

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: P452069

Luminaire Tested: **GALN-SA3A-727-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452069  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3A-727-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8939 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

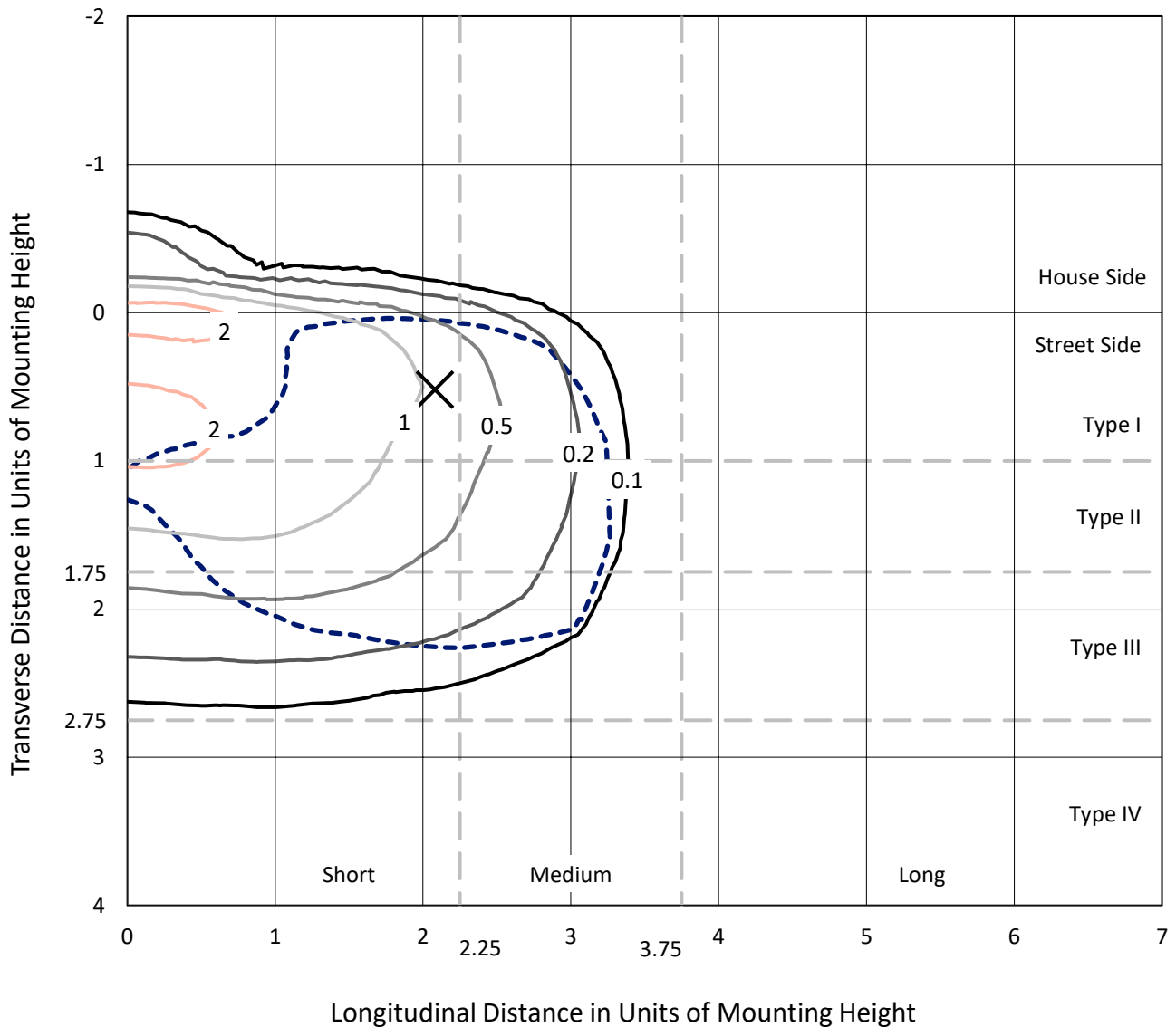
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

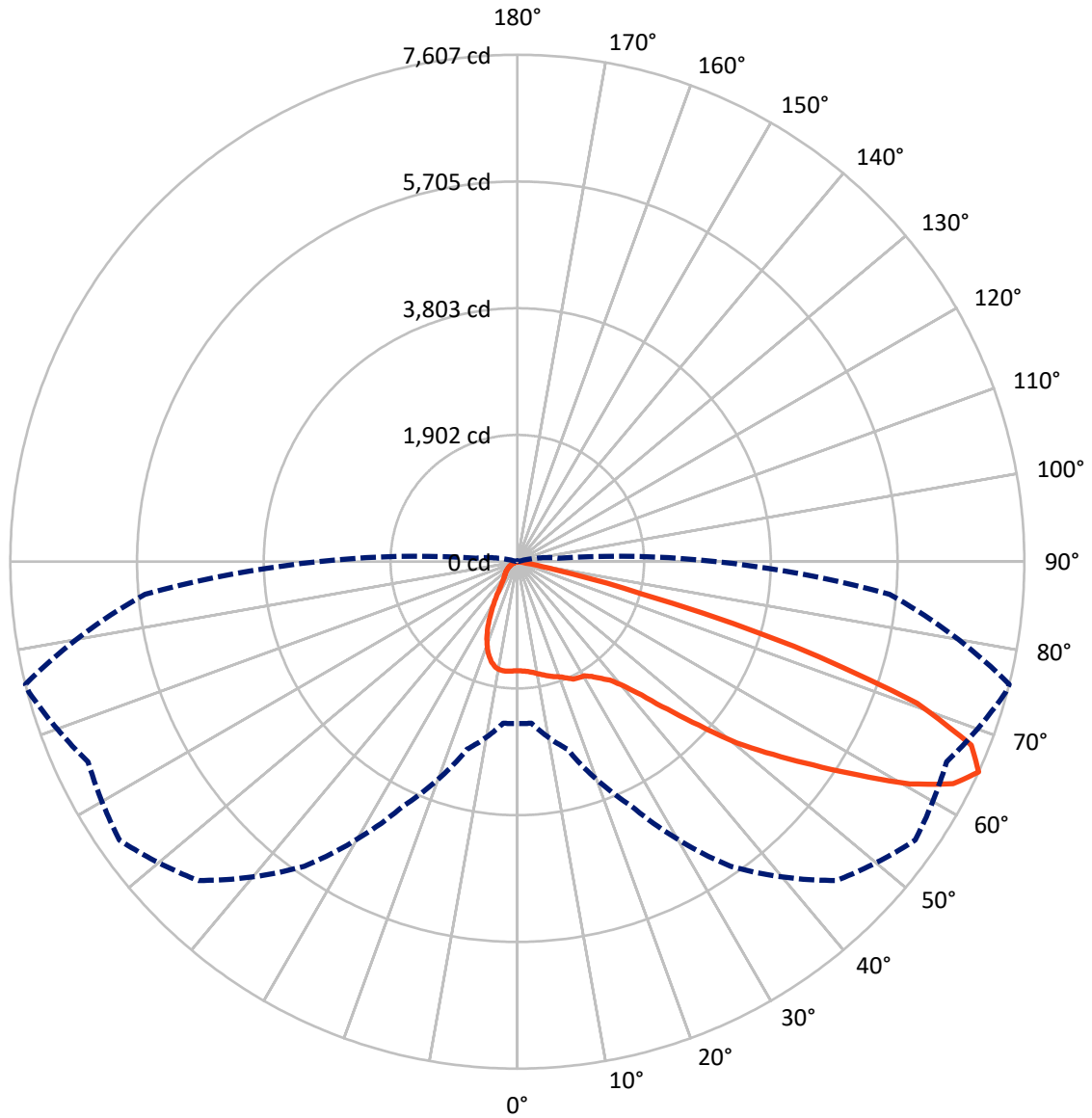
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	645.6	0.0	645.6
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	8293.4	0.0	8293.4
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	8939.0	0.0	8939.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.7	1.5
10°-20°	299.9	3.4
20°-30°	483.3	5.4
30°-40°	840.4	9.4
40°-50°	1388.6	15.5
50°-60°	2145.2	24.0
60°-70°	2619.5	29.3
70°-80°	994.2	11.1
80°-90°	33.2	0.4
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°	8939.0	100.0
0°-180°	8939.0	100.0

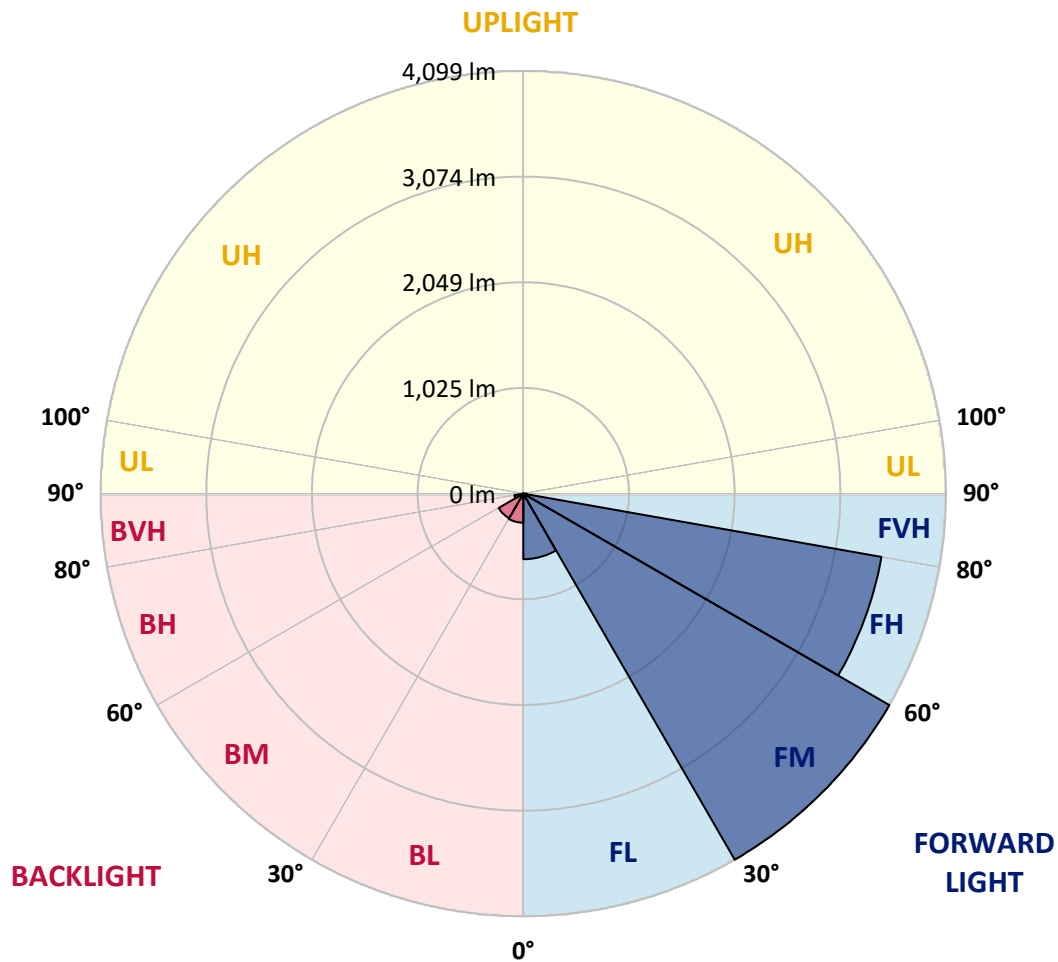


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	635.9	7.1			
FM (30°-60°)	4098.7	45.9			
FH (60°-80°)	3526.1	39.4			G2/5000
FVH (80°-90°)	32.7	0.4			G1/100
BL (0°-30°)	282.0	3.2	B1/500		
BM (30°-60°)	275.5	3.1	B1/1000		
BH (60°-80°)	87.6	1.0	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1635.2	1635.2	1635.2	1635.2	1635.2	1635.2	1635.2	1635.2	1635.2	1635.2	1635.2
