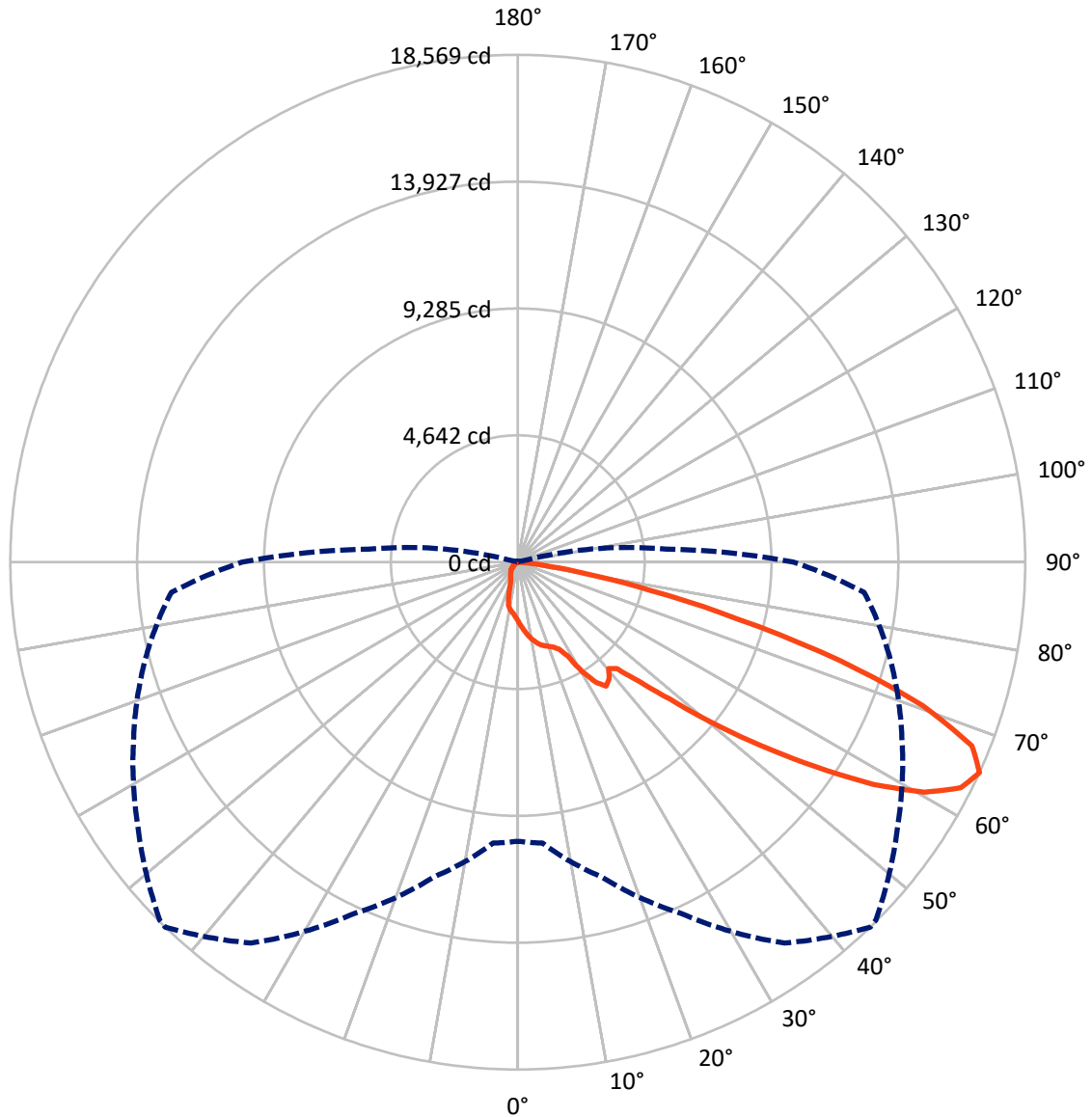
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2137.1	0.0	2137.1
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	21057.9	0.0	21057.9
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	23195.0	0.0	23195.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.7	0.9
10°-20°	646.2	2.8
20°-30°	1095.7	4.7
30°-40°	1821.9	7.9
40°-50°	3181.0	13.7
50°-60°	6214.5	26.8
60°-70°	7210.3	31.1
70°-80°	2625.6	11.3
80°-90°	185.0	0.8
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°	23195.0	100.0
0°-180°	23195.0	100.0

**Coefficient of Utilization**



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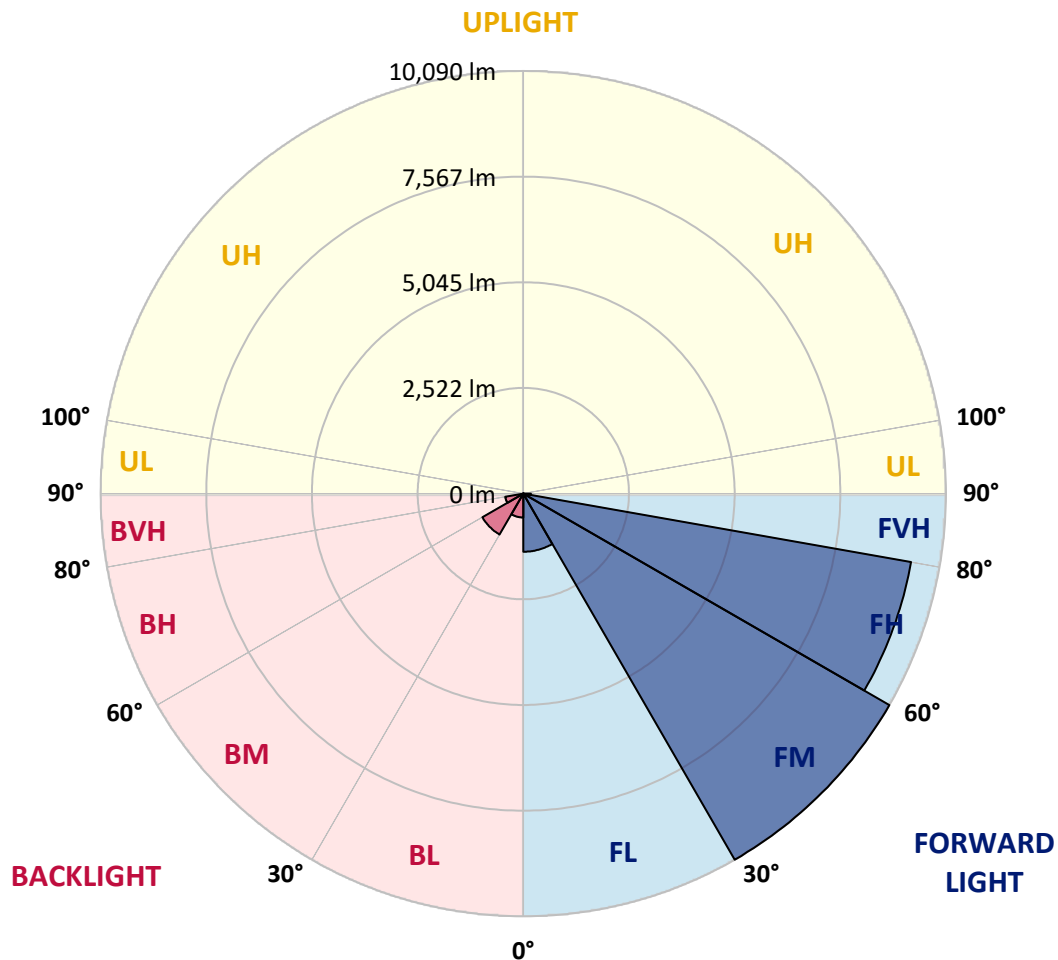
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1387.3	6.0			
FM	(30°-60°)	10089.9	43.5			
FH	(60°-80°)	9398.3	40.5			G4/12000
FVH	(80°-90°)	182.5	0.8			G2/225
BL	(0°-30°)	569.4	2.5	B2/1000		
BM	(30°-60°)	1127.5	4.9	B2/2500		
BH	(60°-80°)	437.6	1.9	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°	44°	45°	55°	65°	75°	85°
0°	2158.8	2158.8	2158.8	2158.8	2158.8	2158.8	2158.8	2158.8	2158.8	2158.8	2158.8
2.5°	2429.9	2419.3	2414.0	2385.6	2364.4	2337.8	2337.8	2304.1	2265.1	2222.6	2183.6
5°	2701.1	2683.4	2660.3	2635.5	2585.9	2515.0	2515.0	2444.1	2362.6	2289.9	2210.2
7.5°	2961.7	2945.7	2906.7	2858.9	2777.3	2702.9	2697.6	2594.8	2497.3	2387.4	2274.0
10°	3190.3	3177.9	3144.2	3052.0	2967.0	2869.5	2867.7	2752.5	2639.1	2504.4	2364.4
12.5°	3349.8	3351.6	3307.3	3218.6	3108.8	3016.6	3009.5	2896.1	2777.3	2632.0	2460.1
15°	3463.2	3463.2	3417.2	3317.9	3218.6	3137.1	3130.0	3030.8	2908.5	2750.7	2564.6
17.5°	3495.1	3505.8	3456.1	3367.5	3287.8	3216.9	3215.1	3131.8	3034.3	2881.9	2671.0
