

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: P452616

Luminaire Tested: **GALN-SA3C-750-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452616  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-750-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16803 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

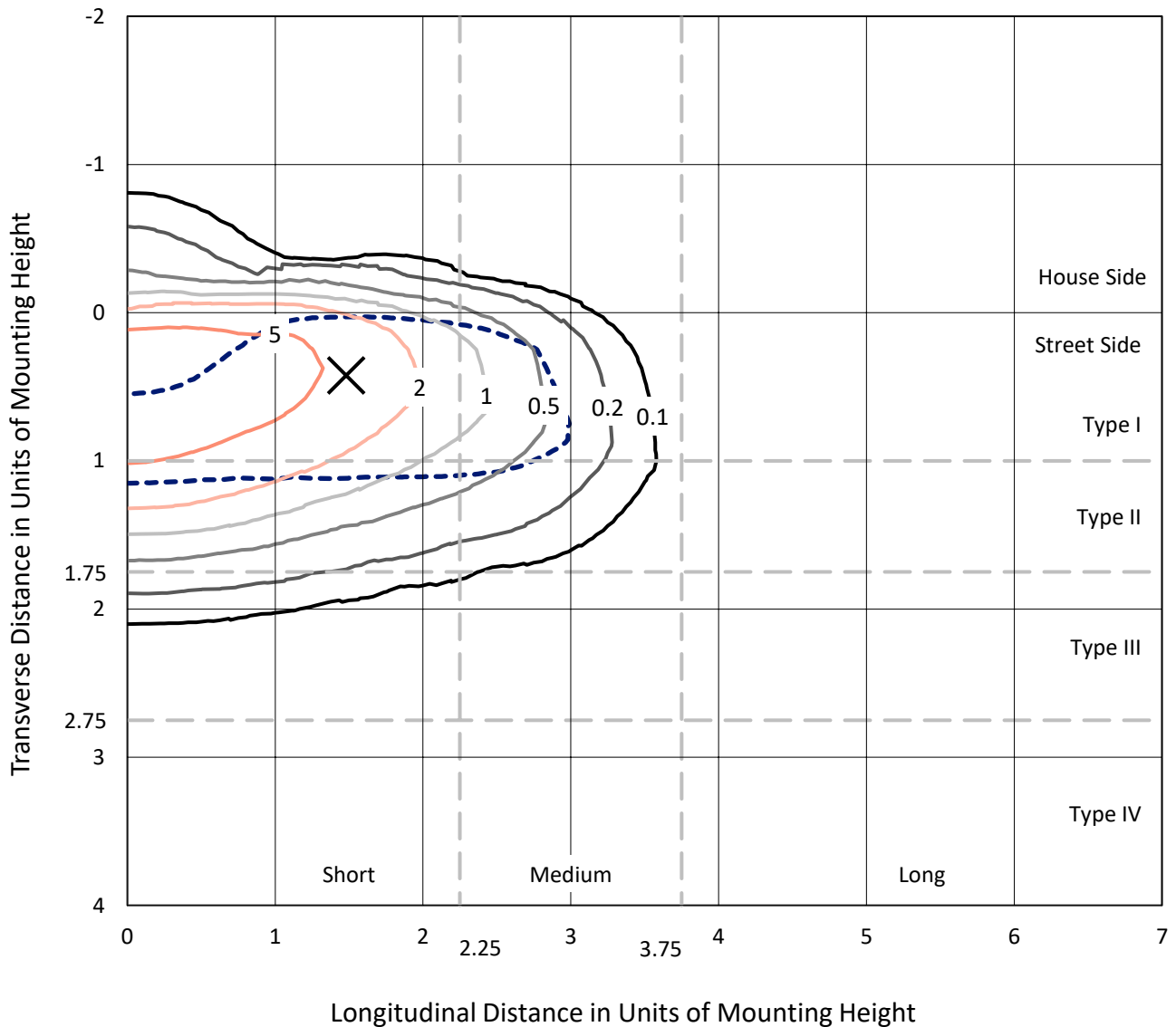
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

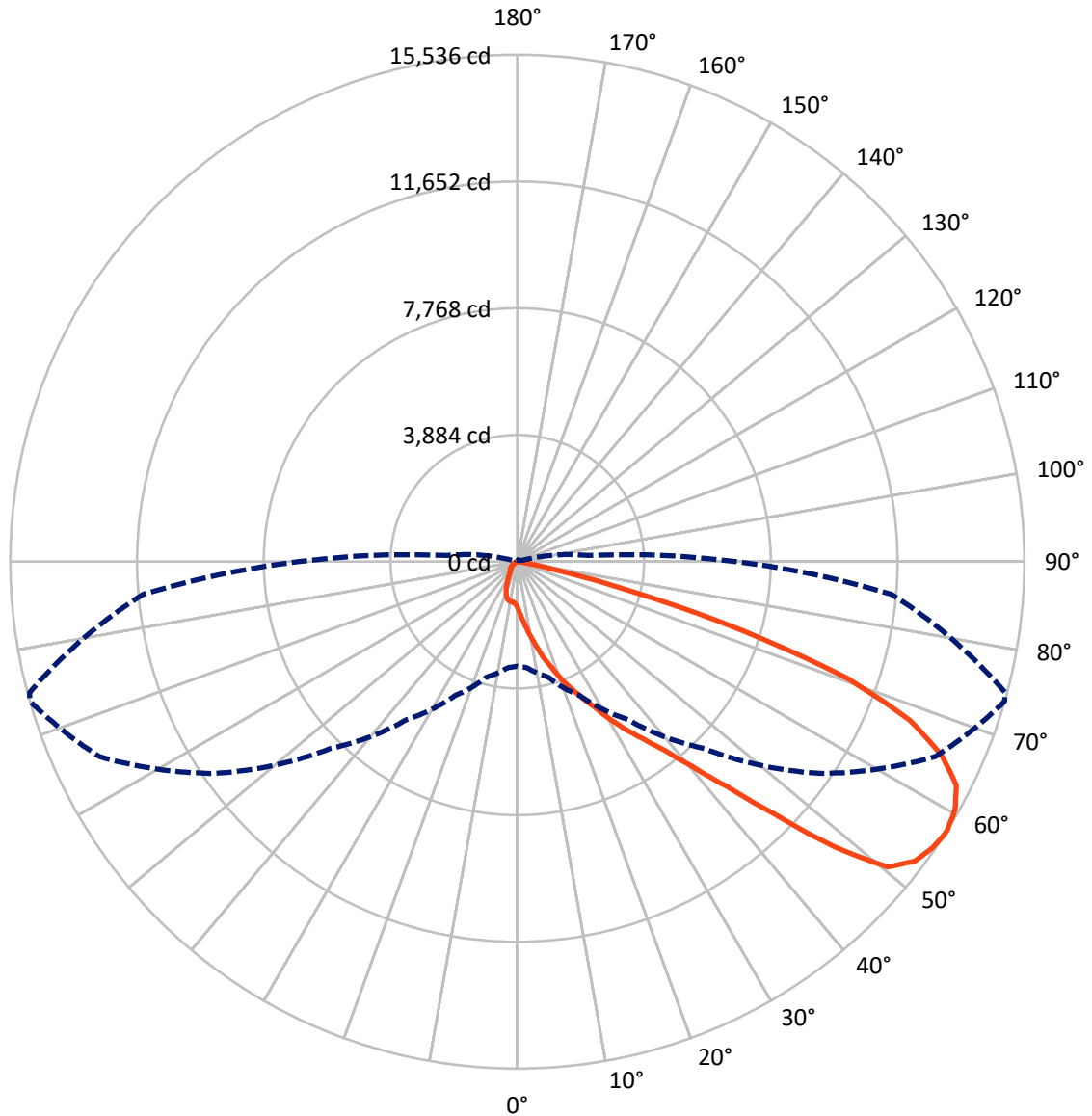
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral    - - - Horizontal Cone Through 57-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	969.1	0.0	969.1
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	15833.9	0.0	15833.9
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	16803.0	0.0	16803.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.9	1.0
10°-20°	669.5	4.0
20°-30°	1432.6	8.5
30°-40°	2633.1	15.7
40°-50°	4036.5	24.0
50°-60°	4270.1	25.4
60°-70°	2788.5	16.6
70°-80°	761.9	4.5
80°-90°	41.0	0.2
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°	16803.0	100.0
0°-180°	16803.0	100.0

**Coefficient of Utilization**



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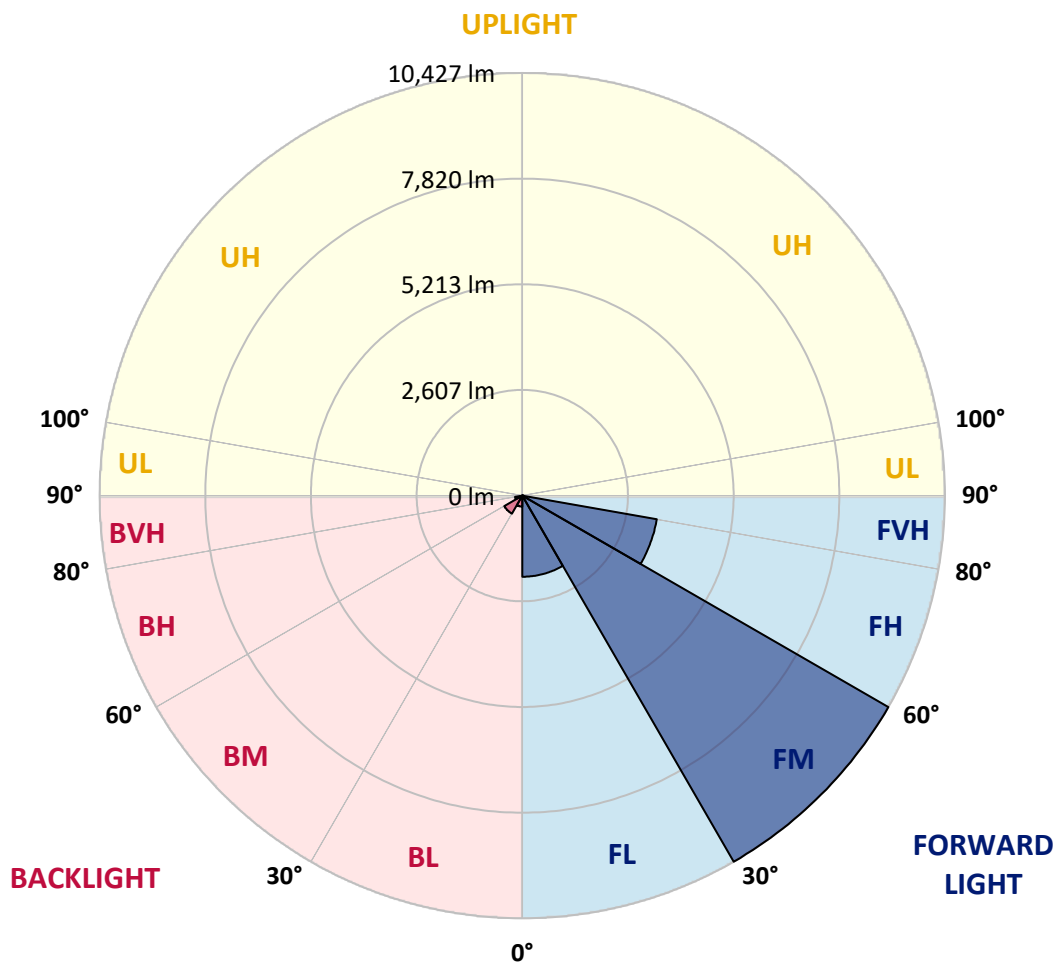
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2001.2	11.9			
FM (30°-60°)	10426.6	62.1			
FH (60°-80°)	3368.4	20.0			G2/5000
FVH (80°-90°)	37.6	0.2			G1/100
BL (0°-30°)	270.7	1.6	B1/500		
