

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: P451172

Luminaire Tested: **GALN-SA2A-730-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451172  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2A-730-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6031 lumens  
Efficiency: N/A  
Efficacy: 95.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

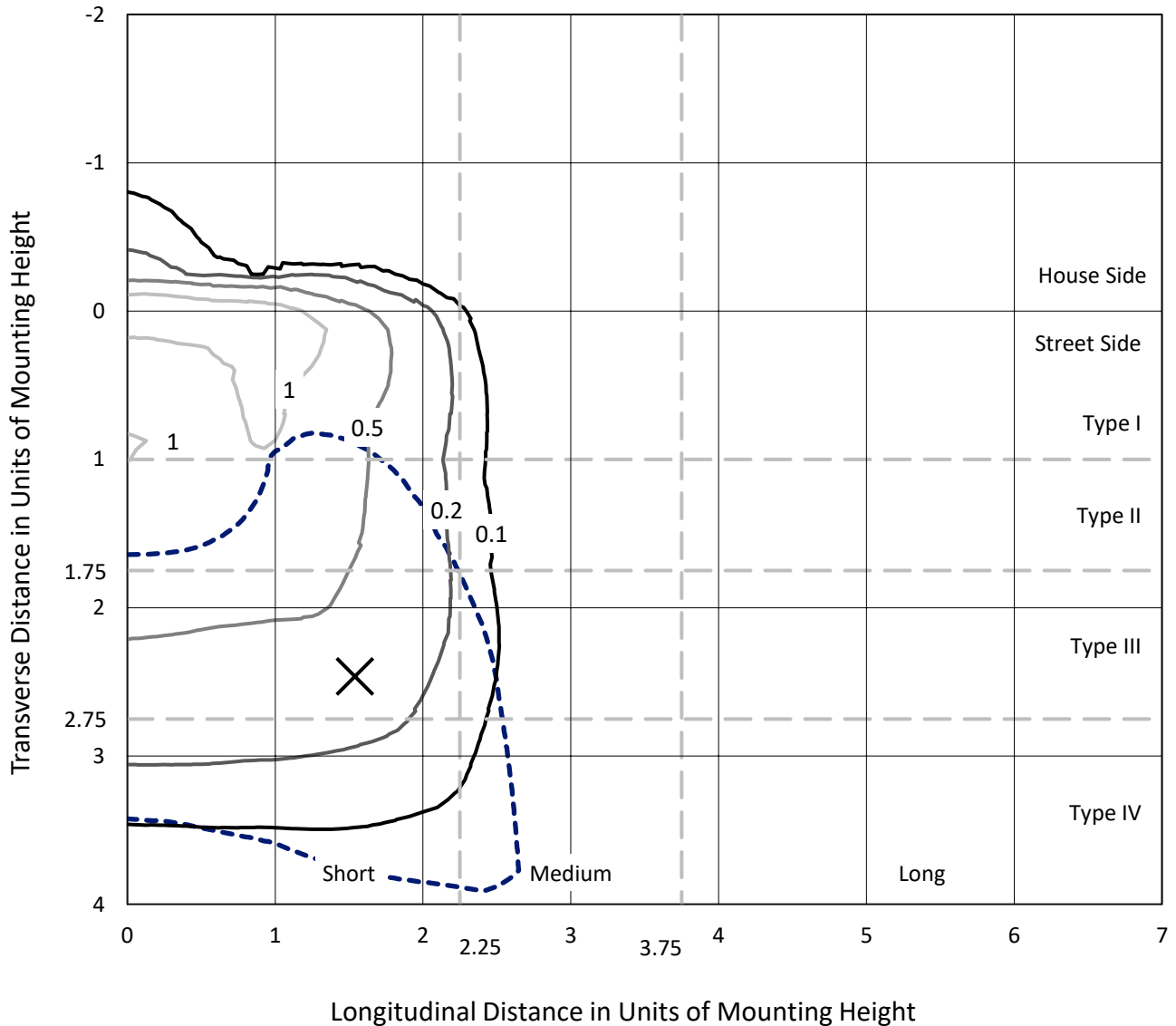
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

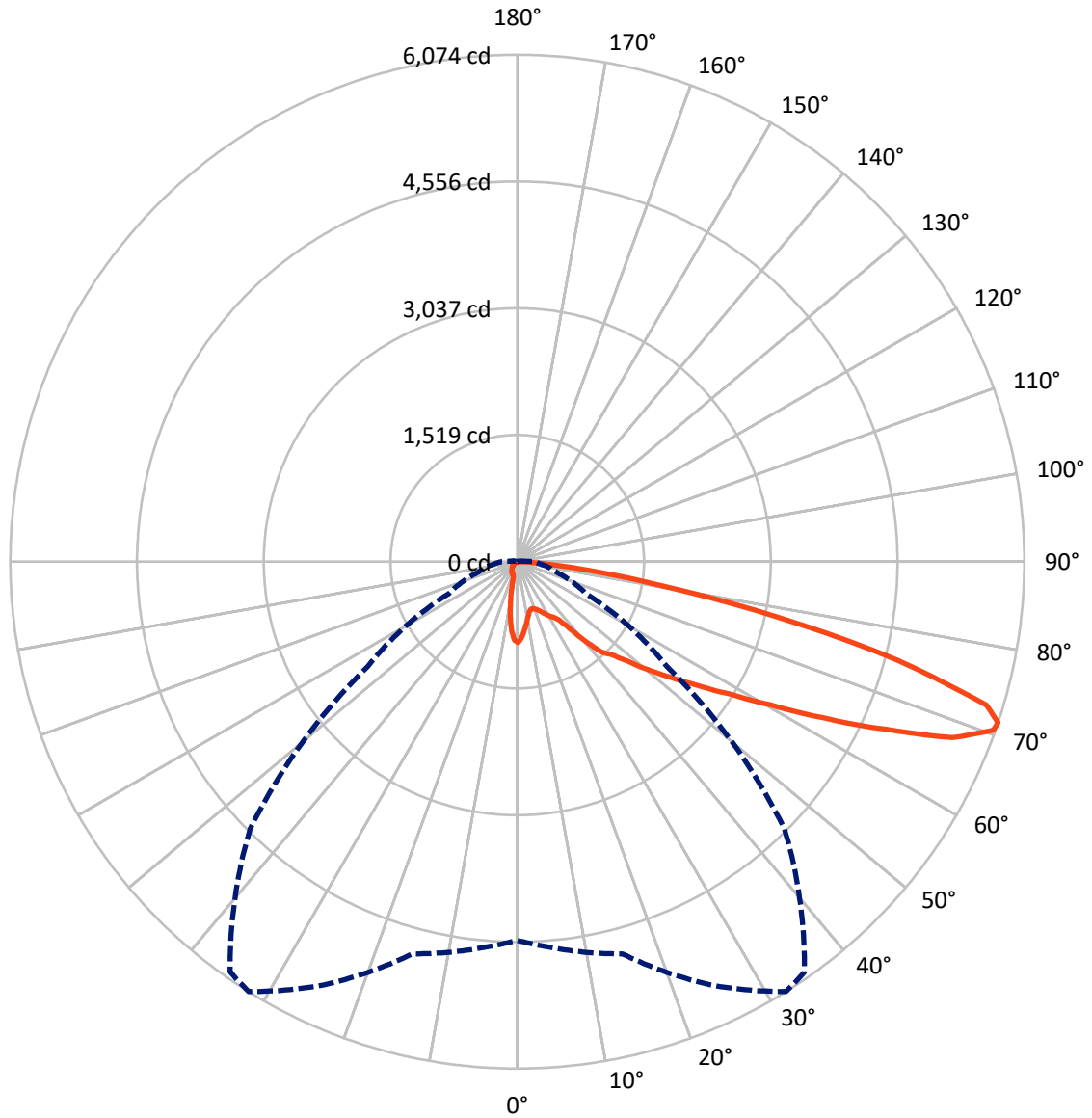
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	505.2	0.0	505.2
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	5525.8	0.0	5525.8
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	6031.0	0.0	6031.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.9	1.3
10°-20°	171.2	2.8
20°-30°	266.3	4.4
30°-40°	443.6	7.4
40°-50°	825.2	13.7
50°-60°	1324.9	22.0
60°-70°	1782.0	29.5
70°-80°	1057.3	17.5
80°-90°	81.7	1.4
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°	6031.0	100.0
0°-180°	6031.0	100.0



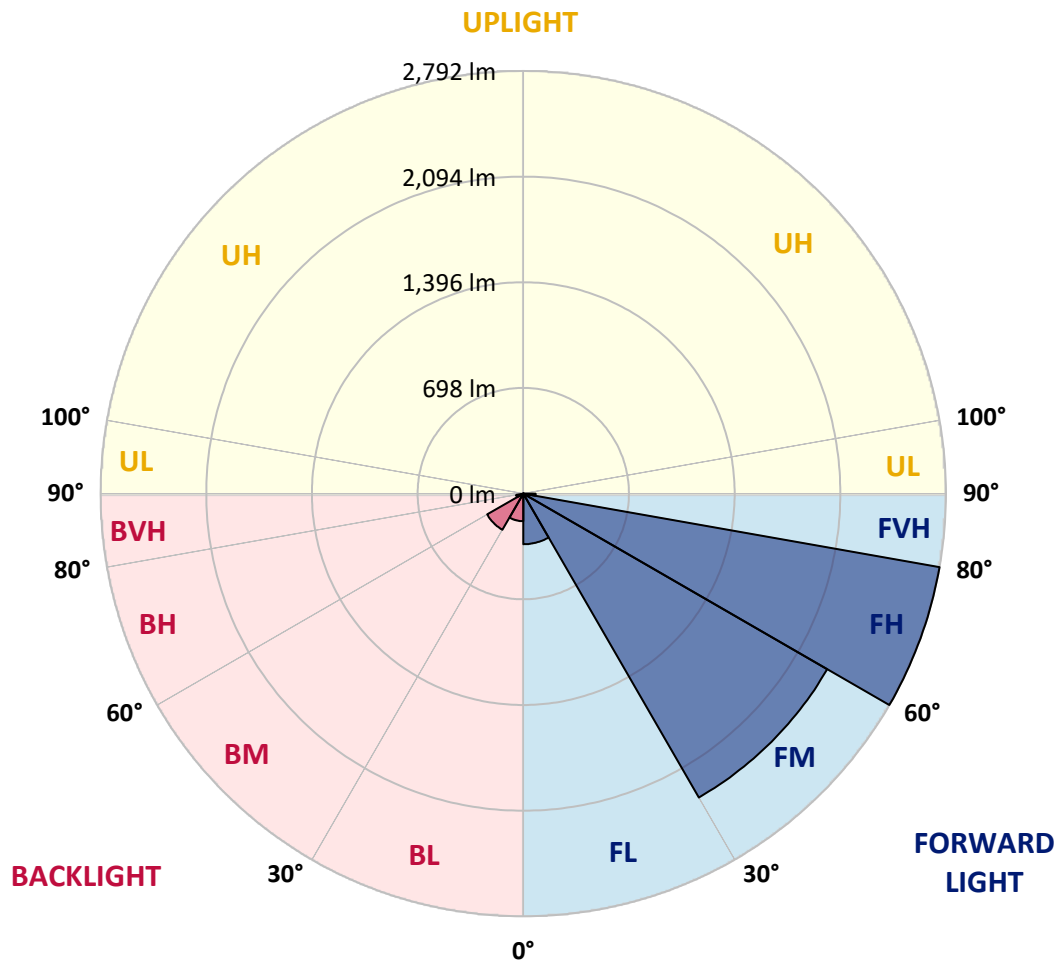
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	334.3	5.5			
FM	(30°-60°)	2318.1	38.4			
FH	(60°-80°)	2792.1	46.3			G2/5000
FVH	(80°-90°)	81.4	1.3			G1/100
BL	(0°-30°)	182.0	3.0	B1/500		
BM	(30°-60°)	275.6	4.6	B1/1000		
BH	(60°-80°)	47.3	0.8	B0/110		G0/110
