

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: P458579

Luminaire Tested: **GALN-SA1C-735-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458579  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1C-735-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5482 lumens  
Efficiency: N/A  
Efficacy: 96.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

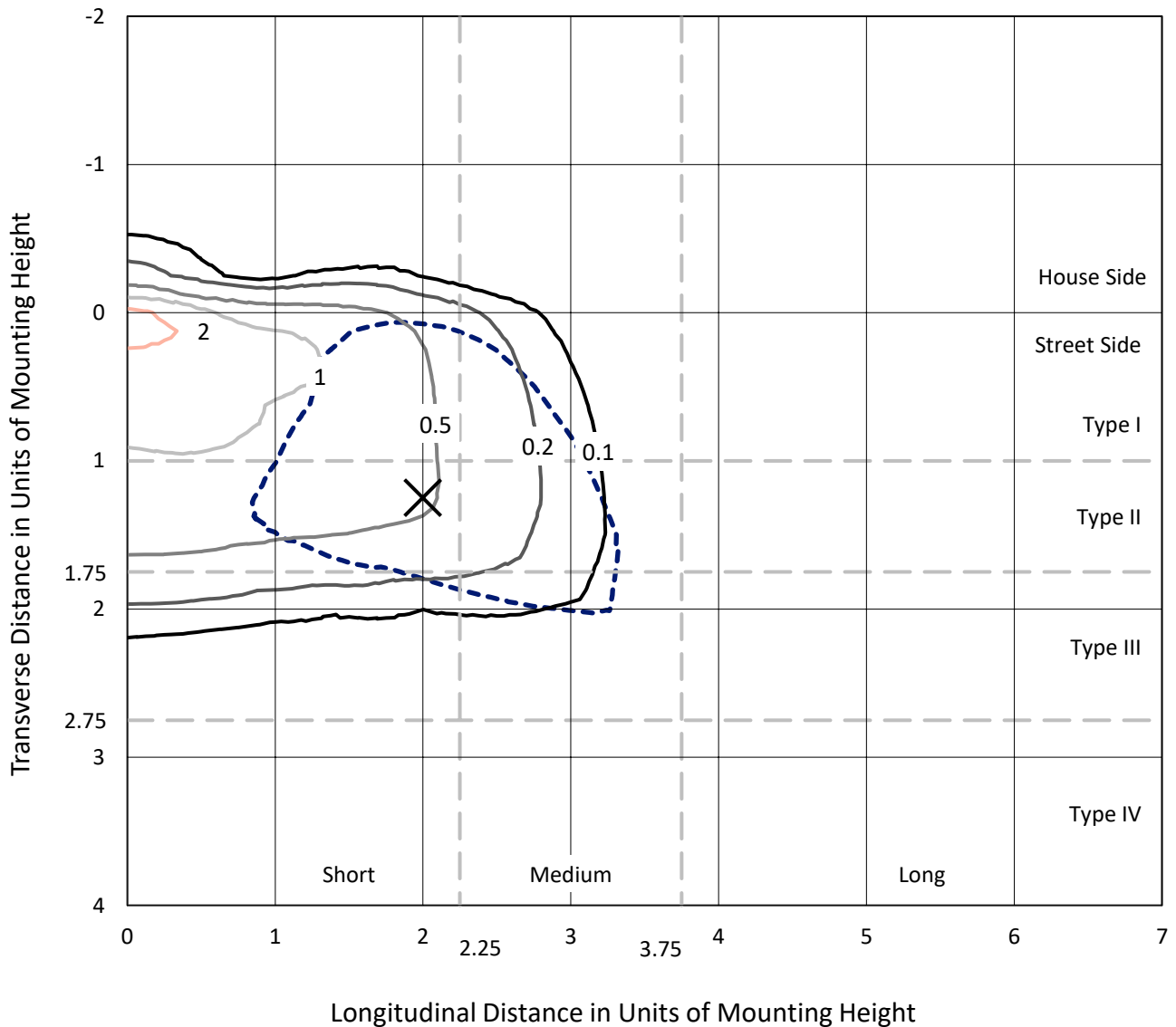
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

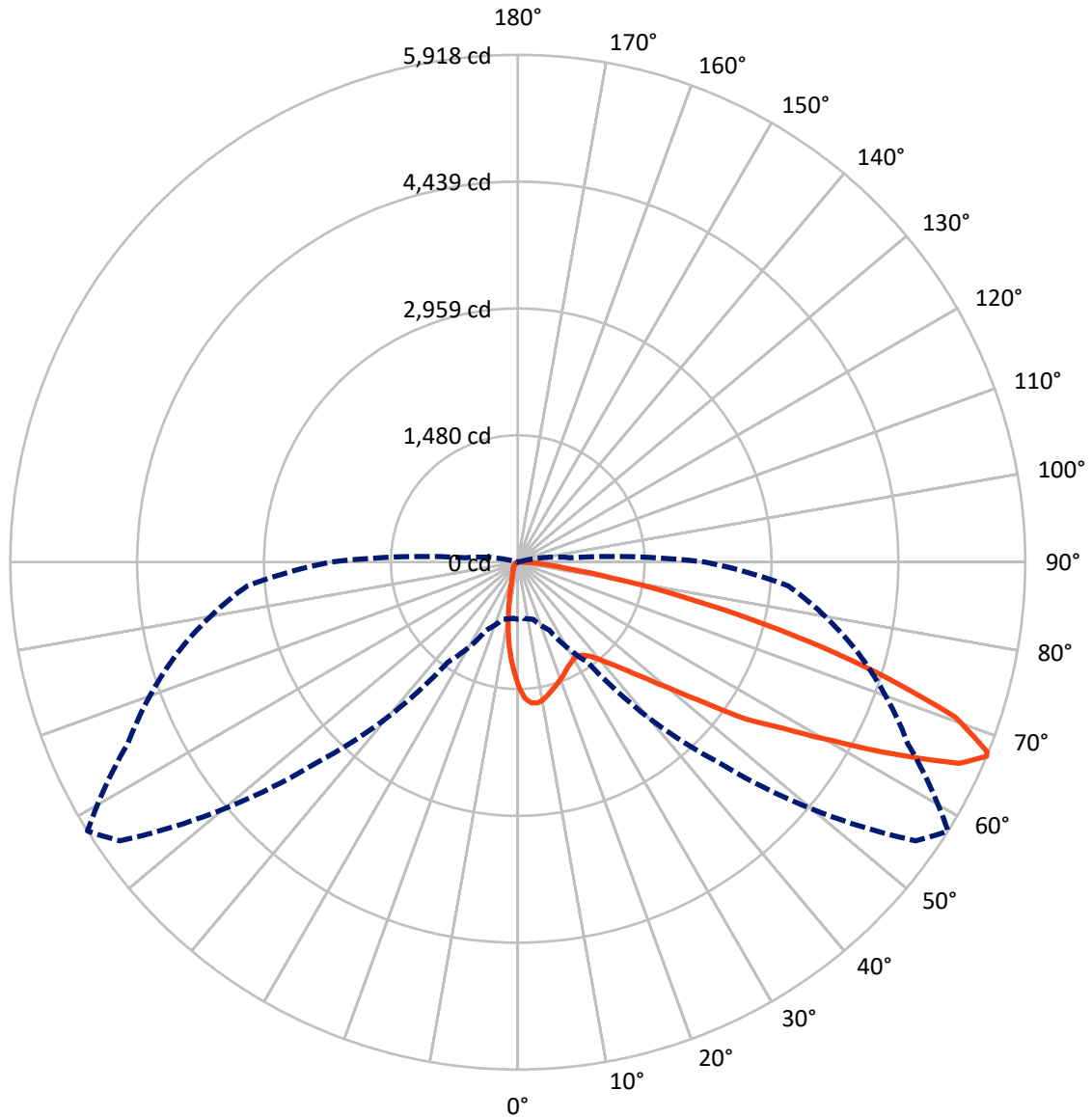
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	395.6	0.0	395.6
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	5086.4	0.0	5086.4
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	5482.0	0.0	5482.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.9	2.2
10°-20°	254.7	4.6
20°-30°	345.1	6.3
30°-40°	478.7	8.7
40°-50°	763.4	13.9
50°-60°	1319.6	24.1
60°-70°	1507.4	27.5
70°-80°	628.5	11.5
80°-90°	66.6	1.2
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°	5482.0	100.0
0°-180°	5482.0	100.0

**Coefficient of Utilization**



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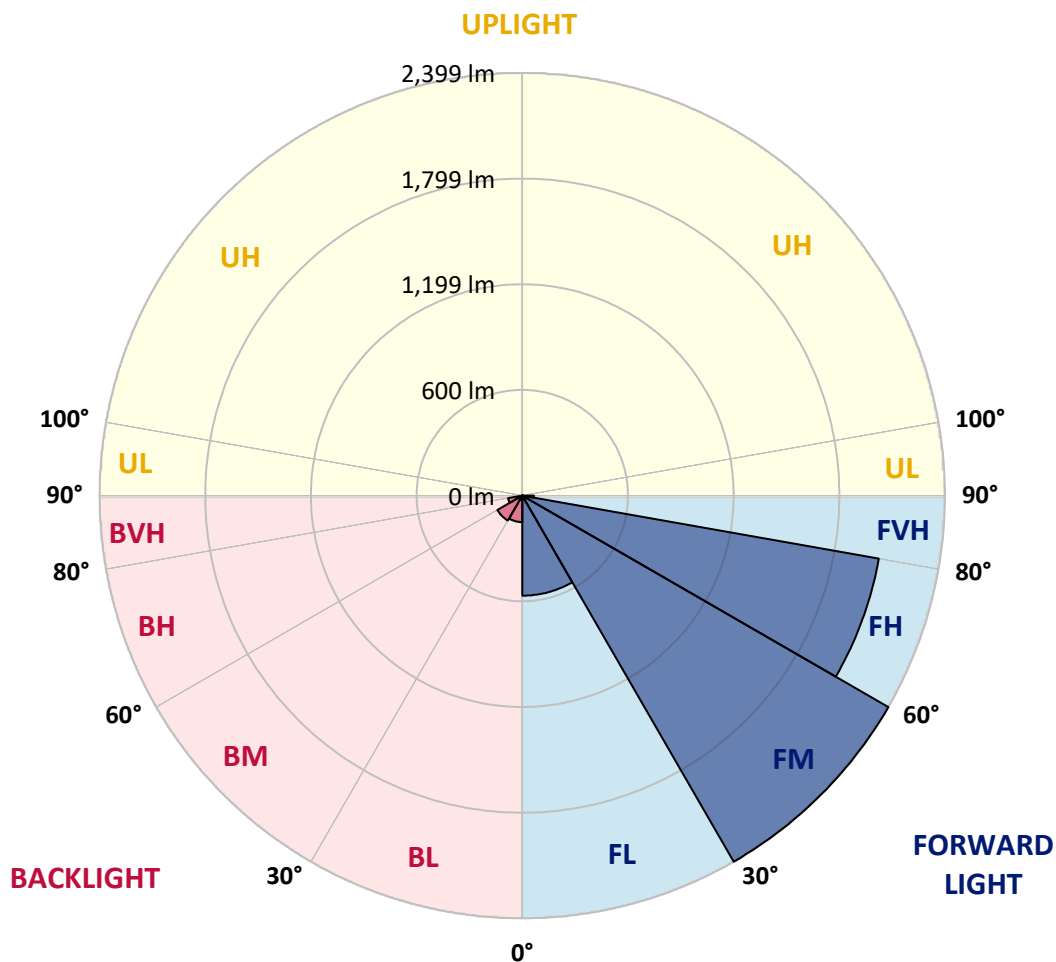
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	567.5	10.4			
FM (30°-60°)	2398.6	43.8			
FH (60°-80°)	2054.1	37.5			G2/5000
FVH (80°-90°)	66.1	1.2			G1/100
BL (0°-30°)	150.2	2.7	B1/500		
BM (30°-60°)	163.1	3.0	B0/220		