BM (30°-60°)	513.1	3.1	B1/1000		
BH (60°-80°)	181.9	1.1	B1/500		G1/500
BVH (80°-90°)	3.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1407.2	1407.2	1407.2	1407.2	1407.2	1407.2	1407.2	1407.2	1407.2	1407.2	1407.2
2.5°	2059.2	2040.7	2003.5	1990.8	1936.2	1851.6	1777.3	1677.5	1598.6	1590.5	1495.4
5°	2757.6	2715.8	2698.4	2614.9	2483.8	2360.9	2149.7	1989.6	1805.2	1791.2	1599.8
7.5°	3430.5	3372.5	3355.1	3276.2	3123.1	2929.3	2655.5	2364.3	2072.0	2045.3	1740.2
10°	3917.7	3925.9	3894.5	3842.3	3718.2	3521.0	3183.4	2785.5	2369.0	2335.3	1898.0
12.5°	4266.9	4265.8	4271.6	4270.4	4204.3	4054.6	3699.6	3241.4	2696.1	2630.0	2078.9
15°	4494.3	4497.8	4515.2	4575.5	4582.5	4489.7	4193.8	3677.6	3075.5	2993.1	2275.0
17.5°	4724.0	4748.4	4776.2	4833.1	4884.1	4847.0	4638.2	4132.4	3418.9	3357.4	2485.0
20°	5103.4	5137.0	5120.8	5155.6	5182.3	5185.8	5024.5	4552.3	3835.4	3732.1	2725.1
22.5°	5710.1	5709.0	5667.2	5604.6	5552.3	5550.0	5403.9	4983.9	4213.6	4113.8	2966.4
25°	6477.0	6480.4	6399.2	6220.6	6090.6	5931.7	5763.5	5362.1	4618.5	4495.5	3220.5
27.5°	7356.3	7334.3	7211.3	6965.4	6707.8	6436.4	6193.9	5801.8	5047.7	4945.6	3511.7
30°	8146.4	8138.3	7994.4	7693.9	7355.2	7082.6	6731.0	6352.8	5603.4	5478.1	3837.7
32.5°	8881.9	8893.5	8694.0	8383.0	8055.9	7741.5	7370.3	6879.5	6148.7	5971.2	4192.7
35°	9456.2	9467.8	9261.3	9002.6	8666.1	8405.1	8051.3	7441.0	6686.9	6537.3	4601.0
37.5°	9762.4	9777.5	9658.0	9463.1	9253.1	9122.0	8792.6	8163.8	7341.3	7250.8	5083.7