2.5°	1562.6	1563.3	1567.1	1576.5	1591.1	1603.0	1613.1	1629.5	1640.9	1642.2	1646.0
5°	1454.7	1447.2	1454.7	1479.3	1501.4	1534.9	1575.9	1616.9	1653.5	1656.1	1673.7
7.5°	1333.6	1339.9	1351.9	1377.1	1418.8	1469.9	1529.2	1602.4	1671.8	1678.1	1712.9
10°	1210.5	1224.4	1243.9	1282.4	1340.5	1406.8	1487.5	1592.3	1700.9	1709.7	1769.7
12.5°	1096.9	1103.2	1127.2	1178.9	1250.9	1344.3	1456.0	1586.6	1733.1	1743.8	1830.2
15°	1009.8	1018.0	1038.8	1085.5	1165.7	1285.6	1430.1	1584.7	1764.6	1779.8	1890.8
17.5°	993.4	998.4	1007.3	1038.8	1108.9	1238.9	1406.8	1584.1	1794.9	1813.2	1947.0
20°	1060.9	1056.5	1047.7	1044.5	1083.0	1202.9	1389.7	1589.2	1823.9	1844.8	2006.3
22.5°	1230.1	1235.7	1184.0	1122.8	1110.1	1197.2	1387.2	1613.1	1870.0	1894.6	2072.6
25°	1589.2	1545.6	1464.8	1318.4	1208.0	1231.9	1415.6	1669.9	1923.6	1950.8	2132.5
27.5°	1986.1	1972.9	1847.3	1606.2	1400.5	1305.2	1466.1	1713.5	1941.3	1969.1	2166.6
30°	2376.2	2391.9	2248.0	1981.7	1680.0	1440.8	1513.4	1729.9	1957.1	1986.1	2210.2
32.5°	2737.8	2756.7	2630.5	2366.7	2009.5	1675.6	1594.8	1793.6	2023.4	2053.0	2282.8
35°	3022.4	3025.0	2929.7	2719.5	2369.2	1960.9	1770.9	1905.3	2113.0	2147.7	2359.8
37.5°	3283.7	3279.9	3168.2	2987.1	2669.0	2244.3	1992.4	2034.1	2215.2	2251.2	2470.8
40°	3477.5	3480.0	3444.0	3273.6	2948.6	2506.2	2167.9	2154.6	2386.9	2443.1	2632.4