BH (60°-80°)	81.8	1.5	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°	58°	65°	75°	85°
0°	1453.2	1453.2	1453.2	1453.2	1453.2	1453.2	1453.2	1453.2	1453.2	1453.2	1453.2
2.5°	1686.6	1689.1	1679.6	1671.9	1652.1	1630.9	1602.7	1587.7	1562.0	1517.7	1468.6
5°	1726.1	1729.4	1728.0	1726.1	1718.5	1697.9	1662.0	1648.8	1611.1	1538.9	1450.3
7.5°	1638.2	1650.3	1651.8	1666.1	1679.6	1681.5	1667.9	1658.0	1623.2	1538.6	1417.7
10°	1521.7	1529.8	1541.5	1558.0	1590.6	1617.7	1630.9	1629.4	1609.3	1527.2	1379.6
12.5°	1404.1	1408.5	1426.5	1454.7	1494.6	1540.8	1575.9	1582.9	1583.3	1513.7	1347.7
15°	1303.0	1301.2	1315.1	1347.7	1403.8	1461.7	1524.7	1535.7	1553.2	1500.5	1318.1
17.5°	1216.6	1226.1	1228.3	1264.2	1315.9	1391.0	1471.2	1490.6	1525.8	1489.1	1293.5
20°	1163.1	1168.2	1173.0	1193.1	1239.7	1318.8	1421.0	1447.7	1500.1	1478.9	1266.0
22.5°	1147.3	1150.6	1146.6	1152.8	1185.8	1256.1	1366.4	1401.9	1475.6	1469.3	1243.7
25°	1159.4	1162.7	1153.2	1145.9	1157.2	1205.2	1313.7	1356.9	1455.8	1467.5	1226.8
27.5°	1188.7	1195.0	1181.8	1168.6	1162.0	1177.7	1272.3	1322.4	1442.2	1476.3	1219.1
30°	1234.5	1238.2	1228.3	1212.2	1197.2	1181.4	1250.6	1298.6	1438.6	1496.8	1218.4
32.5°	1284.4	1292.0	1286.5	1275.9	1256.5	1219.1	1256.9	1299.4	1447.4	1526.5	1227.6
35°	1345.9	1354.7	1359.8	1357.6	1332.7	1286.2	1296.4	1332.3	1470.8	1581.1	1252.5
37.5°	1406.3	1414.0	1443.0	1452.9	1430.9	1386.9	1373.4	1397.2	1522.5	1652.5	1297.5
