

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: P458820

Luminaire Tested: **GALN-SA3C-735-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458820  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3C-735-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14615 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

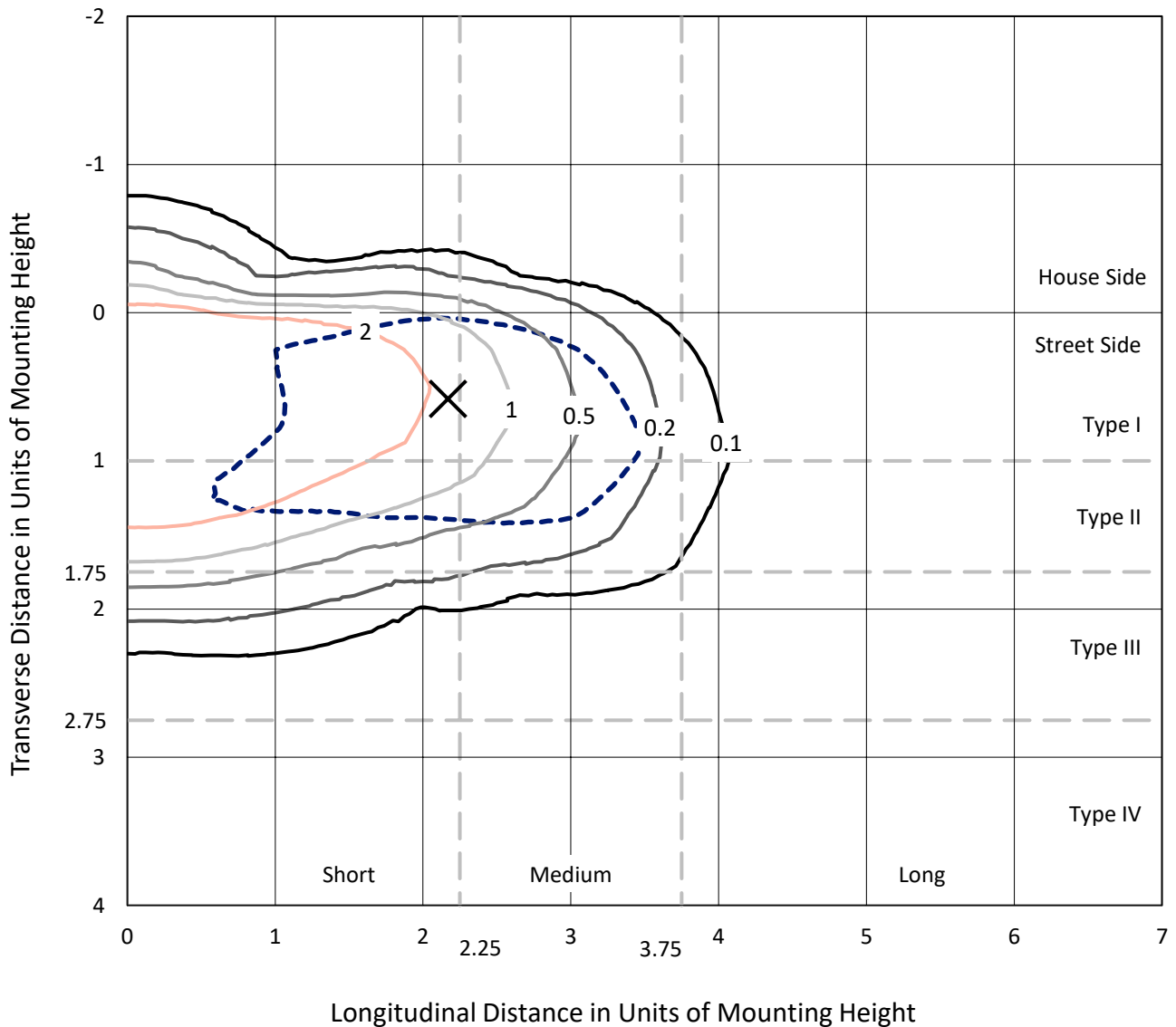
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

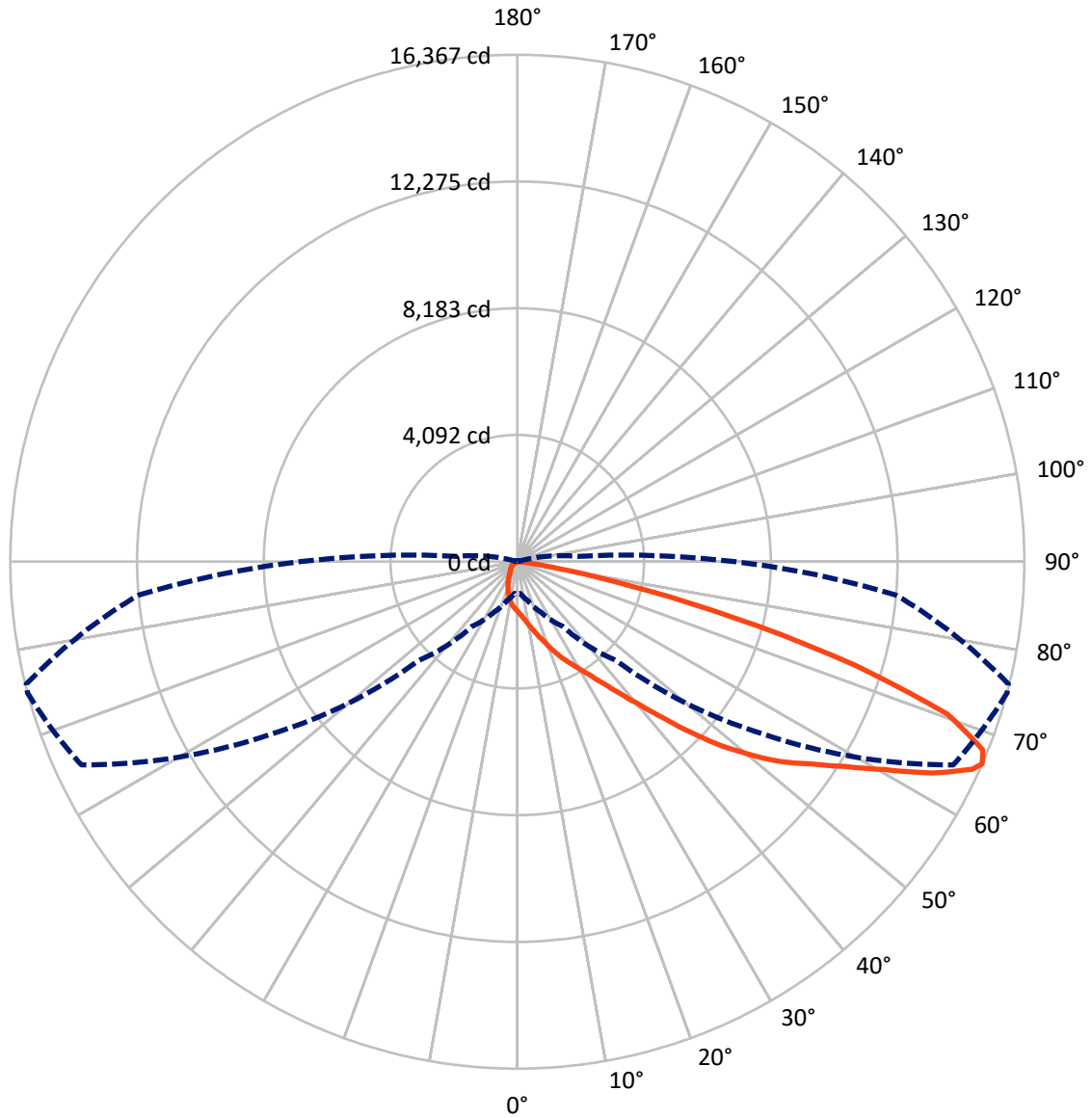
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	902.3	0.0	902.3
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	13712.7	0.0	13712.7
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	14615.0	0.0	14615.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.2	1.1
10°-20°	453.7	3.1
20°-30°	783.4	5.4
30°-40°	1413.1	9.7
40°-50°	2552.9	17.5
50°-60°	3980.0	27.2
60°-70°	3780.8	25.9
70°-80°	1417.0	9.7
80°-90°	79.9	0.5
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°	14615.0	100.0
0°-180°	14615.0	100.0

**Coefficient of Utilization**



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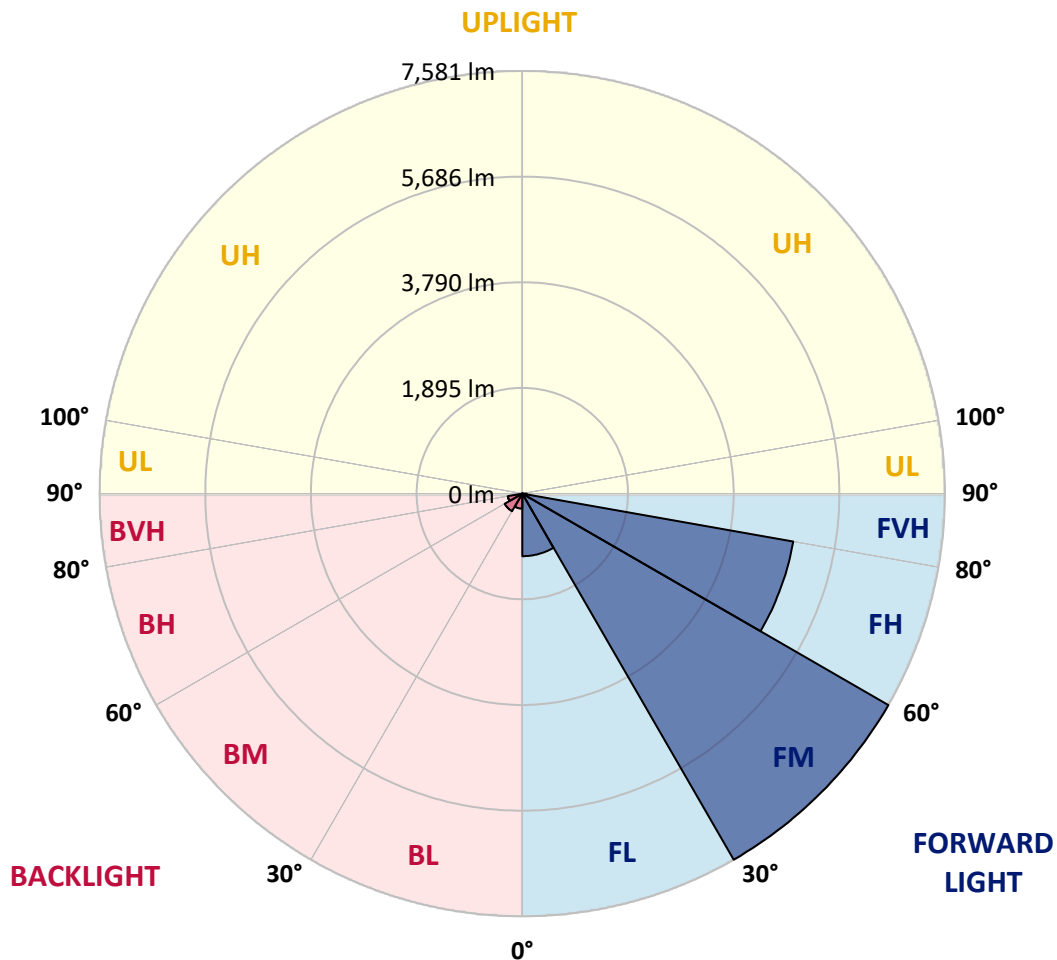
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1121.8	7.7			
FM (30°-60°)	7580.8	51.9			
FH (60°-80°)	4934.3	33.8			G2/5000
FVH (80°-90°)	75.8	0.5			G1/100
BL (0°-30°)	269.5	1.8	B1/500		
BM (30°-60°)	365.2	2.5	B1/1000		
BH (60°-80°)	263.5	1.8	B1/500		G1/500