42.5°	3606.8	3630.2	3647.9	3561.4	3300.1	2828.7	2437.4	2412.8	2684.8	2731.5	2860.9
45°	3711.6	3753.3	3841.6	3837.2	3637.8	3224.4	2807.2	2756.7	3107.0	3156.9	3151.8
47.5°	3788.0	3830.3	3976.7	4065.0	3955.2	3608.1	3272.4	3228.8	3611.3	3665.5	3473.0
50°	3827.1	3877.6	4064.4	4235.4	4203.3	3977.9	3802.5	3805.0	4220.3	4272.7	3845.4
52.5°	3735.6	3801.2	4111.1	4419.1	4481.6	4332.0	4299.2	4382.5	4762.4	4807.2	4181.8
55°	3443.4	3526.1	4047.4	4575.6	4804.1	4749.8	4863.4	4990.3	5355.0	5384.1	4527.0
57.5°	3258.5	3346.2	3859.3	4708.8	5191.6	5274.9	5454.8	5547.5	5966.6	6040.4	4923.4
60°	3102.6	3171.4	3704.7	4737.2	5585.4	5917.4	6092.2	6188.1	6721.4	6769.4	5359.5
62.5°	2843.2	2922.1	3443.4	4539.0	5783.6	6431.7	6794.0	6751.1	7305.2	7338.6	5627.1
65°	2426.0	2433.0	2913.2	4041.1	5579.1	6765.6	7286.9	7107.0	7584.2	7606.9	5606.2
67.5°	1810.7	1877.6	2241.1	3176.4	4712.6	6480.3	7446.6	7116.5	7408.1	7345.0	5161.3
70°	1166.3	1217.4	1519.1	2202.6	3397.9	5408.1	6917.1	6628.6	6501.8	6361.7	4224.7
72.5°	538.3	604.0	902.5	1258.5	2015.2	3852.3	5615.1	5385.3	4679.7	4333.9	2685.4
75°	234.8	251.2	445.6	663.9	944.8	2037.3	3702.1	3343.0	2113.6	1930.6	1074.8
77.5°	143.3	154.0	233.5	356.0	371.1	776.3	1994.3	1458.5	653.2	576.2	291.6
80°	97.2	109.2	169.8	186.2	126.9	216.5	748.5	389.4	131.9	126.2	62.5
