

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: P452991

Luminaire Tested: **GALN-SA4A-727-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452991
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-SA4A-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 11310 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

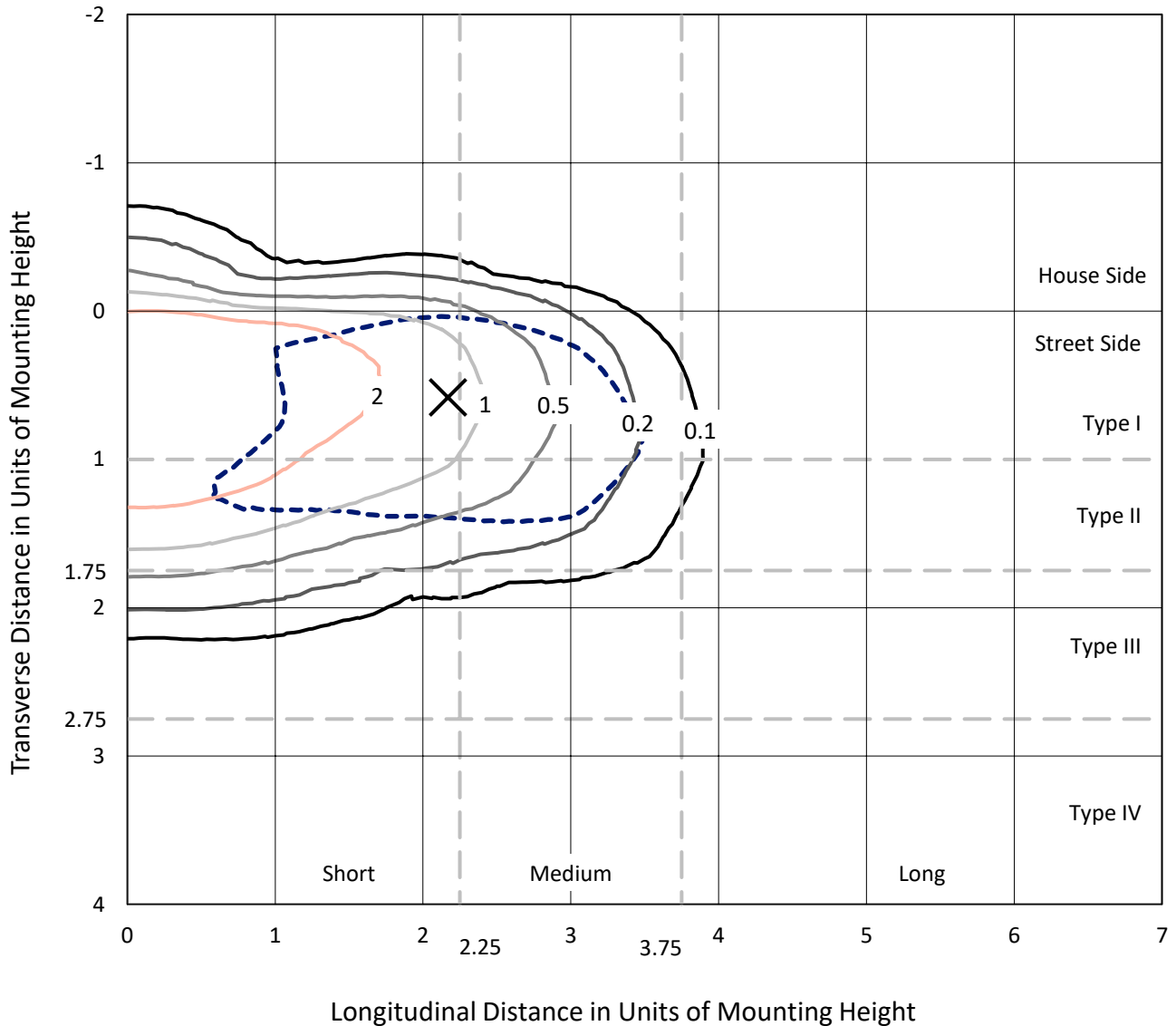
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

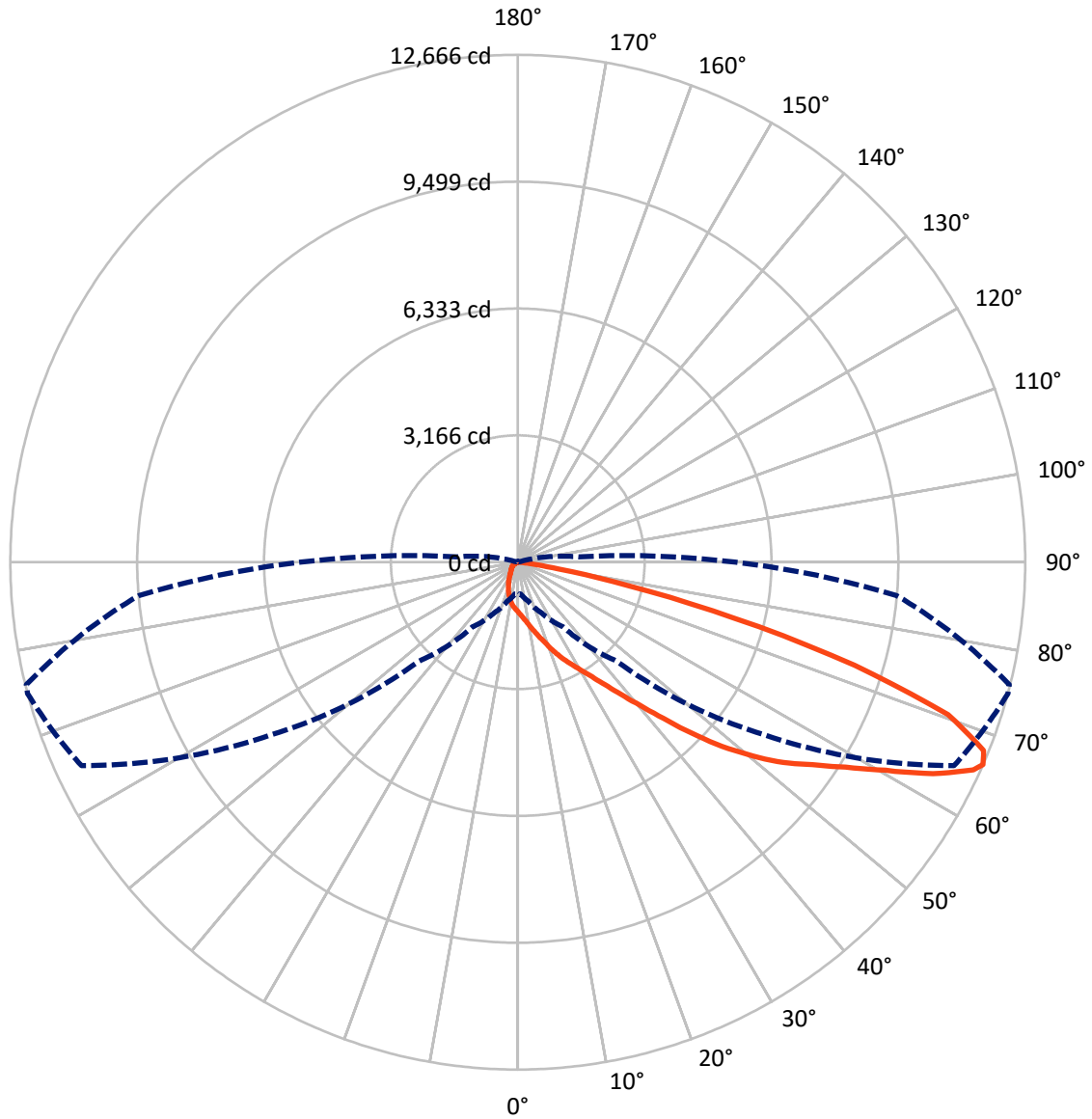
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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
House Side	Lumens	698.2	0.0	698.2
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	10611.8	0.0	10611.8
	% Fixture	93.8	0.0	93.8
Total	Lumens	11310.0	0.0	11310.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.3	1.1
10°-20°	351.1	3.1
20°-30°	606.3	5.4
30°-40°	1093.6	9.7
40°-50°	1975.6	17.5
50°-60°	3079.9	27.2
60°-70°	2925.8	25.9
70°-80°	1096.5	9.7
80°-90°	61.9	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°	11310.0	100.0
0°-180°	11310.0	100.0

Coefficient of Utilization

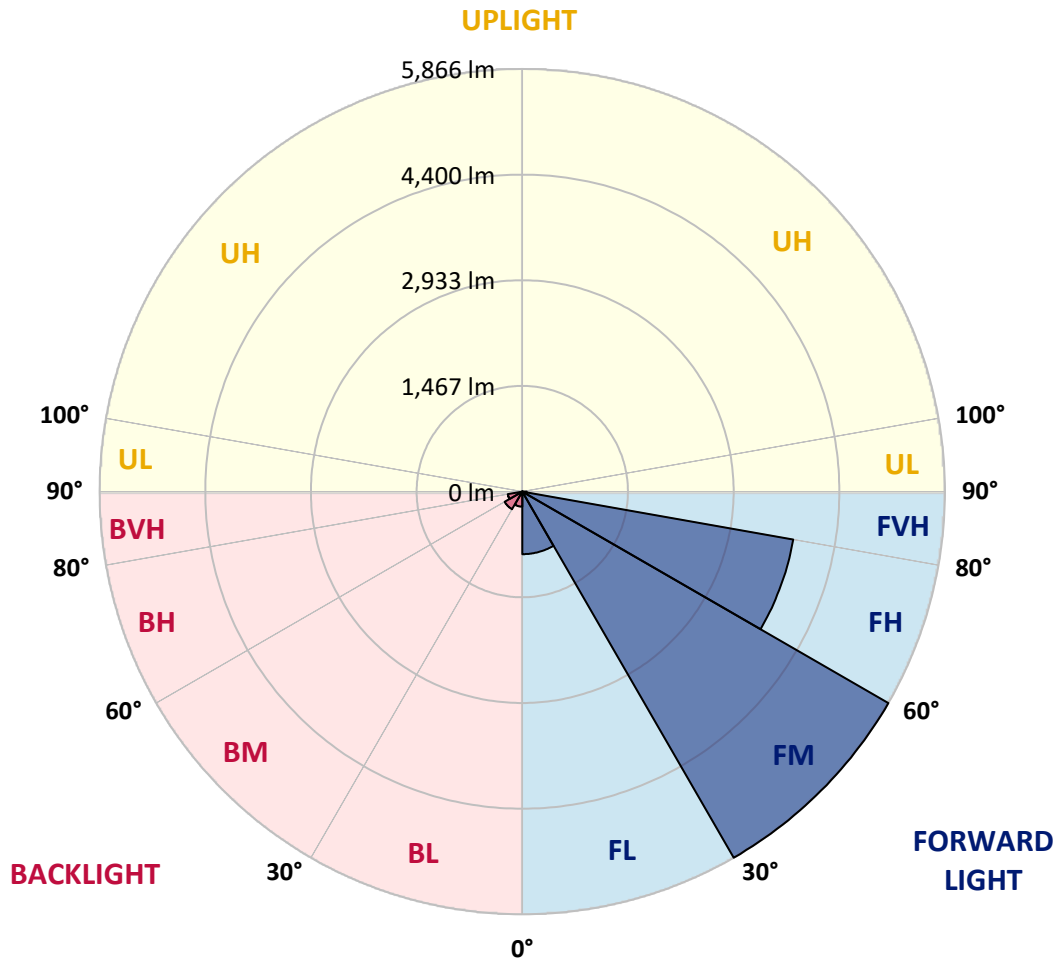


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	868.1	7.7			
FM (30°-60°)	5866.5	51.9			
FH (60°-80°)	3818.5	33.8			G2/5000
FVH (80°-90°)	58.7	0.5			G1/100
BL (0°-30°)	208.5	1.8	B1/500		
BM (30°-60°)	282.6	2.5	B1/1000		
BH (60°-80°)	203.9	1.8	B1/500		G1/500
