

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: P453030

Luminaire Tested: **GALN-SA4A-730-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453030  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA4A-730-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11919 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

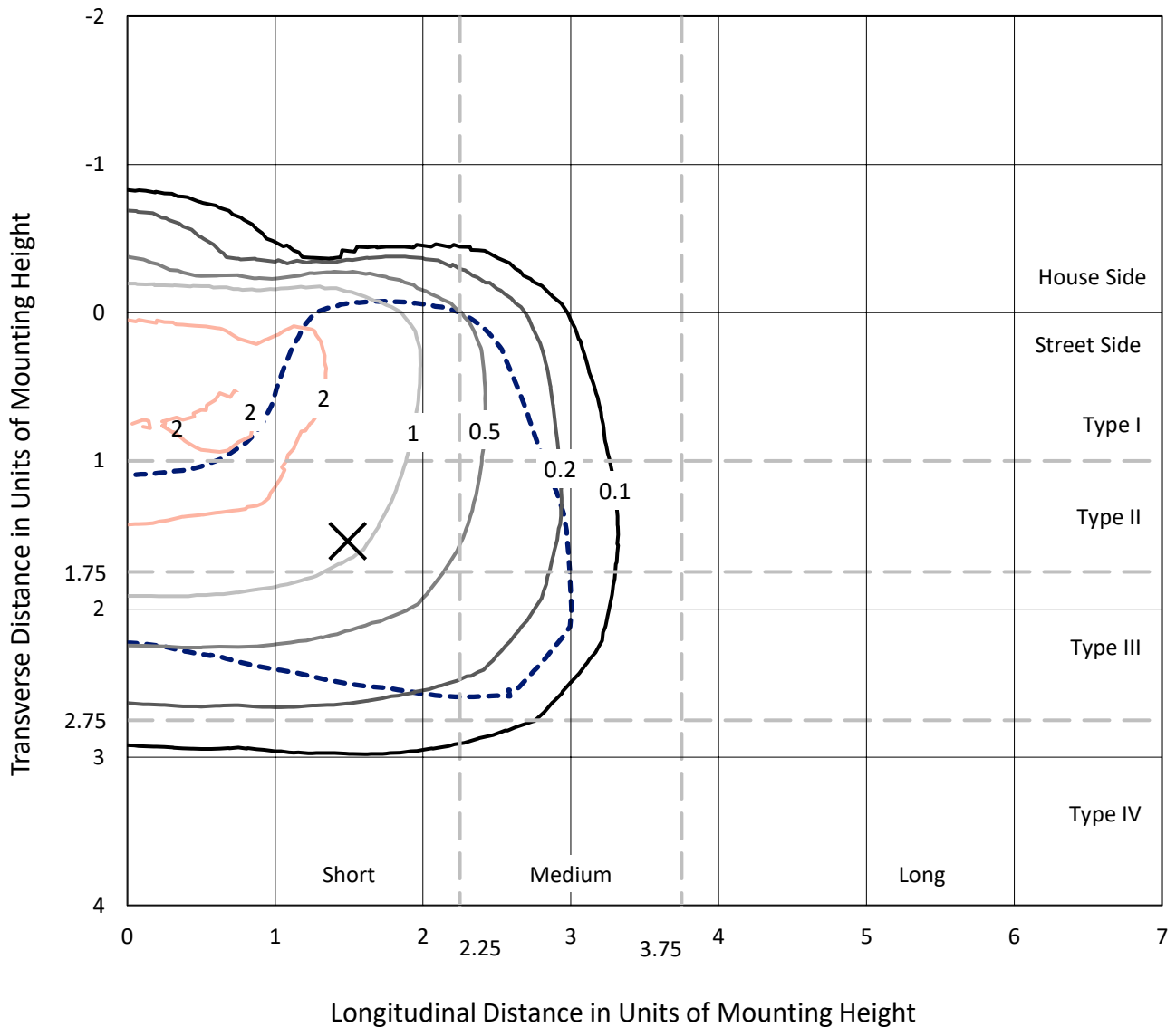
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

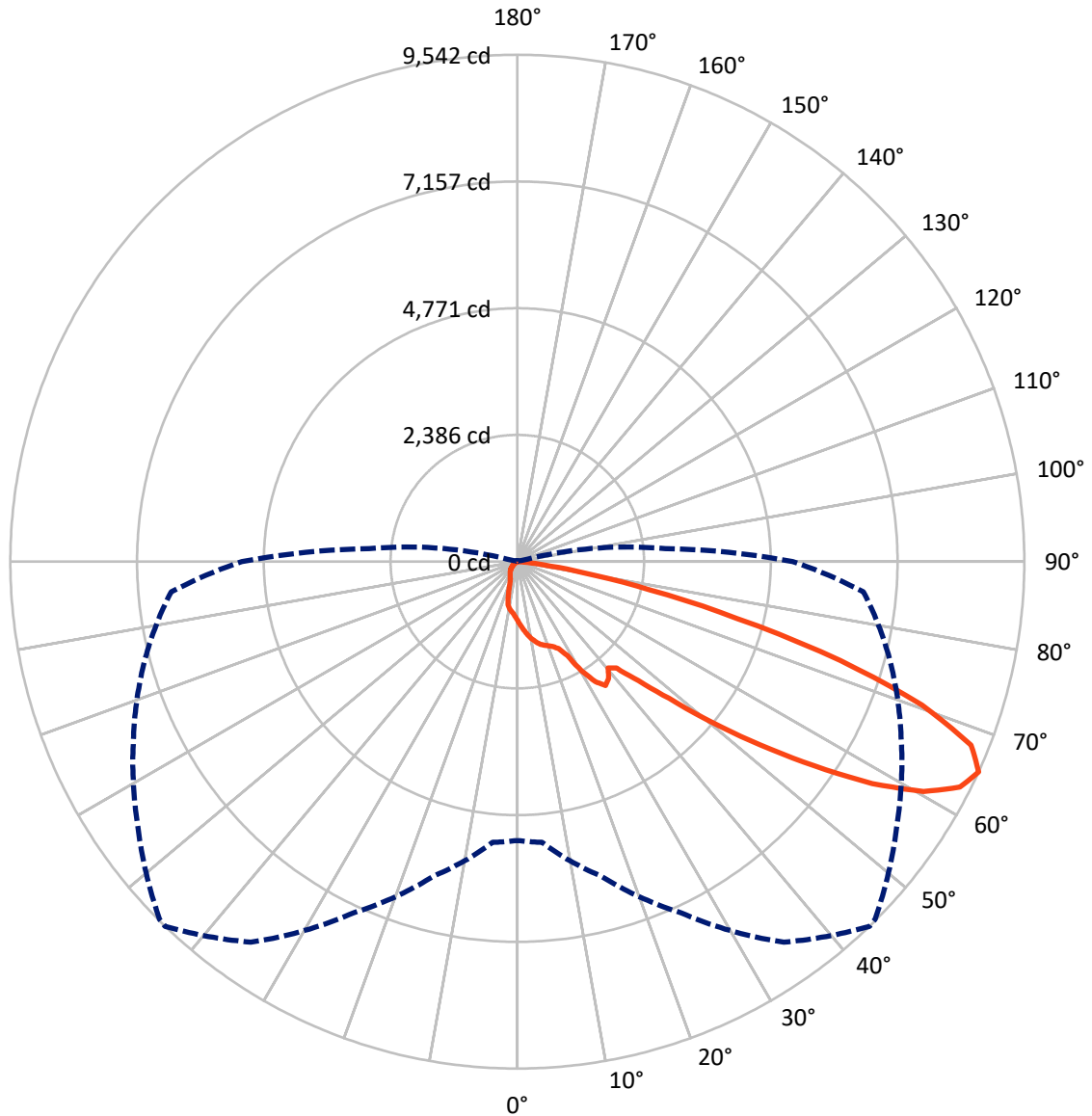
✕ Max cd  
 - - - 1/2 Max cd



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 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1098.1	0.0	1098.1
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	10820.8	0.0	10820.8
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	11919.0	0.0	11919.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.3	0.9
10°-20°	332.1	2.8
20°-30°	563.1	4.7
30°-40°	936.2	7.9
40°-50°	1634.6	13.7
50°-60°	3193.4	26.8
60°-70°	3705.1	31.1
70°-80°	1349.2	11.3
80°-90°	95.1	0.8
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°	11919.0	100.0
0°-180°	11919.0	100.0



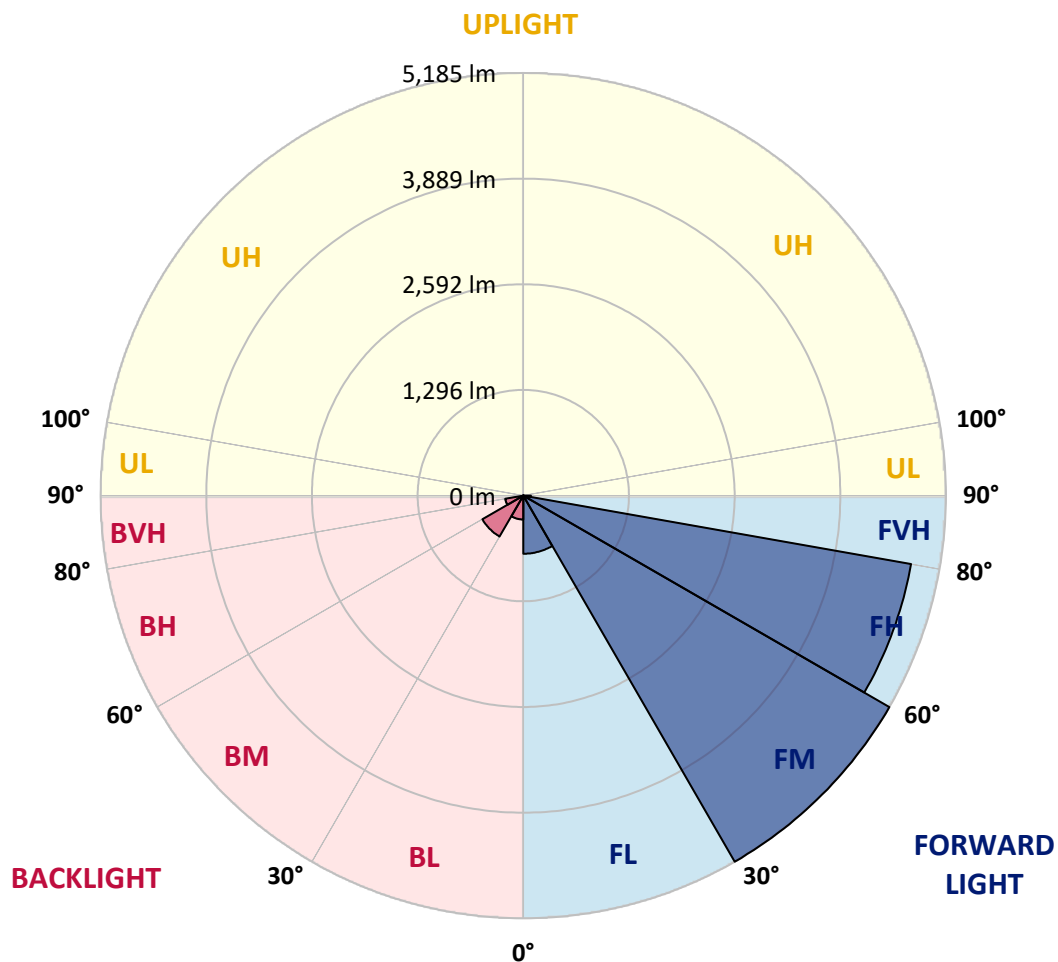
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	712.9	6.0			
FM (30°-60°)	5184.8	43.5			
FH (60°-80°)	4829.4	40.5			G2/5000
FVH (80°-90°)	93.8	0.8			G1/100
BL (0°-30°)	292.6	2.5	B1/500		
BM (30°-60°)	579.4	4.9	B1/1000		
BH (60°-80°)	224.9	1.9	B1/500		G1/500
