

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: P458888

Luminaire Tested: **GALN-SA4A-735-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458888  
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-735-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 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: 12191 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

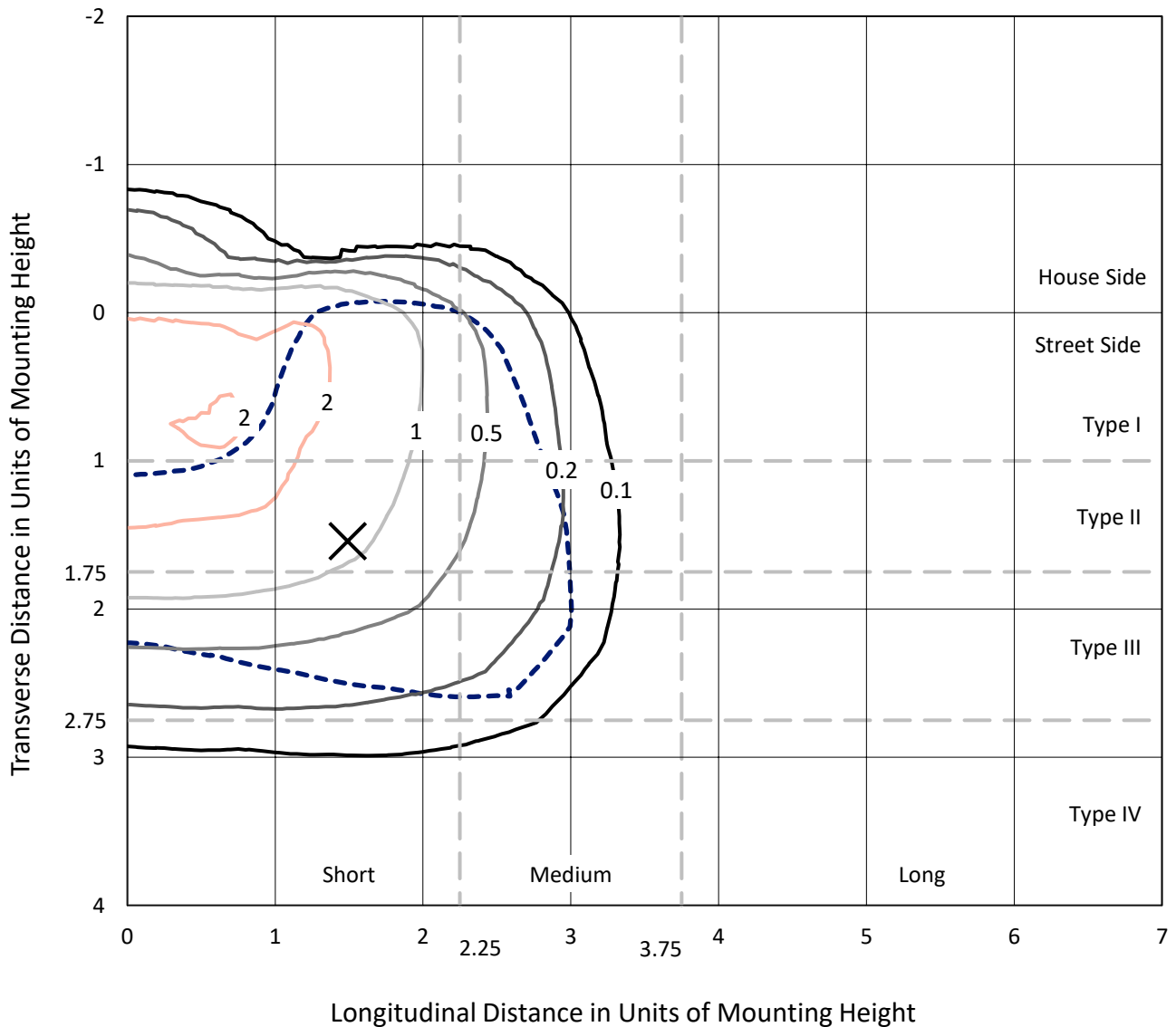
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

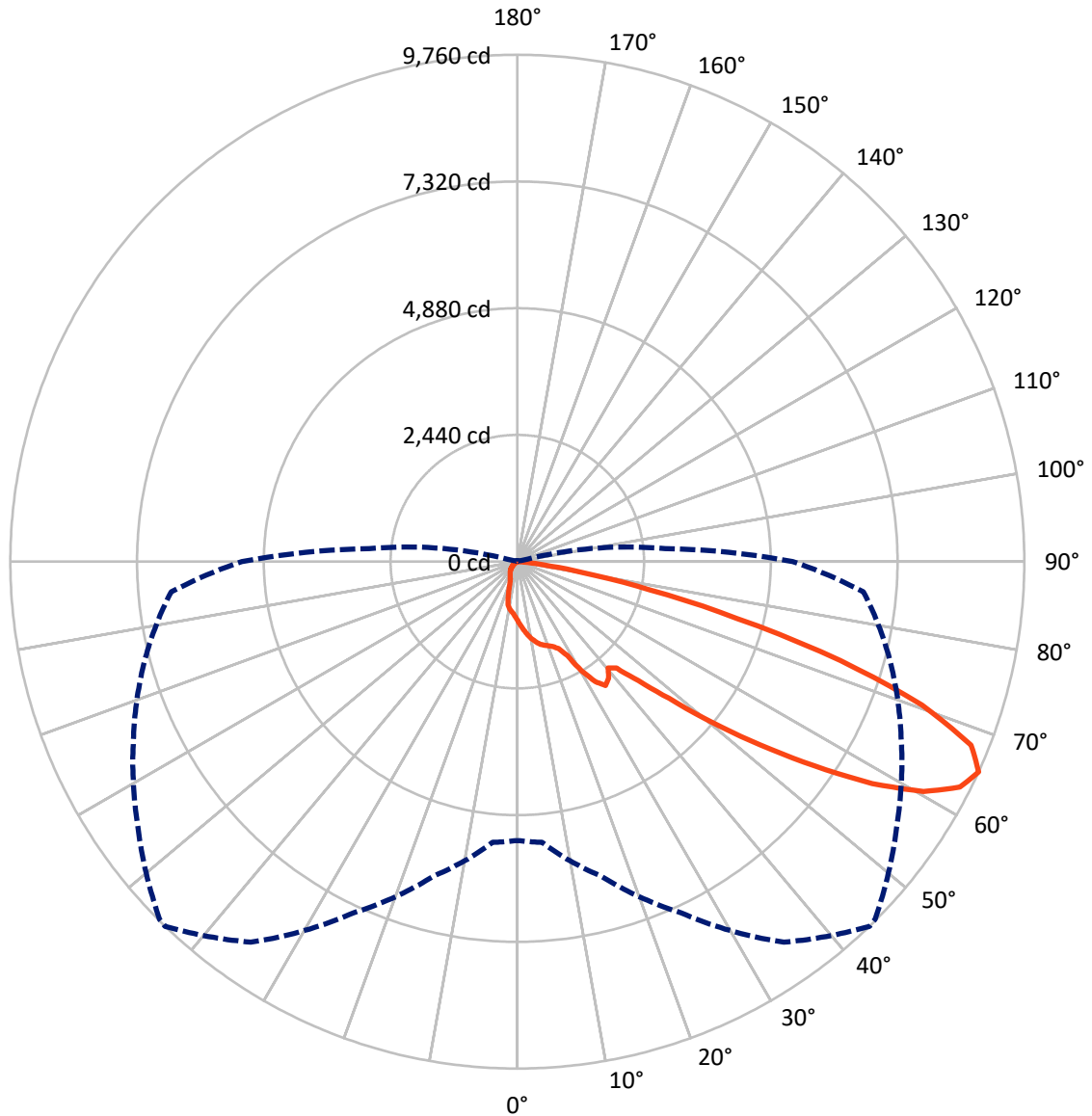
✕ Max cd  
 - - - 1/2 Max cd



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	1123.2	0.0	1123.2
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	11067.8	0.0	11067.8
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	12191.0	0.0	12191.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.8	0.9
10°-20°	339.6	2.8
20°-30°	575.9	4.7
30°-40°	957.5	7.9
40°-50°	1671.9	13.7
50°-60°	3266.3	26.8
60°-70°	3789.7	31.1
70°-80°	1380.0	11.3
80°-90°	97.2	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°	12191.0	100.0
0°-180°	12191.0	100.0

**Coefficient of Utilization**



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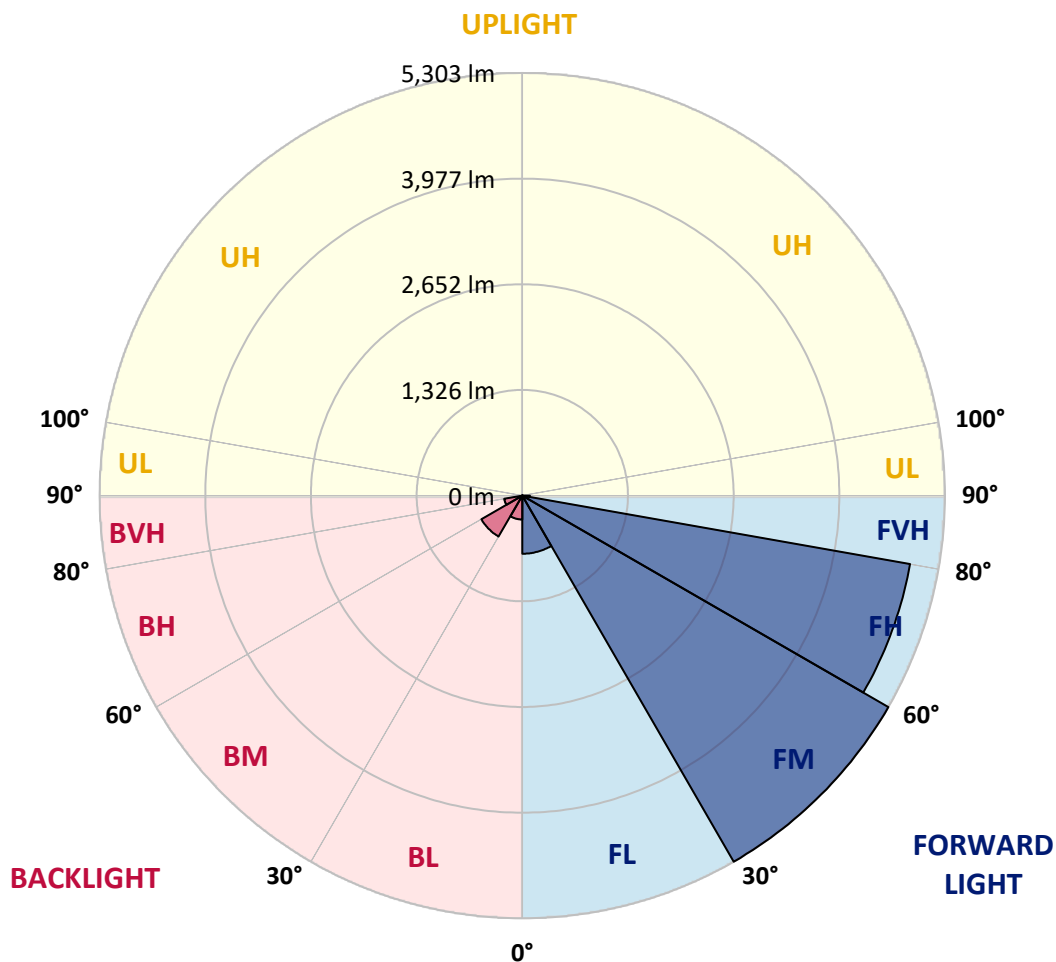
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	729.1	6.0			
FM (30°-60°)	5303.1	43.5			
FH (60°-80°)	4939.6	40.5			G2/5000
FVH (80°-90°)	95.9	0.8			G1/100
BL (0°-30°)	299.3	2.5	B1/500		
