

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: P458762

Luminaire Tested: **GALN-SA3A-735-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458762  
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-SA3A-735-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 615mA 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: 9507 lumens  
Efficiency: N/A  
Efficacy: 102.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

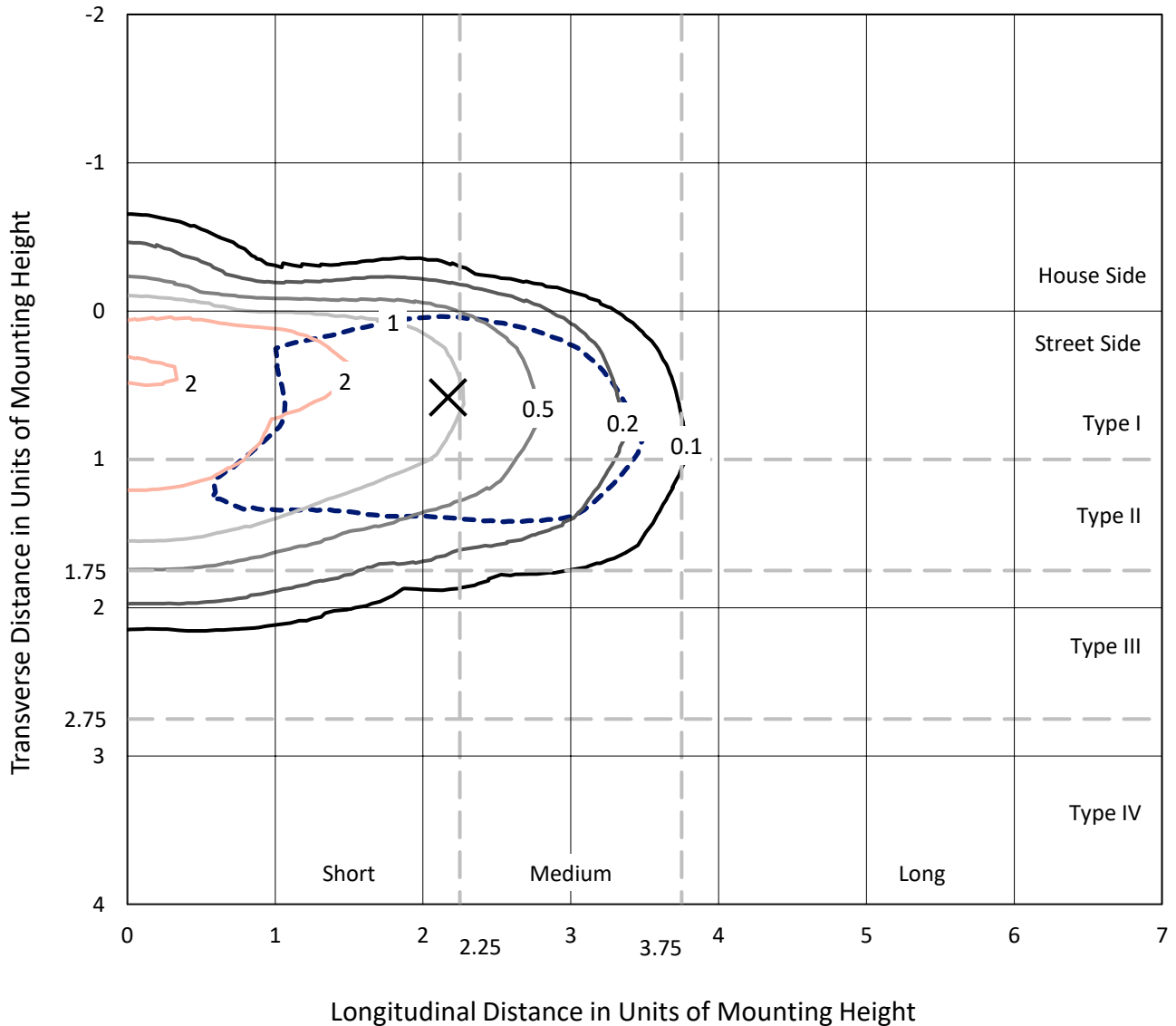
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

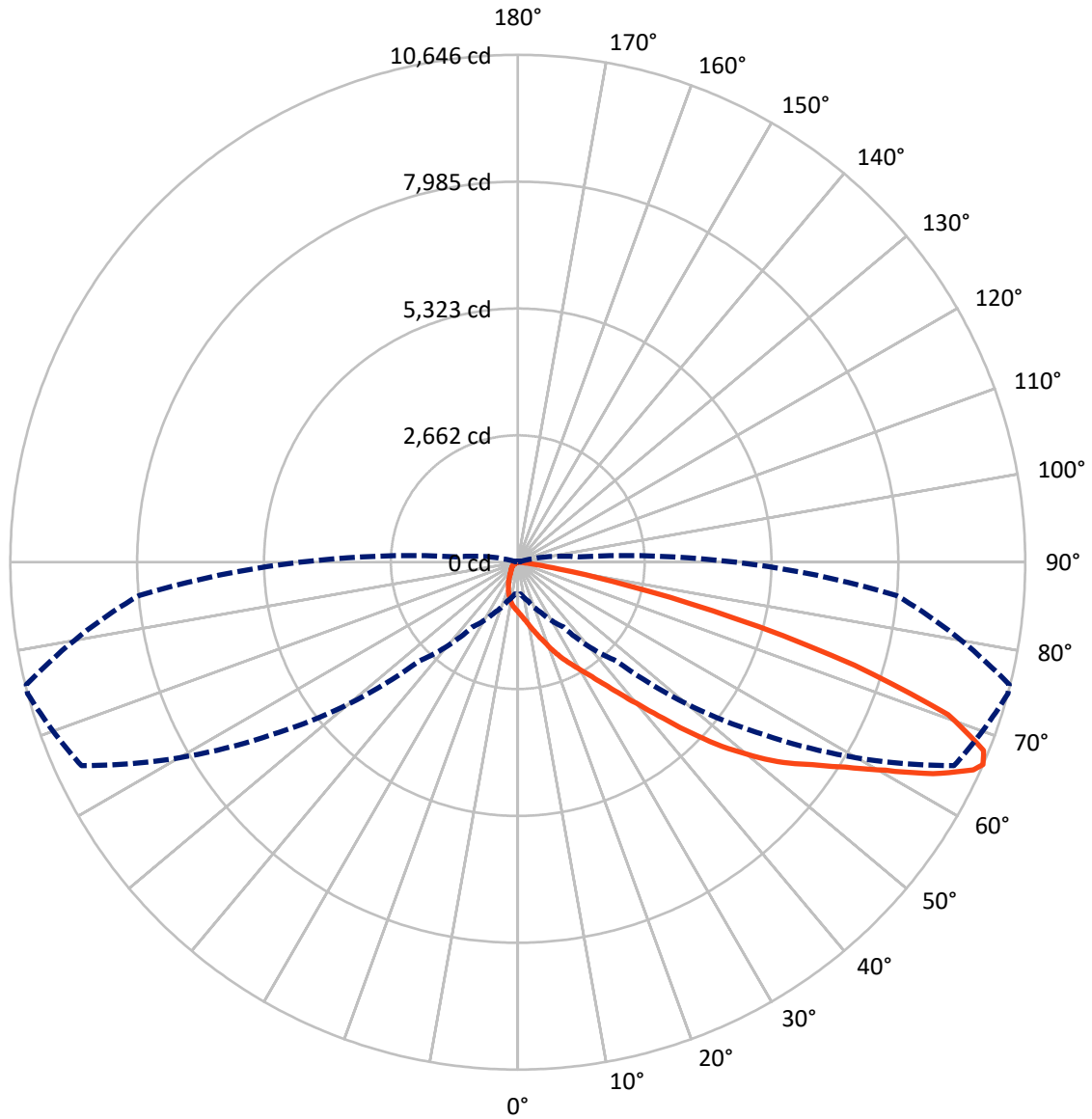
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	586.9	0.0	586.9
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	8920.1	0.0	8920.1
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	9507.0	0.0	9507.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.3	1.1
10°-20°	295.1	3.1
20°-30°	509.6	5.4
30°-40°	919.2	9.7
40°-50°	1660.6	17.5
50°-60°	2589.0	27.2
60°-70°	2459.4	25.9
70°-80°	921.7	9.7
80°-90°	52.0	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°	9507.0	100.0
0°-180°	9507.0	100.0

**Coefficient of Utilization**



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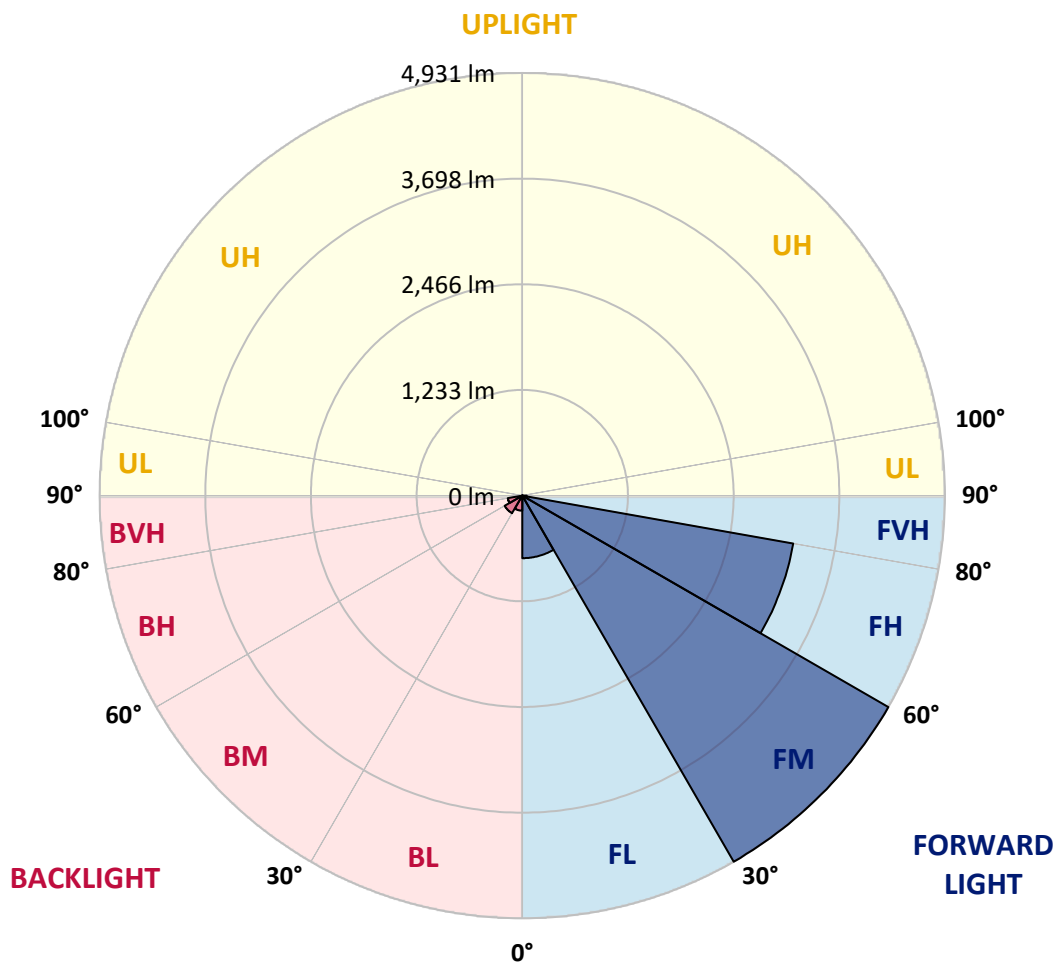
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	729.7	7.7			
FM	(30°-60°)	4931.3	51.9			
FH	(60°-80°)	3209.7	33.8			G2/5000
FVH	(80°-90°)	49.3	0.5			G1/100