40°	1475.6	1485.8	1526.5	1564.2	1553.6	1507.4	1482.5	1502.3	1601.6	1760.2	1382.9
42.5°	1541.9	1560.2	1622.1	1688.8	1698.7	1647.0	1630.5	1637.1	1718.8	1915.2	1501.9
45°	1636.0	1653.2	1733.1	1823.6	1870.1	1829.8	1813.0	1811.9	1879.6	2133.1	1695.0
47.5°	1771.9	1787.3	1881.5	1970.9	2053.6	2059.1	2027.3	2038.3	2081.8	2388.1	1931.7
50°	1938.6	1974.9	2036.8	2129.8	2240.5	2329.9	2339.7	2325.1	2362.5	2683.4	2215.9
52.5°	2180.8	2194.7	2251.5	2328.0	2457.7	2609.4	2727.0	2706.8	2695.1	2964.7	2503.1
55°	2361.4	2380.0	2468.3	2573.5	2763.6	2963.6	3218.6	3225.5	3077.5	3235.1	2784.1
57.5°	2306.8	2335.3	2469.1	2680.4	3098.4	3464.0	3653.8	3658.5	3431.4	3497.7	3101.3
60°	2026.5	2040.1	2231.7	2513.8	3127.0	4006.2	4271.0	4232.6	3791.5	3791.5	3381.6
62.5°	1437.1	1458.4	1613.7	2028.7	2824.0	4194.5	5010.3	4930.8	4287.5	4072.5	3548.6
65°	918.4	897.9	1000.8	1280.7	2103.8	3916.4	5653.9	5658.7	4754.2	4184.9	3457.4
67°	665.3	657.2	686.9	875.5	1426.5	3292.2	5667.5	5918.4	5022.4	4113.9	3165.8
67.5°	608.5	614.7	636.3	789.8	1296.1	2995.8	5605.9	5903.0	5082.8	4071.0	3060.3
70°	461.2	450.6	474.0	558.7	777.0	1889.9	4822.4	5414.0	5007.7	3645.7	2445.2
72.5°	339.2	338.1	370.7	456.8	598.2	1006.7	3620.1	4341.0	4091.2	2776.0	1539.7
75°	229.0	239.2	291.2	381.7	542.2	652.8	2468.0	3149.3	2840.2	1576.3	629.4
77.5°	130.4	131.1	187.6	306.6	486.9	525.3	1462.4	2006.4	1503.4	524.2	186.8
