

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: P455959

Luminaire Tested: **GALN-SA7A-830-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455959
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-SA7A-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 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: 18310 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 215
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

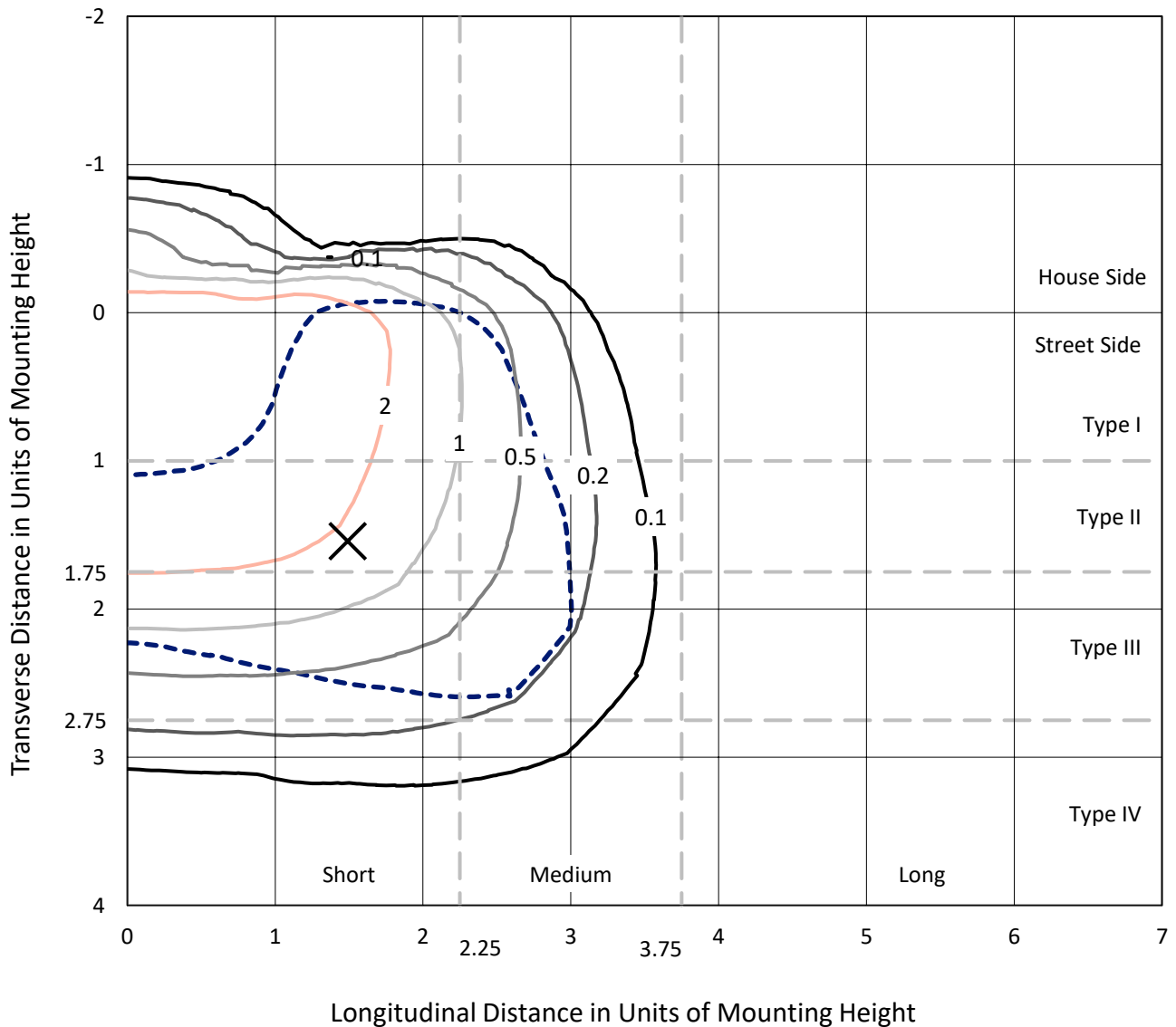




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Iso-Footcandle Lines of Horizontal Illumination

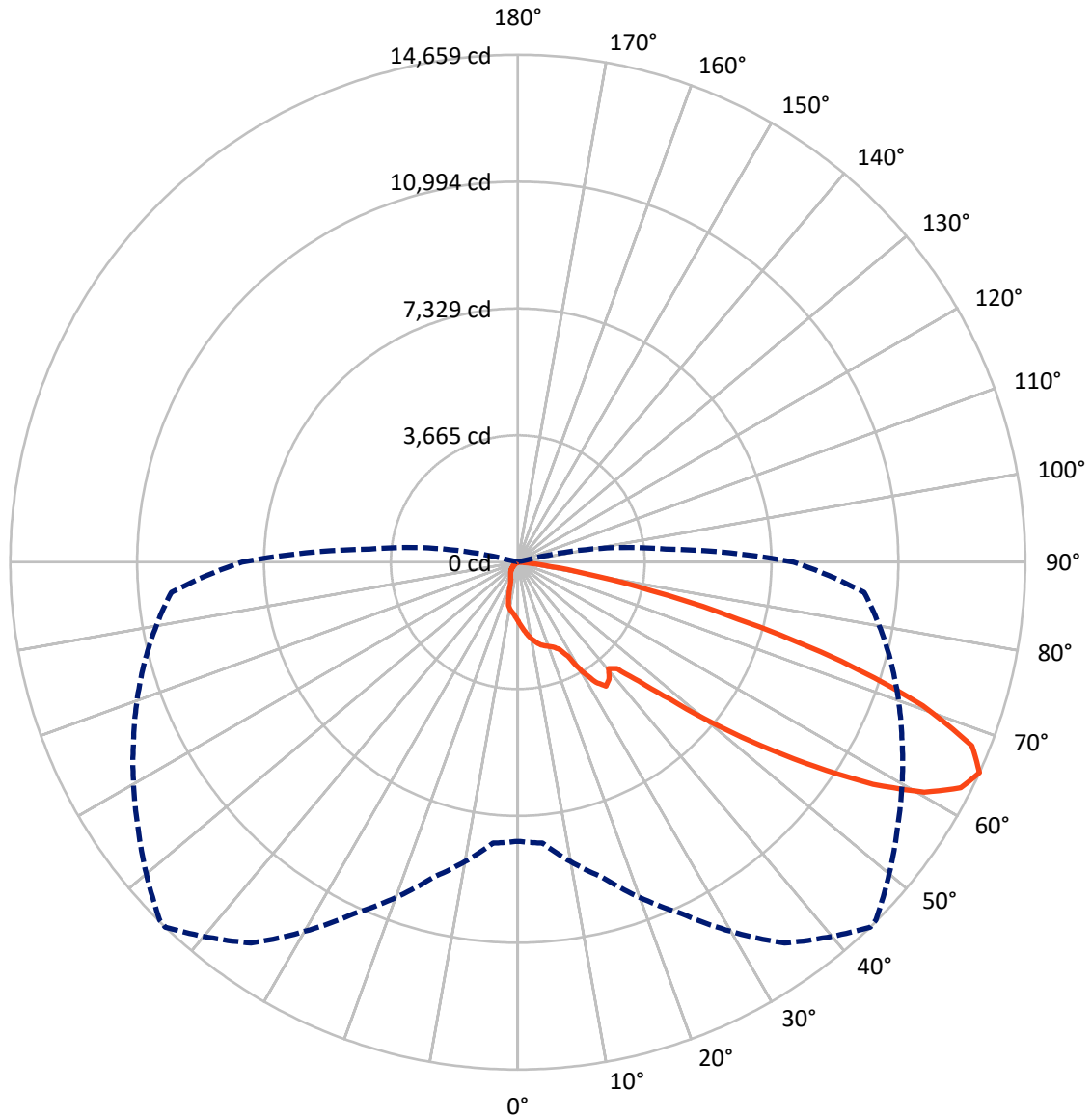
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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
House Side	Lumens	1687.0	0.0	1687.0
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	16623.0	0.0	16623.0
	% Fixture	90.8	0.0	90.8
Total	Lumens	18310.0	0.0	18310.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.5	0.9
10°-20°	510.1	2.8
20°-30°	865.0	4.7
30°-40°	1438.2	7.9
40°-50°	2511.1	13.7
50°-60°	4905.7	26.8
60°-70°	5691.8	31.1
70°-80°	2072.7	11.3
80°-90°	146.0	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°	18310.0	100.0
0°-180°	18310.0	100.0

Coefficient of Utilization