BM (30°-60°)	592.6	4.9	B1/1000		
BH (60°-80°)	230.0	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°	1134.6	1134.6	1134.6	1134.6	1134.6	1134.6	1134.6	1134.6	1134.6	1134.6	1134.6
2.5°	1277.1	1271.6	1268.8	1253.9	1242.7	1228.7	1228.7	1211.0	1190.5	1168.2	1147.7
5°	1419.7	1410.4	1398.2	1385.2	1359.1	1321.9	1321.9	1284.6	1241.7	1203.6	1161.6
7.5°	1556.6	1548.2	1527.7	1502.6	1459.7	1420.6	1417.8	1363.8	1312.5	1254.8	1195.2
10°	1676.8	1670.3	1652.6	1604.1	1559.4	1508.2	1507.2	1446.7	1387.1	1316.3	1242.7
12.5°	1760.6	1761.5	1738.3	1691.7	1633.9	1585.5	1581.8	1522.1	1459.7	1383.3	1293.0
15°	1820.2	1820.2	1796.0	1743.8	1691.7	1648.8	1645.1	1592.9	1528.7	1445.8	1347.9
17.5°	1837.0	1842.6	1816.5	1769.9	1728.0	1690.7	1689.8	1646.0	1594.8	1514.7	1403.8
20°	1830.5	1836.1	1815.6	1779.2	1750.4	1728.9	1726.1	1708.4	1660.9	1585.5	1463.5
22.5°	1816.5	1822.1	1807.2	1785.8	1771.8	1778.3	1773.7	1788.6	1763.4	1672.1	1534.3
25°	1819.3	1824.9	1813.7	1801.6	1813.7	1853.8	1865.9	1930.2	1907.8	1782.0	1610.6
27.5°	1906.9	1918.0	1902.2	1907.8	1950.6	2043.8	2067.1	2177.9	2079.2	1921.8	1729.9
30°	2101.6	2094.1	2064.3	2091.3	2240.4	2437.8	2431.3	2413.6	2259.0	2082.9	1871.5
32.5°	2278.6	2272.0	2270.2	2386.6	2656.8	2752.7	2748.0	2576.6	2420.1	2267.4	2011.2
35°	2350.3	2325.1	2319.5	2601.8	3053.6	2926.9	2898.0	2643.7	2615.8	2468.6	2153.7
37.5°	2566.4	2548.7	2462.1	2637.2	2895.2	2853.3	2831.0	2759.2	2824.4	2646.5	2314.9