BL	(0°-30°)	175.3	1.8	B1/500		
BM	(30°-60°)	237.6	2.5	B1/1000		
BH	(60°-80°)	171.4	1.8	B1/500		G1/500
BVH	(80°-90°)	2.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7
2.5°	1242.1	1226.7	1231.6	1224.6	1208.4	1184.5	1163.4	1133.2	1103.0	1098.0	1064.3
5°	1405.9	1401.7	1396.1	1375.7	1364.5	1327.9	1284.3	1232.3	1169.7	1158.5	1097.3
7.5°	1517.7	1515.6	1518.4	1507.9	1498.0	1465.0	1418.6	1347.6	1250.6	1244.2	1142.3
10°	1554.3	1559.9	1570.4	1587.3	1602.8	1592.2	1557.1	1468.5	1355.3	1337.0	1193.6
12.5°	1533.2	1539.5	1564.8	1609.8	1659.7	1688.5	1674.5	1609.8	1466.4	1451.6	1251.3
15°	1479.0	1486.8	1522.6	1592.2	1681.5	1763.0	1798.2	1751.8	1595.7	1571.8	1320.9
17.5°	1398.9	1410.1	1461.5	1553.6	1675.9	1816.5	1915.6	1900.1	1733.5	1711.0	1396.8
20°	1338.4	1346.9	1390.5	1495.9	1652.0	1846.0	2027.3	2070.9	1903.6	1865.0	1486.1
22.5°	1378.5	1381.3	1396.1	1459.4	1609.1	1853.7	2125.8	2248.8	2084.3	2049.8	1578.9
25°	1574.6	1546.5	1531.8	1517.7	1599.9	1846.7	2215.0	2434.4	2264.2	2227.7	1670.9
27.5°	1883.9	1871.3	1796.8	1697.0	1678.0	1855.8	2274.1	2610.1	2433.7	2394.3	1760.9
30°	2220.7	2198.9	2153.2	2007.0	1860.0	1920.5	2317.0	2780.9	2634.0	2582.0	1843.2
32.5°	2530.0	2544.0	2475.8	2325.4	2155.3	2058.3	2372.5	2967.2	2863.9	2799.2	1938.8
35°	2890.6	2918.7	2814.0	2669.9	2470.9	2307.1	2480.8	3177.4	3155.6	3074.1	2086.4
37.5°	3256.8	3273.7	3209.7	3007.3	2828.0	2623.5	2684.6	3436.8	3514.8	3445.2	2262.8