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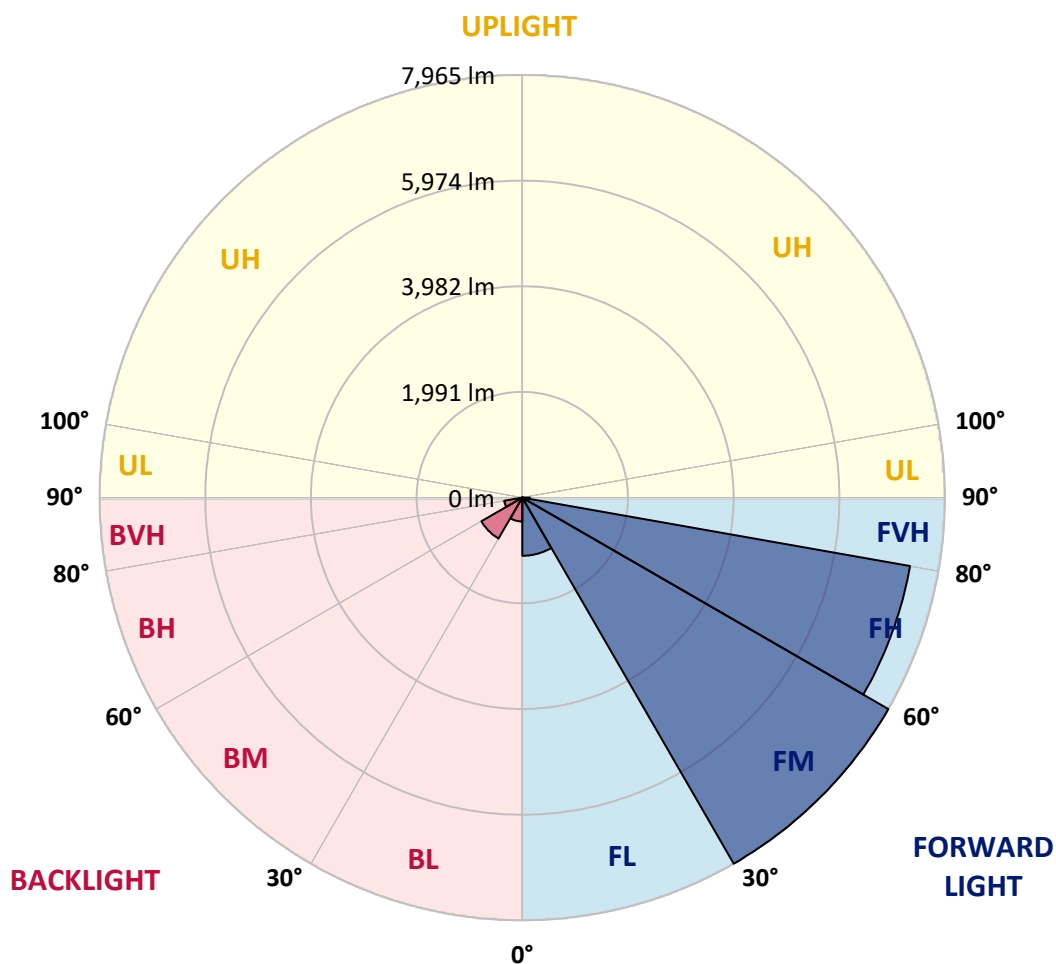
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1095.1	6.0			
FM (30°-60°)	7964.9	43.5			
FH (60°-80°)	7419.0	40.5			G3/7500
FVH (80°-90°)	144.1	0.8			G2/225
BL (0°-30°)	449.5	2.5	B1/500		
BM (30°-60°)	890.1	4.9	B1/1000		
BH (60°-80°)	345.5	1.9	B1/500		G1/500
BVH (80°-90°)	2.0	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1704.1	1704.1	1704.1	1704.1	1704.1	1704.1	1704.1	1704.1	1704.1	1704.1	1704.1
2.5°	1918.2	1909.8	1905.6	1883.2	1866.4	1845.4	1845.4	1818.8	1788.1	1754.5	1723.7
5°	2132.2	2118.3	2100.1	2080.5	2041.3	1985.3	1985.3	1929.4	1865.0	1807.6	1744.7
7.5°	2337.9	2325.3	2294.5	2256.8	2192.4	2133.6	2129.4	2048.3	1971.3	1884.6	1795.1
10°	2518.4	2508.6	2482.0	2409.3	2342.1	2265.2	2263.8	2172.8	2083.3	1976.9	1866.4
12.5°	2644.3	2645.7	2610.7	2540.8	2454.0	2381.3	2375.7	2286.1	2192.4	2077.7	1942.0
15°	2733.9	2733.9	2697.5	2619.1	2540.8	2476.4	2470.8	2392.5	2295.9	2171.4	2024.5
17.5°	2759.0	2767.4	2728.3	2658.3	2595.3	2539.4	2538.0	2472.2	2395.3	2275.0	2108.5
20°	2749.2	2757.6	2726.9	2672.3	2628.9	2596.7	2592.5	2566.0	2494.6	2381.3	2198.0
22.5°	2728.3	2736.7	2714.3	2682.1	2661.1	2670.9	2663.9	2686.3	2648.5	2511.4	2304.3