20°	3482.7	3493.4	3454.4	3385.3	3330.3	3289.5	3284.2	3250.6	3160.2	3016.6	2784.4
22.5°	3456.1	3466.8	3438.4	3397.7	3371.1	3383.5	3374.6	3403.0	3355.1	3181.4	2919.1
25°	3461.5	3472.1	3450.8	3427.8	3450.8	3527.0	3550.1	3672.4	3629.8	3390.6	3064.5
27.5°	3628.1	3649.3	3619.2	3629.8	3711.4	3888.6	3932.9	4143.8	3956.0	3656.4	3291.3
30°	3998.5	3984.3	3927.6	3979.0	4262.6	4638.3	4625.9	4592.2	4298.0	3963.0	3560.7
32.5°	4335.2	4322.8	4319.3	4540.8	5054.8	5237.4	5228.5	4902.4	4604.7	4314.0	3826.6
35°	4471.7	4423.9	4413.2	4950.3	5809.9	5568.8	5513.9	5030.0	4976.9	4696.8	4097.8
37.5°	4882.9	4849.2	4684.4	5017.6	5508.6	5428.8	5386.3	5249.8	5373.9	5035.3	4404.4
40°	5730.1	5636.2	5487.3	5161.2	5081.4	5115.1	5157.6	5531.6	5843.5	5497.9	4813.8
42.5°	6782.9	6761.6	6485.2	5877.2	5279.9	5326.0	5381.0	6120.0	6518.8	6194.5	5482.0
45°	8046.6	8076.8	7678.0	6960.1	6176.8	6215.7	6295.5	6988.5	7433.4	7277.4	6533.0
47.5°	9195.1	9172.1	9037.4	8291.2	7568.1	7481.2	7610.6	8103.3	8698.9	8723.7	7837.5
50°	10350.7	10473.0	10272.7	9980.3	9443.3	9260.7	9212.8	9453.9	10361.4	10242.6	9404.3
52.5°	12011.4	12075.2	11699.5	11625.1	11747.4	11155.4	11107.5	11166.0	11977.8	11570.1	10577.6
55°	13055.4	13018.2	12878.1	13459.5	13943.3	13204.3	13144.0	12908.3	13319.5	12507.7	11706.6
57.5°	13385.0	13438.2	13764.3	14815.4	15960.3	15332.9	15223.0	14553.0	14287.2	13381.5	12745.2
60°	13237.9	13335.4	14039.0	15602.3	17190.3	17096.4	17002.5	15877.0	14982.0	14111.7	13473.7
62.5°	12190.5	12326.9	13452.4	15462.3	17606.9	18193.5	18076.5	16702.9	15444.5	14466.2	13601.3
65°	10216.0	10317.0	11933.5	14191.5	17014.9	18569.3	18526.7	16961.7	15517.2	14141.8	12727.5