BVH (80°-90°)	3.2	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°	1236.9	1236.9	1236.9	1236.9	1236.9	1236.9	1236.9	1236.9	1236.9	1236.9	1236.9
2.5°	1477.7	1459.3	1465.2	1456.8	1437.6	1409.1	1384.0	1348.1	1312.1	1306.3	1266.1
5°	1672.6	1667.5	1660.9	1636.6	1623.2	1579.7	1527.9	1466.0	1391.6	1378.2	1305.4
7.5°	1805.5	1803.0	1806.4	1793.8	1782.1	1742.8	1687.6	1603.2	1487.7	1480.2	1359.0
10°	1849.0	1855.7	1868.3	1888.3	1906.7	1894.2	1852.4	1747.0	1612.4	1590.6	1420.0
12.5°	1823.9	1831.5	1861.6	1915.1	1974.5	2008.7	1992.0	1915.1	1744.5	1726.9	1488.6
15°	1759.5	1768.7	1811.4	1894.2	2000.4	2097.4	2139.2	2084.0	1898.4	1869.9	1571.4
17.5°	1664.2	1677.6	1738.6	1848.2	1993.7	2161.0	2278.9	2260.5	2062.3	2035.5	1661.7
20°	1592.3	1602.3	1654.2	1779.6	1965.3	2196.1	2411.8	2463.7	2264.7	2218.7	1767.9
22.5°	1639.9	1643.3	1660.9	1736.1	1914.2	2205.3	2528.9	2675.3	2479.6	2438.6	1878.3
25°	1873.3	1839.8	1822.3	1805.5	1903.4	2196.9	2635.1	2896.0	2693.7	2650.2	1987.8
27.5°	2241.2	2226.2	2137.5	2018.8	1996.2	2207.8	2705.4	3105.1	2895.2	2848.4	2094.9
30°	2641.8	2615.9	2561.5	2387.6	2212.8	2284.7	2756.4	3308.3	3133.5	3071.7	2192.7
32.5°	3009.8	3026.5	2945.4	2766.4	2564.0	2448.6	2822.4	3529.9	3407.0	3330.1	2306.5
35°	3438.8	3472.2	3347.6	3176.2	2939.5	2744.7	2951.2	3780.0	3754.1	3657.1	2482.1
37.5°	3874.5	3894.6	3818.5	3577.6	3364.4	3121.0	3193.8	4088.6	4181.4	4098.6	2692.0