40°	3011.7	2962.3	2884.1	2712.7	2670.7	2688.4	2710.8	2907.3	3071.3	2889.6	2530.1
42.5°	3565.0	3553.8	3408.5	3089.0	2775.1	2799.3	2828.2	3216.6	3426.2	3255.7	2881.3
45°	4229.2	4245.0	4035.4	3658.2	3246.4	3266.9	3308.8	3673.1	3906.9	3824.9	3433.7
47.5°	4832.8	4820.7	4749.9	4357.8	3977.7	3932.0	4000.0	4259.0	4572.0	4585.1	4119.3
50°	5440.2	5504.5	5399.2	5245.5	4963.3	4867.3	4842.2	4968.8	5445.8	5383.4	4942.8
52.5°	6313.1	6346.6	6149.1	6110.0	6174.3	5863.1	5838.0	5868.7	6295.4	6081.1	5559.4
55°	6861.7	6842.2	6768.6	7074.1	7328.4	6940.0	6908.3	6784.4	7000.5	6573.9	6152.8
57.5°	7035.0	7063.0	7234.4	7786.8	8388.5	8058.8	8001.0	7648.9	7509.2	7033.1	6698.7
60°	6957.7	7008.9	7378.7	8200.4	9035.0	8985.7	8936.3	8344.8	7874.3	7416.9	7081.6
62.5°	6407.1	6478.9	7070.4	8126.8	9253.9	9562.3	9500.8	8778.9	8117.5	7603.2	7148.7
65°	5369.4	5422.5	6272.1	7458.9	8942.8	9759.8	9737.4	8914.9	8155.7	7432.8	6689.4
67.5°	3827.7	4008.4	4795.6	6286.0	8022.4	9422.6	9460.7	8751.8	7797.0	6695.9	5539.9
70°	2406.2	2529.1	3093.7	4500.3	6431.4	8266.5	8392.3	8005.7	6766.7	5219.4	3708.5
72.5°	1147.7	1239.0	1641.4	2848.7	4539.4	6504.0	6603.7	6572.0	5232.5	3288.3	1913.4
75°	511.4	545.9	783.4	1454.1	2930.6	4371.7	4629.8	4672.6	3269.7	1608.8	744.3
77.5°	260.8	261.8	367.0	704.2	1463.5	2608.3	2659.6	2809.5	1772.7	708.9	259.0
80°	138.8	148.1	194.7	332.6	759.2	1284.6	1278.1	1404.8	786.2	347.5	86.6