67.5°	7282.7	7626.6	9124.2	11960.0	15263.8	17927.7	18000.3	16651.5	14834.8	12739.9	10540.4
70°	4578.1	4812.0	5886.1	8562.4	12236.5	15728.1	15967.4	15231.9	12874.6	9930.7	7055.9
72.5°	2183.6	2357.3	3122.9	5419.9	8636.8	12374.8	12564.4	12504.2	9955.5	6256.5	3640.5
75°	973.0	1038.6	1490.6	2766.7	5575.9	8317.8	8808.7	8890.3	6221.1	3060.9	1416.1
77.5°	496.3	498.0	698.3	1339.9	2784.4	4962.7	5060.2	5345.5	3372.8	1348.8	492.7
80°	264.1	281.8	370.4	632.7	1444.5	2444.1	2431.7	2672.8	1495.9	661.1	164.8
82.5°	118.7	131.2	209.1	331.4	705.4	927.0	999.6	1093.6	641.6	421.8	72.7
85°	35.4	42.5	102.8	166.6	255.2	267.6	299.5	386.4	363.3	299.5	37.2
87.5°	5.3	5.3	42.5	46.1	37.2	47.9	49.6	54.9	117.0	109.9	19.5
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°	2158.8	2158.8	2158.8	2158.8	2158.8	2158.8	2158.8	2158.8	2158.8	2158.8	2158.8
2.5°	2162.3	2149.9	2105.6	2068.4	2036.5	2017.0	1993.9	1979.8	1972.7	1967.3	1969.1
5°	2171.2	2141.0	2064.8	2004.6	1958.5	1908.9	1875.2	1855.7	1846.8	1832.6	1832.6
7.5°	2220.8	2172.9	2066.6	1974.4	1894.7	1827.3	1763.5	1740.5	1724.5	1721.0	1717.4
10°	2291.7	2231.4	2086.1	1958.5	1845.1	1752.9	1662.5	1582.7	1520.7	1483.5	1478.2
12.5°	2380.3	2293.5	2116.2	1947.8	1802.5	1639.5	1400.2	1238.9	1130.8	1097.1	1102.4
15°	2461.8	2367.9	2146.4	1939.0	1724.5	1359.4	1088.2	903.9	849.0	843.7	845.4
17.5°	2559.3	2447.7	2181.8	1926.6	1510.1	1038.6	808.2	758.6	769.2	786.9	785.2
20°	2660.3	2532.7	2224.3	1852.1	1205.2	781.6	714.3	719.6	735.5	751.5	755.0
22.5°	2768.5	2630.2	2274.0	1673.1	919.9	680.6	677.1	684.1	700.1	717.8	721.4
25°	2917.3	2752.5	2311.2	1439.2	696.5	629.2	636.3	648.7	662.9	682.4	685.9
27.5°	3108.8	2917.3	2330.7	1134.3	602.6	583.1	584.9	602.6	620.3	638.1	638.1