40°	9820.4	9837.8	9785.6	9733.4	9721.8	9815.8	9719.5	9015.3	8248.5	8106.9	5802.9
42.5°	9646.4	9669.6	9692.8	9808.8	10045.5	10390.1	10725.3	10170.8	9416.7	9226.5	6682.3
45°	9189.3	9187.0	9278.7	9579.1	10109.3	10844.8	11776.4	11617.5	11008.4	10782.2	7924.8
47.5°	8407.4	8395.8	8594.2	9022.3	9848.3	10928.4	12633.7	13373.9	13039.8	12831.0	9260.1
50°	7216.0	7272.8	7584.9	8182.3	9199.8	10675.5	12898.2	14525.9	14706.9	14485.3	10339.0
52.5°	5820.3	5818.0	6307.6	7118.5	8239.2	10118.6	12713.8	14734.7	15248.7	15079.3	10870.4
55°	4307.5	4337.7	4847.0	5664.9	6992.1	9102.3	12111.7	14520.1	15455.2	15335.7	11220.7
57°	3204.3	3257.6	3666.0	4531.4	5906.2	8096.5	11310.0	14136.1	15536.4	15471.4	11511.9
57.5°	2990.8	2993.1	3391.0	4177.6	5588.3	7710.2	11080.3	13976.0	15534.0	15498.1	11559.5
60°	1841.1	1899.1	2174.1	2823.7	4090.6	6017.6	9540.9	13056.0	15413.4	15465.6	11762.5
62.5°	1102.1	1126.5	1305.1	1701.9	2637.0	4392.2	7807.6	11878.5	15099.0	15257.9	11748.6
65°	708.8	714.6	795.8	1030.2	1648.5	2968.8	6016.4	10322.8	14285.8	14578.1	11289.2
67.5°	547.6	556.9	589.3	676.4	955.9	1849.2	4255.3	8662.6	12970.2	13347.2	10175.4
70°	486.1	490.7	502.3	530.2	632.3	1044.1	2647.4	6767.0	10755.5	10862.2	7963.1
72.5°	396.8	409.5	445.5	454.8	501.2	652.0	1473.4	4541.9	7226.4	7253.1	4454.9
75°	307.4	309.8	363.1	389.8	422.3	449.0	657.8	2290.1	3471.1	3285.5	1717.0
77.5°	229.7	240.1	264.5	298.2	344.6	321.4	294.7	863.1	1077.8	1058.0	498.9