82.5°	62.4	68.9	109.9	174.2	370.8	487.2	525.4	574.8	337.2	221.7	38.2
85°	18.6	22.4	54.0	87.6	134.1	140.7	157.4	203.1	191.0	157.4	19.6
87.5°	2.8	2.8	22.4	24.2	19.6	25.2	26.1	28.9	61.5	57.8	10.2
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°	1134.6	1134.6	1134.6	1134.6	1134.6	1134.6	1134.6	1134.6	1134.6	1134.6	1134.6
2.5°	1136.5	1130.0	1106.7	1087.1	1070.3	1060.1	1048.0	1040.5	1036.8	1034.0	1034.9
5°	1141.1	1125.3	1085.2	1053.6	1029.4	1003.3	985.6	975.3	970.7	963.2	963.2
7.5°	1167.2	1142.1	1086.2	1037.7	995.8	960.4	926.9	914.8	906.4	904.5	902.7
10°	1204.5	1172.8	1096.4	1029.4	969.7	921.3	873.8	831.9	799.3	779.7	776.9
12.5°	1251.1	1205.4	1112.3	1023.8	947.4	861.7	735.9	651.1	594.3	576.6	579.4
15°	1293.9	1244.5	1128.1	1019.1	906.4	714.5	572.0	475.1	446.2	443.4	444.3
17.5°	1345.1	1286.5	1146.7	1012.6	793.7	545.9	424.8	398.7	404.3	413.6	412.7
20°	1398.2	1331.2	1169.1	973.5	633.4	410.8	375.4	378.2	386.6	395.0	396.8
22.5°	1455.1	1382.4	1195.2	879.4	483.5	357.7	355.8	359.6	368.0	377.3	379.1
25°	1533.3	1446.7	1214.7	756.4	366.1	330.7	334.4	340.9	348.4	358.6	360.5
27.5°	1633.9	1533.3	1225.0	596.2	316.7	306.5	307.4	316.7	326.0	335.4	335.4
30°	1764.3	1636.7	1204.5	450.9	292.5	283.2	279.5	285.1	297.2	306.5	307.4
32.5°	1880.8	1734.5	1150.5	344.7	274.8	261.8	252.4	253.4	258.0	263.6	264.6
35°	1997.2	1829.5	1058.2	289.7	256.2	241.3	227.3	219.8	216.1	213.3	216.1