40°	4240.8	4268.4	4212.3	3998.3	3770.8	3556.7	3545.8	4424.8	4689.9	4604.6	3004.8
42.5°	4520.9	4541.8	4543.5	4392.2	4187.3	4090.3	3994.9	4853.8	5327.1	5228.4	3367.7
45°	4874.7	4904.8	4887.2	4784.4	4631.3	4613.8	4564.4	5372.3	6089.8	5965.2	3838.5
47.5°	5421.6	5441.7	5398.2	5276.9	5121.4	5149.0	5119.7	5953.5	6867.5	6760.5	4326.1
50°	5801.3	5834.7	5896.6	5945.1	5832.2	5730.2	5643.2	6496.2	7606.0	7509.8	4824.5
52.5°	5797.1	5852.3	6048.0	6292.2	6538.9	6507.9	6257.9	7095.8	8311.0	8192.2	5292.8
55°	5406.6	5513.6	5801.3	6234.5	6917.7	7258.1	7144.4	7790.0	8919.8	8839.5	5835.6
57.5°	4600.4	4665.6	5065.4	5670.8	6706.1	7611.0	8171.3	8730.8	9649.9	9612.2	6678.5
60°	3094.2	3123.5	3637.8	4386.3	5709.3	7258.9	8924.0	9869.0	10548.9	10530.5	7662.8
62.5°	1772.9	1785.5	2158.4	2789.8	4062.7	6151.7	8987.5	11273.1	11626.8	11636.9	8801.9
65°	954.2	960.9	1261.9	1637.4	2472.0	4384.6	8081.8	12042.5	12498.2	12517.5	9507.7
66°	823.7	792.0	1004.4	1395.8	1966.9	3489.8	7509.0	12014.9	12665.5	12644.6	9482.6
67.5°	626.4	654.8	802.0	1072.9	1457.6	2481.2	6199.4	11480.5	12538.4	12473.1	9097.1
70°	448.2	460.0	571.2	765.2	992.7	1361.5	3961.5	9535.3	11396.0	11308.2	7925.4
72.5°	289.4	301.9	404.8	553.6	717.5	743.5	2217.8	6889.3	8786.0	8773.4	5968.5
75°	206.6	218.3	267.6	396.4	539.4	460.0	1067.9	4643.0	5585.5	5547.9	3692.2
77.5°	149.7	155.5	179.0	259.2	385.5	329.5	495.1	2479.6	2780.6	2911.9	1631.6
80°	86.1	91.2	124.6	158.1	260.9	225.0	236.7	995.2	1026.1	976.8	510.1