25°	2732.5	2740.9	2724.1	2705.9	2724.1	2784.2	2802.4	2899.0	2865.4	2676.5	2419.1
27.5°	2864.0	2880.8	2857.0	2865.4	2929.7	3069.6	3104.6	3271.1	3122.8	2886.4	2598.1
30°	3156.4	3145.2	3100.4	3141.0	3364.9	3661.5	3651.7	3625.1	3392.8	3128.4	2810.8
32.5°	3422.2	3412.4	3409.6	3584.5	3990.3	4134.4	4127.4	3869.9	3634.9	3405.4	3020.7
35°	3530.0	3492.2	3483.8	3907.7	4586.3	4396.0	4352.6	3970.7	3928.7	3707.6	3234.7
37.5°	3854.5	3828.0	3697.8	3960.9	4348.4	4285.5	4251.9	4144.2	4242.1	3974.9	3476.8
40°	4523.3	4449.2	4331.6	4074.2	4011.2	4037.8	4071.4	4366.6	4612.9	4340.0	3800.0
42.5°	5354.4	5337.6	5119.3	4639.4	4167.9	4204.3	4247.7	4831.1	5145.9	4889.9	4327.4
45°	6352.0	6375.7	6060.9	5494.3	4875.9	4906.7	4969.6	5516.7	5867.9	5744.7	5157.1
47.5°	7258.6	7240.4	7134.1	6545.0	5974.2	5905.6	6007.8	6396.7	6866.8	6886.4	6186.9
50°	8170.8	8267.3	8109.2	7878.4	7454.5	7310.3	7272.6	7462.8	8179.2	8085.5	7423.7
52.5°	9481.8	9532.1	9235.5	9176.8	9273.3	8806.0	8768.2	8814.4	9455.2	9133.4	8349.9
55°	10305.8	10276.5	10165.9	10624.8	11006.8	10423.4	10375.8	10189.7	10514.3	9873.5	9241.1
57.5°	10566.1	10608.0	10865.5	11695.2	12599.0	12103.7	12016.9	11488.1	11278.2	10563.3	10061.0
60°	10449.9	10526.9	11082.3	12316.4	13570.0	13495.8	13421.7	12533.2	11826.7	11139.7	10636.0