BVH (80°-90°)	1.3	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°	44°	45°	55°	65°	75°	85°
0°	1109.3	1109.3	1109.3	1109.3	1109.3	1109.3	1109.3	1109.3	1109.3	1109.3	1109.3
2.5°	1248.6	1243.2	1240.5	1225.9	1215.0	1201.3	1201.3	1184.0	1163.9	1142.1	1122.1
5°	1388.0	1378.9	1367.0	1354.3	1328.8	1292.4	1292.4	1255.9	1214.0	1176.7	1135.7
7.5°	1521.9	1513.7	1493.6	1469.1	1427.2	1388.9	1386.2	1333.3	1283.3	1226.8	1168.5
10°	1639.4	1633.0	1615.7	1568.3	1524.6	1474.5	1473.6	1414.4	1356.1	1286.9	1215.0
12.5°	1721.3	1722.2	1699.5	1653.9	1597.5	1550.1	1546.5	1488.2	1427.2	1352.5	1264.1
15°	1779.6	1779.6	1755.9	1704.9	1653.9	1612.0	1608.4	1557.4	1494.6	1413.5	1317.9
17.5°	1796.0	1801.5	1776.0	1730.4	1689.5	1653.0	1652.1	1609.3	1559.2	1480.9	1372.5
20°	1789.6	1795.1	1775.1	1739.5	1711.3	1690.4	1687.6	1670.3	1623.9	1550.1	1430.8
22.5°	1776.0	1781.4	1766.9	1745.9	1732.3	1738.6	1734.1	1748.7	1724.1	1634.8	1500.0
25°	1778.7	1784.2	1773.2	1761.4	1773.2	1812.4	1824.2	1887.1	1865.2	1742.3	1574.7
27.5°	1864.3	1875.3	1859.8	1865.2	1907.1	1998.2	2021.0	2129.4	2032.8	1878.9	1691.3
30°	2054.7	2047.4	2018.2	2044.7	2190.4	2383.5	2377.1	2359.8	2208.6	2036.5	1829.7
32.5°	2227.7	2221.3	2219.5	2333.4	2597.5	2691.3	2686.7	2519.2	2366.1	2216.8	1966.3
35°	2297.8	2273.3	2267.8	2543.7	2985.5	2861.6	2833.4	2584.7	2557.4	2413.5	2105.7
37.5°	2509.1	2491.8	2407.1	2578.4	2830.6	2789.7	2767.8	2697.7	2761.4	2587.5	2263.2