30°	3356.9	3114.1	2291.7	857.8	556.5	538.8	531.7	542.3	565.4	583.1	584.9
32.5°	3578.4	3300.2	2188.9	655.8	522.9	498.0	480.3	482.1	491.0	501.6	503.4
35°	3800.0	3481.0	2013.4	551.2	487.4	459.0	432.5	418.3	411.2	405.9	411.2
37.5°	4083.6	3706.1	1779.5	501.6	457.3	421.8	384.6	354.5	329.7	313.7	317.3
40°	4448.7	4018.0	1503.0	469.7	428.9	386.4	336.8	297.8	255.2	241.0	234.0
42.5°	5051.3	4491.2	1212.3	443.1	400.6	349.2	287.1	234.0	195.0	180.8	184.3
45°	6003.1	5088.5	934.0	414.7	372.2	308.4	241.0	184.3	152.4	145.3	148.9
47.5°	7265.0	5861.3	719.6	382.8	336.8	264.1	189.6	145.3	125.8	124.1	122.3
50°	8452.5	6580.9	600.8	347.4	294.2	219.8	156.0	122.3	109.9	108.1	108.1
52.5°	9526.6	7096.6	489.2	306.6	248.1	180.8	131.2	108.1	97.5	92.2	92.2
55°	10481.9	7433.4	397.0	257.0	195.0	143.6	113.4	97.5	85.1	78.0	76.2
57.5°	11203.2	7474.1	297.8	205.6	145.3	111.7	97.5	85.1	70.9	62.0	58.5
60°	11511.6	7121.4	219.8	156.0	108.1	88.6	78.0	69.1	53.2	44.3	42.5
62.5°	11201.5	6435.5	163.1	118.7	83.3	65.6	54.9	51.4	37.2	26.6	24.8
65°	10090.2	5444.8	129.4	90.4	62.0	47.9	35.4	33.7	23.0	12.4	10.6
67.5°	8083.8	4264.4	102.8	67.4	44.3	31.9	23.0	21.3	12.4	3.5	3.5
70°	5256.9	2725.9	83.3	49.6	28.4	21.3	14.2	10.6	7.1	1.8	0.0
72.5°	2600.1	1274.3	67.4	39.0	19.5	10.6	5.3	3.5	5.3	0.0	0.0
75°	1008.5	453.7	49.6	26.6	10.6	5.3	3.5	0.0	1.8	0.0	0.0
77.5°	335.0	150.7	30.1	14.2	7.1	3.5	0.0	0.0	0.0	0.0	0.0
80°	124.1	58.5	16.0	8.9	3.5	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	49.6	23.0	10.6	7.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.8	14.2	7.1	5.3	3.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.7	10.6	7.1	5.3	3.5	1.8	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)