62.5°	9623.1	9730.8	10619.2	12205.8	13898.8	14361.9	14269.5	13185.2	12191.8	11419.5	10736.8
65°	8064.5	8144.2	9420.2	11202.7	13431.4	14658.5	14624.9	13389.5	12249.2	11163.5	10047.0
67.5°	5748.9	6020.4	7202.6	9441.2	12049.1	14152.0	14209.4	13144.6	11710.5	10056.8	8320.5
70°	3613.9	3798.6	4646.4	6759.1	9659.4	12415.7	12604.6	12023.9	10163.1	7839.2	5569.9
72.5°	1723.7	1860.8	2465.2	4278.5	6817.9	9768.6	9918.3	9870.7	7858.8	4938.9	2873.8
75°	768.1	819.9	1176.7	2184.0	4401.6	6566.0	6953.6	7017.9	4910.9	2416.3	1117.9
77.5°	391.8	393.1	551.2	1057.7	2198.0	3917.5	3994.5	4219.7	2662.5	1064.7	389.0
80°	208.5	222.5	292.4	499.5	1140.3	1929.4	1919.6	2109.9	1180.8	521.9	130.1
82.5°	93.7	103.5	165.1	261.6	556.8	731.7	789.1	863.3	506.5	333.0	57.4
85°	28.0	33.6	81.1	131.5	201.5	211.3	236.4	305.0	286.8	236.4	29.4
87.5°	4.2	4.2	33.6	36.4	29.4	37.8	39.2	43.4	92.3	86.7	15.4
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°	1704.1	1704.1	1704.1	1704.1	1704.1	1704.1	1704.1	1704.1	1704.1	1704.1	1704.1
2.5°	1706.9	1697.1	1662.1	1632.8	1607.6	1592.2	1574.0	1562.8	1557.2	1553.0	1554.4
5°	1713.9	1690.1	1630.0	1582.4	1546.0	1506.8	1480.3	1464.9	1457.9	1446.7	1446.7
7.5°	1753.1	1715.3	1631.4	1558.6	1495.6	1442.5	1392.1	1373.9	1361.3	1358.5	1355.7
10°	1809.0	1761.5	1646.8	1546.0	1456.5	1383.7	1312.4	1249.4	1200.4	1171.1	1166.9