BVH (80°-90°)	4.1	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°	75°	76°	85°
0°	1598.3	1598.3	1598.3	1598.3	1598.3	1598.3	1598.3	1598.3	1598.3	1598.3	1598.3
2.5°	1909.5	1885.8	1893.3	1882.5	1857.7	1820.9	1788.5	1742.0	1695.6	1688.0	1636.1
5°	2161.3	2154.8	2146.2	2114.8	2097.6	2041.4	1974.4	1894.4	1798.2	1780.9	1686.9
7.5°	2333.1	2329.9	2334.2	2318.0	2302.9	2252.1	2180.8	2071.6	1922.5	1912.8	1756.1
10°	2389.3	2398.0	2414.2	2440.1	2463.9	2447.7	2393.7	2257.5	2083.5	2055.4	1835.0
12.5°	2356.9	2366.6	2405.5	2474.7	2551.4	2595.7	2574.1	2474.7	2254.3	2231.6	1923.6
15°	2273.7	2285.6	2340.7	2447.7	2584.9	2710.3	2764.3	2693.0	2453.1	2416.4	2030.6
17.5°	2150.5	2167.8	2246.7	2388.3	2576.3	2792.4	2944.8	2921.0	2664.9	2630.3	2147.3
20°	2057.6	2070.5	2137.5	2299.6	2539.5	2837.8	3116.6	3183.6	2926.4	2867.0	2284.5
22.5°	2119.2	2123.5	2146.2	2243.4	2473.6	2849.7	3267.9	3457.0	3204.2	3151.2	2427.2
25°	2420.7	2377.4	2354.8	2333.1	2459.6	2838.9	3405.2	3742.3	3480.8	3424.6	2568.7
27.5°	2896.2	2876.7	2762.2	2608.7	2579.5	2852.9	3495.9	4012.5	3741.2	3680.7	2707.1
30°	3413.8	3380.3	3310.1	3085.3	2859.4	2952.4	3561.9	4275.1	4049.2	3969.3	2833.5
32.5°	3889.3	3910.9	3806.1	3574.8	3313.3	3164.2	3647.2	4561.5	4402.6	4303.2	2980.5
35°	4443.7	4486.9	4325.9	4104.3	3798.5	3546.7	3813.6	4884.6	4851.1	4725.7	3207.4
37.5°	5006.7	5032.6	4934.3	4623.1	4347.5	4033.0	4127.0	5283.3	5403.3	5296.3	3478.6
40°	5480.0	5515.7	5443.3	5166.6	4872.7	4596.0	4582.0	5717.8	6060.3	5950.1	3882.8