82.5°	42.7	48.5	74.4	107.9	163.1	151.4	108.7	299.4	316.1	307.8	128.8
85°	10.0	12.5	41.8	71.1	79.4	67.7	52.7	87.8	108.7	106.2	49.3
87.5°	0.8	1.7	15.1	12.5	13.4	22.6	18.4	22.6	35.1	32.6	17.6
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°	1236.9	1236.9	1236.9	1236.9	1236.9	1236.9	1236.9	1236.9	1236.9	1236.9	1236.9
2.5°	1247.7	1231.8	1185.8	1140.7	1103.1	1063.8	1027.8	1006.9	998.5	989.3	993.5
5°	1265.3	1226.8	1134.0	1053.7	975.1	908.2	854.7	820.4	803.7	801.2	797.0
7.5°	1288.7	1222.6	1078.8	953.4	850.5	776.1	715.0	665.7	650.6	637.2	626.4
10°	1317.1	1215.1	1010.2	848.0	738.4	644.8	564.5	506.0	475.8	467.5	473.3
12.5°	1347.2	1200.9	938.3	751.0	624.7	505.1	430.7	401.4	393.1	389.7	390.5
15°	1377.4	1183.3	863.0	657.3	497.6	403.1	368.8	361.3	357.9	356.3	354.6
17.5°	1405.0	1154.9	778.6	566.2	403.1	344.5	332.0	325.3	318.6	316.1	311.9
20°	1437.6	1122.3	702.5	464.1	341.2	311.9	296.9	284.3	274.3	267.6	266.8
22.5°	1468.5	1080.5	623.0	384.7	311.1	280.2	255.9	242.5	230.8	222.5	225.0
25°	1485.2	1029.5	551.9	335.3	283.5	248.4	221.6	204.9	192.3	188.2	187.3
27.5°	1485.2	966.7	482.5	306.9	258.4	219.9	192.3	176.5	168.1	162.2	163.1
30°	1473.5	897.3	418.1	285.2	236.7	194.9	168.9	154.7	148.0	143.8	143.0
32.5°	1464.3	831.3	362.9	264.3	214.1	173.1	150.5	139.7	133.0	128.8	128.8
35°	1478.5	774.4	320.3	243.4	193.2	156.4	136.3	126.3	119.6	116.2	115.4