80°	56.4	61.9	93.0	222.7	403.7	465.2	838.5	1102.7	608.1	111.0	60.4
82.5°	20.9	24.5	41.0	137.0	294.5	383.2	506.6	526.4	206.2	39.2	37.7
85°	0.0	0.7	15.0	64.1	153.5	171.1	338.5	312.1	91.2	18.7	24.5
87.5°	0.0	0.0	0.0	6.6	20.1	63.7	105.1	117.2	22.0	6.6	5.9
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°	1453.2	1453.2	1453.2	1453.2	1453.2	1453.2	1453.2	1453.2	1453.2	1453.2	1453.2
2.5°	1442.2	1418.4	1358.7	1299.0	1254.7	1217.7	1162.0	1131.6	1115.5	1091.7	1093.1
5°	1406.0	1357.6	1252.5	1143.7	1055.8	970.0	867.5	826.1	791.3	771.5	758.3
7.5°	1352.1	1280.7	1125.0	979.9	844.8	694.9	582.5	507.4	456.8	438.1	420.2
10°	1293.1	1198.3	995.7	794.6	607.0	452.4	357.2	288.3	263.8	241.0	243.2
12.5°	1238.6	1123.2	877.0	627.2	425.3	287.6	224.2	196.0	187.9	185.4	185.4
15°	1193.9	1051.4	749.5	471.5	291.6	206.6	179.5	171.8	168.9	168.1	168.1
17.5°	1146.2	983.2	634.5	348.4	212.1	172.9	163.7	158.6	157.5	156.8	156.8
20°	1103.7	914.7	525.3	259.4	171.4	155.7	149.8	146.5	145.4	144.7	145.1
22.5°	1063.5	853.9	422.7	196.0	150.9	141.8	135.9	132.6	130.4	128.6	128.9
25°	1027.6	795.3	340.0	160.5	135.9	127.8	122.0	117.2	112.5	110.3	109.9
27.5°	1002.3	744.0	264.9	137.4	122.4	113.6	106.2	100.4	94.1	90.8	90.1
30°	981.4	692.0	209.5	121.3	108.8	100.4	91.2	82.8	76.2	72.9	71.4
32.5°	967.8	642.5	165.2	108.1	97.4	87.2	76.9	68.5	61.2	57.9	57.1
35°	965.6	601.1	135.2	97.1	87.2	76.2	65.6	56.4	50.2	46.9	46.2