BVH	(80°-90°)	0.3	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	969.9	969.9	969.9	969.9	969.9	969.9	969.9	969.9	969.9	969.9	969.9
2.5°	899.5	908.8	907.4	910.6	918.5	921.7	930.5	940.3	953.7	962.9	969.0
5°	805.5	812.5	813.4	829.6	837.5	846.3	872.2	900.4	931.9	956.9	973.6
7.5°	705.1	708.8	716.2	737.5	757.4	766.2	805.5	854.6	904.1	950.9	981.0
10°	622.2	626.4	639.8	662.5	681.0	692.6	747.2	808.8	878.2	947.7	991.6
12.5°	575.0	577.3	582.4	602.8	626.4	638.9	697.7	768.0	857.4	949.0	1009.7
15°	571.7	570.8	564.8	573.1	594.4	607.4	664.8	740.3	838.9	953.7	1031.0
17.5°	588.9	586.6	572.2	572.2	589.8	600.4	650.9	725.4	829.6	964.3	1061.1
20°	615.3	611.6	587.9	586.1	603.2	614.3	659.2	726.4	831.5	984.2	1101.4
22.5°	648.6	644.4	608.8	609.7	628.2	639.3	683.3	743.0	843.0	1008.8	1144.4
25°	692.1	687.5	645.4	643.5	662.9	672.7	719.0	772.7	859.2	1039.3	1200.9
27.5°	750.0	740.3	689.8	687.0	707.8	720.3	762.0	812.5	887.9	1081.4	1276.8
30°	797.7	787.0	738.9	731.5	753.7	763.4	806.5	866.2	944.4	1155.1	1381.9
32.5°	860.2	844.4	787.9	768.5	792.1	804.6	870.8	966.2	1028.2	1232.8	1506.9
35°	1000.9	991.2	922.2	854.1	852.8	868.5	965.7	1067.1	1114.3	1354.1	1677.3
37.5°	1202.3	1195.3	1122.2	1031.0	1004.6	997.2	1081.0	1178.2	1251.8	1520.8	1875.4
40°	1436.1	1419.9	1352.7	1275.4	1241.2	1219.4	1217.1	1343.5	1431.4	1747.2	2081.9
42.5°	1603.7	1574.0	1492.5	1487.0	1479.6	1456.9	1391.2	1585.1	1663.4	1990.7	2302.7