82.5°	47.3	60.0	125.6	104.1	54.9	69.4	217.7	83.3	38.5	36.0	22.1
85°	6.9	12.0	70.7	68.2	24.6	16.4	38.5	20.8	13.3	12.6	10.1
87.5°	0.0	0.0	24.0	10.7	2.5	2.5	4.4	4.4	5.0	4.4	5.0
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°	1635.2	1635.2	1635.2	1635.2	1635.2	1635.2	1635.2	1635.2	1635.2	1635.2	1635.2
2.5°	1647.9	1651.0	1639.0	1622.0	1603.7	1585.4	1559.5	1536.1	1522.3	1530.5	1510.3
5°	1677.5	1675.0	1643.4	1591.7	1522.9	1440.2	1358.2	1288.1	1265.4	1231.3	1227.5
7.5°	1718.5	1711.6	1644.7	1526.0	1370.8	1215.5	1064.1	963.7	906.3	857.7	859.0
10°	1776.0	1755.8	1630.2	1410.6	1154.9	920.8	727.7	595.1	537.7	519.4	504.9
12.5°	1835.3	1796.2	1589.8	1254.7	899.3	629.2	442.4	361.6	326.3	314.9	313.7
15°	1888.3	1826.5	1519.1	1067.2	653.8	402.0	301.7	275.2	270.7	271.4	270.7
17.5°	1940.7	1850.4	1421.3	868.4	444.3	288.4	259.4	253.1	255.0	257.5	256.9
20°	1984.2	1855.5	1296.3	662.7	314.3	253.1	243.6	242.3	244.2	246.1	246.1
22.5°	2031.6	1859.3	1148.0	458.8	256.9	235.4	230.4	230.4	232.9	235.4	236.0
25°	2066.9	1838.4	970.7	329.4	226.6	218.4	215.8	216.5	219.0	220.3	219.6
27.5°	2072.6	1779.8	782.6	252.4	205.7	197.5	195.0	197.5	194.4	196.3	195.0
30°	2077.6	1705.3	592.0	212.7	186.8	174.2	170.4	166.6	164.1	160.9	160.3
32.5°	2093.4	1617.6	432.3	191.2	169.1	155.3	146.4	135.7	127.5	125.0	124.3
35°	2100.4	1512.2	317.5	174.2	153.4	138.2	122.4	107.3	95.3	90.9	94.0