40°	2944.5	2896.2	2819.7	2652.1	2611.1	2628.4	2650.3	2842.5	3002.8	2825.2	2473.6
42.5°	3485.5	3474.5	3332.5	3020.1	2713.1	2736.8	2765.1	3144.8	3349.8	3183.1	2817.0
45°	4134.8	4150.3	3945.4	3576.5	3174.0	3194.0	3235.0	3591.1	3819.7	3739.6	3357.1
47.5°	4725.0	4713.2	4644.0	4260.5	3888.9	3844.3	3910.8	4164.0	4470.0	4482.8	4027.4
50°	5318.8	5381.7	5278.8	5128.5	4852.5	4758.7	4734.1	4858.0	5324.3	5263.3	4832.5
52.5°	6172.2	6205.0	6011.9	5973.7	6036.5	5732.3	5707.7	5737.8	6154.9	5945.4	5435.4
55°	6708.6	6689.5	6617.6	6916.3	7164.9	6785.1	6754.2	6633.1	6844.3	6427.2	6015.6
57.5°	6878.0	6905.4	7072.9	7613.0	8201.4	7879.0	7822.5	7478.2	7341.6	6876.2	6549.3
60°	6802.5	6852.5	7214.1	8017.4	8833.4	8785.2	8736.9	8158.6	7698.6	7251.5	6923.6
62.5°	6264.2	6334.3	6912.7	7945.5	9047.5	9348.9	9288.8	8583.0	7936.3	7433.6	6989.2
65°	5249.6	5301.5	6132.1	7292.4	8743.3	9542.0	9520.2	8716.0	7973.7	7266.9	6540.2
67.5°	3742.3	3919.0	4688.6	6145.8	7843.4	9212.3	9249.7	8556.6	7623.0	6546.5	5416.3
70°	2352.5	2472.7	3024.6	4399.9	6287.9	8082.1	8205.0	7827.1	6615.7	5103.0	3625.7
72.5°	1122.1	1211.3	1604.8	2785.1	4438.1	6358.9	6456.4	6425.4	5115.7	3215.0	1870.7
75°	500.0	533.7	765.9	1421.7	2865.2	4274.2	4526.5	4568.4	3196.8	1572.9	727.7
77.5°	255.0	255.9	358.8	688.5	1430.8	2550.1	2600.2	2746.8	1733.2	693.1	253.2
80°	135.7	144.8	190.3	325.1	742.3	1255.9	1249.6	1373.4	768.7	339.7	84.7