45°	1779.6	1734.7	1613.4	1592.5	1589.8	1588.4	1654.1	1871.2	1916.1	2254.6	2529.6
47.5°	1916.1	1880.5	1781.0	1771.7	1783.3	1814.8	2001.8	2174.9	2165.7	2489.7	2719.8
50°	2098.1	2071.2	1960.6	1978.2	2037.9	2089.3	2393.9	2505.9	2370.8	2674.9	2858.2
52.5°	2312.9	2263.4	2160.6	2208.3	2299.9	2385.6	2810.1	2795.8	2514.7	2814.3	2961.5
55°	2499.0	2463.8	2428.6	2478.2	2615.2	2722.1	3186.0	3012.9	2619.4	2926.3	3006.9
57.5°	2813.8	2805.5	2769.4	2819.8	2986.0	3097.1	3522.6	3181.4	2686.5	2984.6	2953.6
60°	3279.5	3266.1	3199.0	3263.3	3480.0	3654.5	3832.8	3332.8	2701.8	2962.0	2800.4
62.5°	3839.7	3793.9	3736.5	3831.4	4128.6	4205.4	4124.9	3422.6	2644.8	2781.4	2430.9
65°	4362.8	4315.6	4317.0	4517.0	4840.6	4892.9	4465.6	3409.2	2478.2	2329.1	1793.0
67.5°	4763.3	4755.4	4811.9	5202.2	5625.3	5589.2	4770.2	3208.2	1984.2	1509.7	952.7
70°	4783.7	4798.9	4961.0	5619.7	6049.4	5992.0	4744.3	2607.8	1237.0	694.4	375.5
71°	4537.4	4640.1	4864.2	5606.8	6074.4	5999.8	4525.8	2184.2	907.4	484.2	270.8
72.5°	3866.6	3920.7	4405.0	5276.7	5876.7	5717.4	3971.6	1531.0	581.0	296.3	155.6
75°	2129.6	2262.9	2949.9	4139.7	4700.3	4560.5	2588.4	727.3	289.8	162.0	64.3
77.5°	1013.9	987.9	1439.3	2462.0	3186.9	3179.5	1304.1	323.1	169.0	109.7	32.4
80°	289.8	325.9	550.9	1170.3	1769.4	1788.8	500.9	156.0	117.1	85.6	16.7
82.5°	87.5	89.3	202.3	517.6	880.1	829.6	188.0	79.6	84.3	68.1	9.7