37.5°	2126.9	1409.9	246.1	161.6	139.5	120.5	100.3	81.4	70.1	67.5	68.8
40°	2181.1	1298.8	206.4	150.8	127.5	104.1	79.5	61.2	53.6	51.1	50.5
42.5°	2268.2	1188.4	183.7	140.7	115.5	87.7	62.5	48.0	41.7	39.8	39.8
45°	2374.3	1082.4	167.9	130.0	102.9	70.7	49.2	38.5	34.7	33.4	33.4
47.5°	2513.7	989.6	154.6	119.3	89.0	56.2	39.8	33.4	30.9	31.6	32.2
50°	2655.1	920.8	140.1	107.3	73.2	46.1	34.1	29.7	29.0	29.7	29.7
52.5°	2761.8	880.4	120.5	90.9	57.4	38.5	30.3	27.8	27.1	25.9	25.9
55°	2905.7	871.6	95.9	73.8	45.4	32.2	27.1	25.2	23.4	22.1	21.5
57.5°	3090.6	881.7	73.8	57.4	35.3	26.5	24.0	20.8	18.3	15.8	15.8
60°	3205.5	859.0	57.4	44.2	25.9	21.5	18.3	15.1	12.0	10.1	9.5
62.5°	3168.8	763.0	45.4	32.8	18.3	15.8	12.0	10.1	6.9	5.0	4.4
65°	2980.1	616.0	36.6	22.7	13.3	9.5	6.3	6.3	3.2	0.6	0.0
67.5°	2608.4	456.3	29.0	15.1	7.6	4.4	3.2	1.9	0.0	0.0	0.0
70°	2123.1	329.4	22.7	9.5	4.4	3.2	1.3	0.6	0.0	0.0	0.0
72.5°	1348.1	188.7	17.7	5.7	3.2	1.3	0.0	0.0	0.0	0.0	0.0
75°	521.3	73.8	12.0	3.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	147.7	34.7	6.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	38.5	15.1	3.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	18.3	6.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.7	2.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	0.6	0.0	0.0	0.0	0.0	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)