37.5°	981.4	569.3	113.2	88.3	78.8	66.7	54.9	46.5	41.0	38.5	38.1
40°	1023.5	549.1	98.2	81.0	71.1	57.9	46.9	39.6	34.1	31.5	31.5
42.5°	1103.7	549.9	88.3	74.0	63.4	49.5	39.9	33.0	28.2	26.0	25.3
45°	1229.0	574.8	79.9	67.0	56.0	42.9	34.1	27.1	22.3	20.5	20.5
47.5°	1396.8	624.2	72.5	60.1	49.5	36.6	28.9	22.0	18.0	16.1	16.1
50°	1616.2	703.7	66.3	54.2	44.0	31.5	23.4	18.0	13.9	12.5	12.1
52.5°	1845.6	801.9	59.0	49.1	37.7	26.7	19.0	13.9	10.6	9.5	9.2
55°	2098.7	897.9	52.0	44.0	30.8	22.3	15.0	11.0	7.7	6.6	6.6
57.5°	2354.0	992.0	43.6	36.6	24.2	16.5	11.7	8.1	5.1	4.0	4.0
60°	2570.2	1022.4	37.0	29.7	18.3	11.7	8.4	5.1	2.9	1.8	1.8
62.5°	2599.8	919.9	31.1	22.7	13.2	8.1	4.4	2.9	1.1	0.7	0.7
65°	2438.7	747.3	26.0	17.2	8.8	4.0	1.8	1.1	0.4	0.0	0.0
67°	2185.2	605.9	21.2	12.8	6.2	2.6	1.1	0.4	0.0	0.0	0.0
67.5°	2120.3	577.7	20.5	12.1	5.5	2.2	0.7	0.4	0.0	0.0	0.0
70°	1663.9	432.6	14.7	7.3	3.3	1.5	0.0	0.0	0.0	0.0	0.0
72.5°	1034.1	244.7	10.6	4.4	2.2	0.7	0.0	0.0	0.0	0.0	0.0
75°	390.9	85.7	7.3	2.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	121.6	32.6	4.4	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	41.0	12.5	2.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	25.3	5.1	1.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.8	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.9	0.7	0.4	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)