37.5°	1516.2	722.5	287.7	220.8	173.9	142.2	126.3	114.6	107.9	103.7	102.0
40°	1609.0	693.3	263.4	199.9	155.5	130.5	114.6	103.7	95.3	91.2	90.3
42.5°	1757.9	694.1	240.0	180.6	141.3	120.4	104.5	92.0	82.8	78.6	77.8
45°	1982.0	725.9	221.6	162.2	128.8	109.6	93.7	80.3	71.9	67.7	67.7
47.5°	2250.4	787.8	205.7	146.3	117.1	99.5	82.8	69.4	61.0	57.7	57.7
50°	2541.5	868.1	189.8	129.6	107.0	88.6	71.1	60.2	53.5	51.0	51.0
52.5°	2838.3	965.1	173.9	116.2	96.2	76.9	61.0	53.5	47.7	46.0	45.2
55°	3228.0	1088.8	157.2	102.0	84.5	66.1	54.4	46.8	40.1	37.6	36.8
57.5°	3827.7	1275.3	138.8	89.5	69.4	55.2	46.8	39.3	31.8	27.6	26.8
60°	4551.0	1502.8	119.6	78.6	56.0	45.2	37.6	30.1	23.4	18.4	17.6
62.5°	5228.4	1647.5	101.2	66.1	44.3	34.3	26.8	22.6	16.7	11.7	10.9
65°	5527.8	1599.0	83.6	53.5	35.1	24.3	17.6	15.9	10.0	5.0	4.2
66°	5428.3	1527.0	76.9	48.5	31.8	20.9	15.1	13.4	7.5	2.5	2.5
67.5°	5134.8	1357.3	66.9	41.8	27.6	16.7	11.7	10.0	4.2	0.8	0.0
70°	4399.7	1098.0	52.7	30.9	20.1	11.7	6.7	5.0	2.5	0.0	0.0
72.5°	3379.4	817.9	41.8	23.4	14.2	6.7	3.3	1.7	2.5	0.0	0.0
75°	2070.6	467.5	32.6	17.6	9.2	4.2	2.5	0.0	2.5	0.8	0.0
77.5°	919.1	209.9	21.7	11.7	6.7	3.3	1.7	0.0	1.7	0.8	0.0
80°	232.5	68.6	12.5	8.4	5.0	2.5	0.8	0.0	1.7	1.7	0.8
82.5°	63.6	25.1	9.2	6.7	4.2	2.5	0.8	0.0	1.7	1.7	1.7
85°	25.1	11.7	8.4	6.7	5.0	2.5	0.8	0.0	1.7	1.7	1.7
87.5°	11.7	8.4	8.4	7.5	5.9	2.5	0.8	0.0	1.7	0.8	1.7
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)