37.5°	2146.3	1947.9	935.3	263.6	240.3	221.7	202.1	186.3	173.3	164.9	166.7
40°	2338.2	2111.8	789.9	246.9	225.4	203.1	177.0	156.5	134.1	126.7	123.0
42.5°	2654.9	2360.5	637.2	232.9	210.5	183.5	150.9	123.0	102.5	95.0	96.9
45°	3155.1	2674.5	490.9	218.0	195.6	162.1	126.7	96.9	80.1	76.4	78.2
47.5°	3818.4	3080.6	378.2	201.2	177.0	138.8	99.7	76.4	66.1	65.2	64.3
50°	4442.5	3458.8	315.8	182.6	154.6	115.5	82.0	64.3	57.8	56.8	56.8
52.5°	5007.0	3729.9	257.1	161.2	130.4	95.0	68.9	56.8	51.2	48.4	48.4
55°	5509.1	3906.9	208.7	135.1	102.5	75.5	59.6	51.2	44.7	41.0	40.1
57.5°	5888.3	3928.3	156.5	108.1	76.4	58.7	51.2	44.7	37.3	32.6	30.7
60°	6050.4	3742.9	115.5	82.0	56.8	46.6	41.0	36.3	27.9	23.3	22.4
62.5°	5887.3	3382.4	85.7	62.4	43.8	34.5	28.9	27.0	19.6	14.0	13.0
65°	5303.3	2861.7	68.0	47.5	32.6	25.2	18.6	17.7	12.1	6.5	5.6
67.5°	4248.8	2241.3	54.0	35.4	23.3	16.8	12.1	11.2	6.5	1.9	1.9
70°	2763.0	1432.7	43.8	26.1	14.9	11.2	7.5	5.6	3.7	0.9	0.0
72.5°	1366.6	669.8	35.4	20.5	10.2	5.6	2.8	1.9	2.8	0.0	0.0
75°	530.0	238.5	26.1	14.0	5.6	2.8	1.9	0.0	0.9	0.0	0.0
77.5°	176.1	79.2	15.8	7.5	3.7	1.9	0.0	0.0	0.0	0.0	0.0
80°	65.2	30.7	8.4	4.7	1.9	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	26.1	12.1	5.6	3.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.0	7.5	3.7	2.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.3	5.6	3.7	2.8	1.9	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)