40°	3564.7	3587.9	3540.8	3360.9	3169.7	2989.7	2980.6	3719.4	3942.2	3870.5	2525.8
42.5°	3800.2	3817.8	3819.2	3692.0	3519.7	3438.2	3358.1	4080.0	4477.9	4394.9	2830.8
45°	4097.6	4122.9	4108.1	4021.7	3893.0	3878.3	3836.8	4515.8	5119.0	5014.2	3226.6
47.5°	4557.3	4574.2	4537.6	4435.7	4305.0	4328.2	4303.5	5004.4	5772.7	5682.8	3636.4
50°	4876.5	4904.6	4956.6	4997.4	4902.5	4816.7	4743.6	5460.6	6393.5	6312.6	4055.4
52.5°	4872.9	4919.3	5083.8	5289.1	5496.5	5470.5	5260.3	5964.7	6986.1	6886.2	4449.1
55°	4544.7	4634.6	4876.5	5240.6	5814.9	6101.0	6005.4	6548.1	7497.8	7430.3	4905.3
57.5°	3867.0	3921.8	4257.9	4766.8	5637.1	6397.7	6868.7	7338.9	8111.5	8079.9	5613.9
60°	2601.0	2625.6	3057.9	3687.0	4799.1	6101.7	7501.3	8295.7	8867.2	8851.7	6441.3
62.5°	1490.3	1500.8	1814.4	2345.1	3415.0	5171.0	7554.8	9476.0	9773.3	9781.8	7398.7
65°	802.1	807.7	1060.8	1376.4	2078.0	3685.6	6793.4	10122.7	10505.8	10522.0	7992.0
66°	692.4	665.7	844.3	1173.2	1653.4	2933.5	6311.9	10099.5	10646.4	10628.8	7970.9
67.5°	526.5	550.4	674.1	901.9	1225.3	2085.7	5211.1	9650.3	10539.5	10484.7	7646.8
70°	376.8	386.6	480.1	643.2	834.4	1144.4	3329.9	8015.2	9579.3	9505.5	6662.0
72.5°	243.2	253.8	340.2	465.4	603.1	624.9	1864.3	5791.0	7385.3	7374.8	5017.1
75°	173.6	183.5	224.9	333.2	453.4	386.6	897.7	3902.9	4695.1	4663.5	3103.6
77.5°	125.8	130.8	150.4	217.9	324.1	277.0	416.2	2084.3	2337.4	2447.7	1371.5