85°	15.3	19.0	59.7	182.4	335.6	254.6	47.2	38.0	55.6	44.9	5.6
87.5°	0.9	1.4	19.9	20.8	29.6	17.1	8.3	5.6	12.0	12.0	3.2
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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CATALOG NUMBER: GALN-SA2A-730-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	969.9	969.9	969.9	969.9	969.9	969.9	969.9	969.9	969.9	969.9	969.9
2.5°	973.1	975.9	974.0	969.9	962.9	954.6	943.5	934.2	926.4	922.2	927.3
5°	979.1	982.8	973.6	952.7	921.3	887.0	848.1	818.0	794.4	787.0	784.2
7.5°	988.4	990.7	965.7	919.4	852.8	771.7	700.9	641.2	594.9	581.0	560.6
10°	1000.4	999.0	951.8	865.7	748.6	626.8	517.1	435.6	374.1	351.8	350.0
12.5°	1019.0	1011.5	934.2	792.6	624.5	465.3	329.6	257.9	219.0	206.0	203.2
15°	1042.1	1024.5	906.5	706.9	478.2	300.5	203.2	181.5	176.4	175.5	174.5
17.5°	1069.4	1041.6	869.9	601.8	336.1	194.9	169.9	169.4	169.9	169.0	168.5
20°	1106.4	1059.7	826.4	477.3	222.2	164.3	162.0	162.0	162.5	162.0	162.0
22.5°	1145.8	1081.0	772.7	364.3	167.6	156.0	155.6	156.5	157.4	156.9	156.9
25°	1194.4	1108.8	701.8	249.5	150.0	149.1	149.5	151.4	153.2	153.7	153.2
27.5°	1264.8	1143.0	625.9	171.8	137.5	138.4	143.1	147.7	150.5	150.9	150.9
30°	1343.9	1181.0	526.8	139.3	127.3	127.3	132.9	141.7	147.7	148.6	149.1
32.5°	1445.8	1225.0	417.1	125.5	117.6	116.7	121.8	132.4	143.5	146.8	146.8
35°	1571.7	1276.8	310.2	116.7	110.6	108.3	111.1	119.9	134.3	143.5	144.4