42.5°	5842.0	5869.1	5871.2	5675.6	5410.9	5285.5	5162.3	6272.1	6883.8	6756.3	4351.8
45°	6299.2	6338.1	6315.4	6182.5	5984.7	5962.0	5898.2	6942.2	7869.4	7708.3	4960.2
47.5°	7005.9	7031.8	6975.7	6819.0	6618.0	6653.6	6615.8	7693.2	8874.4	8736.0	5590.2
50°	7496.5	7539.8	7619.7	7682.4	7536.5	7404.7	7292.3	8394.6	9828.6	9704.3	6234.3
52.5°	7491.1	7562.5	7815.3	8130.9	8449.7	8409.7	8086.6	9169.4	10739.6	10586.1	6839.5
55°	6986.5	7124.8	7496.5	8056.3	8939.2	9379.0	9232.1	10066.3	11526.3	11422.6	7540.8
57.5°	5944.7	6029.0	6545.6	7327.9	8665.8	9835.1	10559.1	11282.1	12469.7	12421.1	8630.1
60°	3998.4	4036.3	4700.9	5668.1	7377.7	9380.1	11531.7	12752.9	13631.4	13607.7	9902.1
62.5°	2291.0	2307.2	2789.2	3605.1	5249.8	7949.3	11613.8	14567.3	15024.4	15037.4	11373.9
65°	1233.0	1241.7	1630.7	2115.9	3194.4	5665.9	10443.5	15561.5	16150.4	16175.3	12286.0
66°	1064.4	1023.4	1297.9	1803.6	2541.7	4509.6	9703.2	15525.8	16366.6	16339.6	12253.6
67.5°	809.4	846.2	1036.4	1386.5	1883.6	3206.3	8010.9	14835.3	16202.3	16118.0	11755.4
70°	579.2	594.4	738.1	988.8	1282.7	1759.3	5119.1	12321.7	14726.1	14612.7	10241.4
72.5°	373.9	390.1	523.0	715.4	927.2	960.7	2865.9	8902.5	11353.4	11337.2	7712.7
75°	266.9	282.1	345.8	512.2	697.0	594.4	1380.0	5999.8	7217.7	7169.1	4771.1
77.5°	193.4	201.0	231.3	335.0	498.2	425.8	639.8	3204.2	3593.2	3762.9	2108.4
80°	111.3	117.8	161.0	204.2	337.2	290.7	305.8	1286.0	1326.0	1262.2	659.2