80°	72.4	76.6	104.7	132.9	219.3	189.1	198.9	836.5	862.5	821.1	428.8
82.5°	35.9	40.8	62.6	90.7	137.1	127.2	91.4	251.7	265.7	258.7	108.3
85°	8.4	10.5	35.1	59.8	66.8	56.9	44.3	73.8	91.4	89.3	41.5
87.5°	0.7	1.4	12.7	10.5	11.2	19.0	15.5	19.0	29.5	27.4	14.8
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°	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7	1039.7
2.5°	1048.8	1035.5	996.8	958.8	927.2	894.2	863.9	846.4	839.3	831.6	835.1
5°	1063.6	1031.2	953.2	885.7	819.7	763.4	718.4	689.6	675.5	673.4	669.9
7.5°	1083.3	1027.7	906.8	801.4	714.9	652.4	601.0	559.6	546.9	535.7	526.5
10°	1107.2	1021.4	849.2	712.8	620.7	542.0	474.5	425.3	400.0	393.0	397.9
12.5°	1132.5	1009.5	788.7	631.3	525.1	424.6	362.0	337.4	330.4	327.6	328.3
15°	1157.8	994.7	725.5	552.5	418.3	338.8	310.0	303.7	300.9	299.5	298.1
17.5°	1181.0	970.8	654.5	475.9	338.8	289.6	279.1	273.5	267.8	265.7	262.2
20°	1208.4	943.4	590.5	390.1	286.8	262.2	249.6	239.0	230.6	224.9	224.2
22.5°	1234.4	908.2	523.7	323.4	261.5	235.5	215.1	203.9	194.0	187.0	189.1
25°	1248.5	865.3	464.0	281.9	238.3	208.8	186.3	172.2	161.7	158.2	157.5
27.5°	1248.5	812.6	405.6	258.0	217.2	184.9	161.7	148.3	141.3	136.4	137.1
30°	1238.6	754.3	351.5	239.7	198.9	163.8	142.0	130.0	124.4	120.9	120.2
32.5°	1230.9	698.7	305.1	222.1	180.0	145.5	126.5	117.4	111.8	108.3	108.3
35°	1242.8	650.9	269.2	204.6	162.4	131.5	114.6	106.1	100.5	97.7	97.0