37.5°	1719.4	1325.9	226.8	108.8	104.2	100.9	102.8	109.7	121.3	135.2	138.9
40°	1856.0	1369.4	169.4	102.3	97.7	95.4	96.8	100.0	109.7	122.7	125.0
42.5°	2005.0	1403.2	134.7	95.4	91.2	90.3	90.3	91.7	98.1	105.6	106.0
45°	2153.6	1415.2	113.0	87.0	84.3	85.2	84.7	83.8	86.6	85.6	85.6
47.5°	2259.7	1400.9	93.5	79.2	79.2	80.6	78.2	75.0	73.6	68.1	68.5
50°	2332.3	1348.6	76.8	69.9	73.6	75.5	70.8	65.7	60.6	54.6	53.2
52.5°	2362.4	1255.5	63.0	57.9	65.3	67.6	62.0	56.0	48.1	43.1	41.7
55°	2343.0	1140.7	52.3	47.2	55.1	57.9	52.3	45.4	36.6	31.0	30.1
57.5°	2257.3	1003.7	44.4	37.5	44.0	45.8	42.1	34.7	25.9	20.4	20.4
60°	2109.2	862.0	36.1	29.6	32.9	35.6	31.9	25.0	17.6	12.5	11.6
62.5°	1808.7	700.0	29.2	23.1	23.1	25.5	22.2	18.1	11.1	6.5	6.0
65°	1306.0	480.1	23.1	17.1	16.7	16.7	13.9	12.0	6.5	2.8	1.9
67.5°	709.7	270.8	18.5	13.0	11.6	11.1	8.8	6.9	2.8	0.5	0.0
70°	279.2	104.2	14.4	8.8	7.4	6.9	4.6	3.2	1.9	0.0	0.0
71°	189.3	71.8	12.5	7.4	6.0	5.1	3.7	2.8	1.4	0.0	0.0
72.5°	108.3	44.4	9.7	5.6	4.6	3.7	2.8	1.9	1.4	0.0	0.0
75°	47.2	22.7	6.0	4.2	3.2	2.3	1.9	1.4	0.5	0.0	0.0
77.5°	24.1	12.5	4.2	3.2	1.9	1.4	0.9	0.5	0.0	0.0	0.0
80°	13.4	6.5	2.8	1.9	1.4	0.9	0.5	0.5	0.0	0.0	0.0
82.5°	7.4	3.7	1.4	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.6	2.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	0.9	0.0	0.0	0.0	0.0	0.5	0.5	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)