82.5°	55.1	62.7	96.2	139.4	210.7	195.6	140.5	386.9	408.5	397.7	166.4
85°	13.0	16.2	54.0	91.9	102.7	87.5	68.1	113.5	140.5	137.2	63.8
87.5°	1.1	2.2	19.5	16.2	17.3	29.2	23.8	29.2	45.4	42.1	22.7
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°	1598.3	1598.3	1598.3	1598.3	1598.3	1598.3	1598.3	1598.3	1598.3	1598.3	1598.3
2.5°	1612.3	1591.8	1532.4	1474.0	1425.4	1374.6	1328.1	1301.1	1290.3	1278.4	1283.8
5°	1635.0	1585.3	1465.4	1361.6	1260.0	1173.6	1104.4	1060.1	1038.5	1035.3	1029.9
7.5°	1665.3	1579.9	1394.1	1232.0	1099.0	1002.9	924.0	860.2	840.8	823.5	809.4
10°	1702.0	1570.2	1305.4	1095.8	954.2	833.2	729.4	653.8	614.9	604.1	611.7
12.5°	1740.9	1551.8	1212.5	970.4	807.3	652.7	556.5	518.7	507.9	503.6	504.7
15°	1779.8	1529.1	1115.2	849.4	643.0	520.9	476.6	466.8	462.5	460.4	458.2
17.5°	1815.5	1492.4	1006.1	731.6	520.9	445.2	429.0	420.4	411.7	408.5	403.1
20°	1857.7	1450.2	907.8	599.8	440.9	403.1	383.6	367.4	354.5	345.8	344.7
22.5°	1897.6	1396.2	805.1	497.1	402.0	362.0	330.7	313.4	298.3	287.5	290.7
25°	1919.3	1330.3	713.2	433.3	366.3	321.0	286.4	264.8	248.6	243.1	242.1
27.5°	1919.3	1249.2	623.5	396.6	333.9	284.2	248.6	228.0	217.2	209.6	210.7
30°	1904.1	1159.5	540.3	368.5	305.8	251.8	218.3	199.9	191.3	185.9	184.8
32.5°	1892.2	1074.2	469.0	341.5	276.6	223.7	194.5	180.5	171.8	166.4	166.4
35°	1910.6	1000.7	413.9	314.5	249.6	202.1	176.1	163.2	154.5	150.2	149.1