80°	147.3	153.1	184.5	223.9	268.0	210.0	165.9	252.9	236.7	243.6	119.5
82.5°	74.2	75.4	118.3	182.1	170.5	105.6	104.4	103.3	88.2	87.0	55.7
85°	8.1	17.4	76.6	104.4	76.6	34.8	48.7	47.6	46.4	47.6	32.5
87.5°	1.2	1.2	12.8	15.1	10.4	11.6	13.9	15.1	18.6	17.4	13.9
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°	1407.2	1407.2	1407.2	1407.2	1407.2	1407.2	1407.2	1407.2	1407.2	1407.2	1407.2
2.5°	1449.0	1402.6	1316.7	1234.4	1172.9	1133.4	1082.4	1063.8	1037.2	1033.7	1020.9
5°	1511.6	1423.5	1273.8	1155.5	1060.4	988.4	925.8	873.6	831.8	822.5	827.2
7.5°	1601.0	1469.9	1261.1	1099.8	967.5	844.6	744.8	683.3	639.2	623.0	625.3
10°	1701.9	1531.4	1258.7	1040.6	838.8	688.0	578.9	524.4	498.9	489.6	479.1
12.5°	1821.4	1602.1	1252.9	949.0	697.2	548.7	471.0	438.5	414.2	407.2	407.2
15°	1956.0	1677.5	1225.1	835.3	566.1	453.6	401.4	375.9	367.8	360.8	360.8
17.5°	2096.3	1751.8	1167.1	694.9	469.8	388.6	356.2	341.1	329.5	321.4	321.4
20°	2256.4	1824.9	1074.3	570.8	396.8	346.9	321.4	304.0	294.7	287.7	285.4
22.5°	2408.4	1884.0	955.9	468.7	345.7	312.1	288.9	270.3	261.0	257.5	257.5
25°	2566.2	1920.0	813.2	387.5	315.6	283.1	257.5	242.5	234.3	232.0	230.9
27.5°	2719.3	1940.9	688.0	338.8	287.7	256.4	232.0	220.4	212.3	210.0	211.1
30°	2904.9	1944.4	566.1	304.0	263.3	230.9	208.8	198.4	193.7	191.4	190.3
32.5°	3092.9	1939.7	475.7	283.1	240.1	208.8	190.3	182.1	178.7	175.2	175.2
35°	3304.0	1915.4	404.9	262.2	218.1	190.3	174.0	167.1	162.4	158.9	157.8