82.5°	61.0	67.4	107.5	170.3	362.5	476.3	513.7	561.9	329.7	216.8	37.3
85°	18.2	21.9	52.8	85.6	131.1	137.5	153.9	198.5	186.7	153.9	19.1
87.5°	2.7	2.7	21.9	23.7	19.1	24.6	25.5	28.2	60.1	56.5	10.0
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°	1109.3	1109.3	1109.3	1109.3	1109.3	1109.3	1109.3	1109.3	1109.3	1109.3	1109.3
2.5°	1111.1	1104.7	1082.0	1062.9	1046.5	1036.4	1024.6	1017.3	1013.7	1010.9	1011.9
5°	1115.7	1100.2	1061.0	1030.1	1006.4	980.9	963.6	953.6	949.0	941.7	941.7
7.5°	1141.2	1116.6	1061.9	1014.6	973.6	939.0	906.2	894.4	886.2	884.3	882.5
10°	1177.6	1146.6	1072.0	1006.4	948.1	900.7	854.3	813.3	781.4	762.3	759.6
12.5°	1223.1	1178.5	1087.4	1000.9	926.2	842.5	719.5	636.6	581.1	563.8	566.5
15°	1265.0	1216.8	1102.9	996.4	886.2	698.6	559.2	464.5	436.3	433.5	434.4
17.5°	1315.1	1257.8	1121.1	990.0	776.0	533.7	415.3	389.8	395.3	404.4	403.5
20°	1367.0	1301.5	1143.0	951.7	619.3	401.6	367.0	369.8	378.0	386.2	388.0
22.5°	1422.6	1351.6	1168.5	859.8	472.7	349.7	347.9	351.6	359.7	368.9	370.7
25°	1499.1	1414.4	1187.6	739.5	357.9	323.3	327.0	333.3	340.6	350.6	352.5
27.5°	1597.5	1499.1	1197.6	582.9	309.7	299.6	300.6	309.7	318.8	327.9	327.9
30°	1725.0	1600.2	1177.6	440.8	286.0	276.9	273.2	278.7	290.5	299.6	300.6
32.5°	1838.8	1695.8	1124.8	337.0	268.7	255.9	246.8	247.7	252.3	257.7	258.7
35°	1952.7	1788.7	1034.6	283.2	250.5	235.9	222.2	214.9	211.3	208.6	211.3