37.5°	1959.2	933.7	371.7	285.3	224.8	183.7	163.2	148.1	139.4	134.0	131.8
40°	2079.2	895.9	340.4	258.3	201.0	168.6	148.1	134.0	123.2	117.8	116.7
42.5°	2271.5	896.9	310.1	233.4	182.6	155.6	135.1	118.9	107.0	101.6	100.5
45°	2561.2	938.0	286.4	209.6	166.4	141.6	121.0	103.7	92.9	87.5	87.5
47.5°	2908.1	1018.0	265.8	189.1	151.3	128.6	107.0	89.7	78.9	74.6	74.6
50°	3284.1	1121.7	245.3	167.5	138.3	114.5	91.9	77.8	69.2	65.9	65.9
52.5°	3667.8	1247.1	224.8	150.2	124.3	99.4	78.9	69.2	61.6	59.4	58.4
55°	4171.3	1407.0	203.2	131.8	109.1	85.4	70.2	60.5	51.9	48.6	47.5
57.5°	4946.2	1648.0	179.4	115.6	89.7	71.3	60.5	50.8	41.1	35.7	34.6
60°	5880.9	1941.9	154.5	101.6	72.4	58.4	48.6	38.9	30.3	23.8	22.7
62.5°	6756.3	2128.9	130.8	85.4	57.3	44.3	34.6	29.2	21.6	15.1	14.0
65°	7143.2	2066.2	108.1	69.2	45.4	31.3	22.7	20.5	13.0	6.5	5.4
66°	7014.6	1973.3	99.4	62.7	41.1	27.0	19.5	17.3	9.7	3.2	3.2
67.5°	6635.2	1753.9	86.5	54.0	35.7	21.6	15.1	13.0	5.4	1.1	0.0
70°	5685.3	1418.9	68.1	40.0	25.9	15.1	8.6	6.5	3.2	0.0	0.0
72.5°	4366.9	1056.9	54.0	30.3	18.4	8.6	4.3	2.2	3.2	0.0	0.0
75°	2675.7	604.1	42.1	22.7	11.9	5.4	3.2	0.0	3.2	1.1	0.0
77.5°	1187.6	271.2	28.1	15.1	8.6	4.3	2.2	0.0	2.2	1.1	0.0
80°	300.4	88.6	16.2	10.8	6.5	3.2	1.1	0.0	2.2	2.2	1.1
82.5°	82.1	32.4	11.9	8.6	5.4	3.2	1.1	0.0	2.2	2.2	2.2
85°	32.4	15.1	10.8	8.6	6.5	3.2	1.1	0.0	2.2	2.2	2.2
87.5°	15.1	10.8	10.8	9.7	7.6	3.2	1.1	0.0	2.2	1.1	2.2
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)