37.5°	3566.2	1902.6	364.3	239.0	198.4	172.9	157.8	150.8	147.3	142.7	141.5
40°	3979.2	1959.4	351.5	218.1	178.7	156.6	142.7	134.6	129.9	125.3	124.1
42.5°	4494.3	2059.2	330.6	197.2	161.3	141.5	127.6	118.3	110.2	104.4	102.1
45°	5161.4	2190.3	298.2	175.2	146.2	125.3	112.5	100.9	90.5	85.8	84.7
47.5°	5860.9	2316.8	269.1	157.8	129.9	111.4	97.5	84.7	75.4	71.9	70.8
50°	6290.2	2342.3	250.6	138.1	113.7	96.3	82.4	70.8	65.0	61.5	61.5
52.5°	6486.2	2301.7	225.1	120.7	98.6	84.7	70.8	61.5	58.0	55.7	54.5
55°	6623.1	2239.0	191.4	104.4	84.7	71.9	62.6	55.7	51.0	48.7	47.6
57°	6703.2	2154.3	165.9	91.6	73.1	62.6	55.7	49.9	45.2	40.6	40.6
57.5°	6706.7	2121.9	158.9	90.5	69.6	60.3	54.5	48.7	42.9	38.3	37.1
60°	6603.4	1899.1	127.6	76.6	55.7	51.0	45.2	38.3	30.2	25.5	24.4
62.5°	6271.6	1616.1	105.6	65.0	45.2	39.4	32.5	29.0	20.9	15.1	15.1
65°	5769.3	1310.9	90.5	52.2	37.1	29.0	22.0	20.9	12.8	7.0	5.8
67.5°	5043.1	1020.9	76.6	42.9	31.3	20.9	15.1	13.9	7.0	2.3	0.0
70°	3842.3	696.1	63.8	34.8	23.2	15.1	10.4	8.1	4.6	1.2	0.0
72.5°	2214.7	382.8	53.4	26.7	17.4	11.6	8.1	4.6	4.6	0.0	0.0
75°	791.2	164.7	40.6	19.7	13.9	9.3	5.8	2.3	3.5	1.2	0.0
77.5°	251.7	88.2	26.7	15.1	11.6	7.0	4.6	2.3	2.3	1.2	0.0
80°	74.2	46.4	16.2	12.8	8.1	5.8	3.5	1.2	2.3	1.2	0.0
82.5°	40.6	23.2	12.8	9.3	8.1	4.6	3.5	1.2	1.2	1.2	0.0
85°	20.9	13.9	10.4	9.3	8.1	4.6	3.5	1.2	0.0	1.2	1.2
87.5°	11.6	10.4	10.4	9.3	8.1	5.8	3.5	1.2	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)