37.5°	1274.5	607.4	241.8	185.6	146.2	119.5	106.1	96.3	90.7	87.2	85.8
40°	1352.5	582.8	221.4	168.0	130.8	109.7	96.3	87.2	80.1	76.6	75.9
42.5°	1477.6	583.5	201.8	151.8	118.8	101.2	87.9	77.3	69.6	66.1	65.4
45°	1666.0	610.2	186.3	136.4	108.3	92.1	78.7	67.5	60.5	56.9	56.9
47.5°	1891.7	662.2	172.9	123.0	98.4	83.7	69.6	58.3	51.3	48.5	48.5
50°	2136.3	729.7	159.6	109.0	90.0	74.5	59.8	50.6	45.0	42.9	42.9
52.5°	2385.9	811.2	146.2	97.7	80.8	64.7	51.3	45.0	40.1	38.7	38.0
55°	2713.4	915.3	132.2	85.8	71.0	55.5	45.7	39.4	33.7	31.6	30.9
57.5°	3217.5	1072.0	116.7	75.2	58.3	46.4	39.4	33.0	26.7	23.2	22.5
60°	3825.5	1263.2	100.5	66.1	47.1	38.0	31.6	25.3	19.7	15.5	14.8
62.5°	4394.9	1384.8	85.1	55.5	37.3	28.8	22.5	19.0	14.1	9.8	9.1
65°	4646.6	1344.1	70.3	45.0	29.5	20.4	14.8	13.4	8.4	4.2	3.5
66°	4562.9	1283.6	64.7	40.8	26.7	17.6	12.7	11.2	6.3	2.1	2.1
67.5°	4316.2	1140.9	56.2	35.1	23.2	14.1	9.8	8.4	3.5	0.7	0.0
70°	3698.3	923.0	44.3	26.0	16.9	9.8	5.6	4.2	2.1	0.0	0.0
72.5°	2840.7	687.5	35.1	19.7	12.0	5.6	2.8	1.4	2.1	0.0	0.0
75°	1740.5	393.0	27.4	14.8	7.7	3.5	2.1	0.0	2.1	0.7	0.0
77.5°	772.6	176.4	18.3	9.8	5.6	2.8	1.4	0.0	1.4	0.7	0.0
80°	195.4	57.6	10.5	7.0	4.2	2.1	0.7	0.0	1.4	1.4	0.7
82.5°	53.4	21.1	7.7	5.6	3.5	2.1	0.7	0.0	1.4	1.4	1.4
85°	21.1	9.8	7.0	5.6	4.2	2.1	0.7	0.0	1.4	1.4	1.4
87.5°	9.8	7.0	7.0	6.3	4.9	2.1	0.7	0.0	1.4	0.7	1.4
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)