37.5°	2098.4	1904.4	914.4	257.7	235.0	216.8	197.6	182.2	169.4	161.2	163.0
40°	2286.0	2064.7	772.3	241.4	220.4	198.5	173.0	153.0	131.1	123.9	120.2
42.5°	2595.7	2307.9	623.0	227.7	205.8	179.4	147.5	120.2	100.2	92.9	94.7
45°	3084.7	2614.8	480.0	213.1	191.3	158.5	123.9	94.7	78.3	74.7	76.5
47.5°	3733.2	3011.9	369.8	196.7	173.0	135.7	97.5	74.7	64.7	63.8	62.8
50°	4343.4	3381.6	308.7	178.5	151.2	112.9	80.1	62.8	56.5	55.6	55.6
52.5°	4895.3	3646.7	251.4	157.6	127.5	92.9	67.4	55.6	50.1	47.4	47.4
55°	5386.2	3819.7	204.0	132.1	100.2	73.8	58.3	50.1	43.7	40.1	39.2
57.5°	5756.9	3840.7	153.0	105.6	74.7	57.4	50.1	43.7	36.4	31.9	30.1
60°	5915.4	3659.4	112.9	80.1	55.6	45.5	40.1	35.5	27.3	22.8	21.9
62.5°	5756.0	3307.0	83.8	61.0	42.8	33.7	28.2	26.4	19.1	13.7	12.8
65°	5184.9	2797.8	66.5	46.4	31.9	24.6	18.2	17.3	11.8	6.4	5.5
67.5°	4154.0	2191.3	52.8	34.6	22.8	16.4	11.8	10.9	6.4	1.8	1.8
70°	2701.3	1400.7	42.8	25.5	14.6	10.9	7.3	5.5	3.6	0.9	0.0
72.5°	1336.1	654.8	34.6	20.0	10.0	5.5	2.7	1.8	2.7	0.0	0.0
75°	518.2	233.2	25.5	13.7	5.5	2.7	1.8	0.0	0.9	0.0	0.0
77.5°	172.1	77.4	15.5	7.3	3.6	1.8	0.0	0.0	0.0	0.0	0.0
80°	63.8	30.1	8.2	4.6	1.8	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	25.5	11.8	5.5	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.8	7.3	3.6	2.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.1	5.5	3.6	2.7	1.8	0.9	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)