12.5°	1879.0	1810.4	1670.5	1537.6	1422.9	1294.2	1105.3	978.0	892.6	866.0	870.2
15°	1943.4	1869.2	1694.3	1530.6	1361.3	1073.1	859.1	713.5	670.2	666.0	667.4
17.5°	2020.3	1932.2	1722.3	1520.8	1192.0	819.9	638.0	598.8	607.2	621.2	619.8
20°	2100.1	1999.3	1755.9	1462.1	951.4	617.0	563.8	568.0	580.6	593.2	596.0
22.5°	2185.4	2076.3	1795.1	1320.8	726.1	537.3	534.5	540.1	552.6	566.6	569.4
25°	2302.9	2172.8	1824.4	1136.1	549.8	496.7	502.3	512.1	523.3	538.7	541.5
27.5°	2454.0	2302.9	1839.8	895.4	475.7	460.3	461.7	475.7	489.7	503.7	503.7
30°	2649.9	2458.2	1809.0	677.2	439.3	425.3	419.7	428.1	446.3	460.3	461.7
32.5°	2824.8	2605.1	1727.9	517.7	412.7	393.1	379.2	380.6	387.6	395.9	397.3
35°	2999.7	2747.9	1589.4	435.1	384.8	362.4	341.4	330.2	324.6	320.4	324.6
37.5°	3223.5	2925.5	1404.7	395.9	361.0	333.0	303.6	279.8	260.2	247.6	250.4
40°	3511.8	3171.8	1186.4	370.8	338.6	305.0	265.8	235.1	201.5	190.3	184.7
42.5°	3987.5	3545.3	957.0	349.8	316.2	275.6	226.7	184.7	153.9	142.7	145.5
45°	4738.8	4016.8	737.3	327.4	293.8	243.4	190.3	145.5	120.3	114.7	117.5
47.5°	5734.9	4626.9	568.0	302.2	265.8	208.5	149.7	114.7	99.3	97.9	96.5
50°	6672.4	5194.9	474.3	274.2	232.3	173.5	123.1	96.5	86.7	85.3	85.3
52.5°	7520.2	5602.0	386.2	242.0	195.9	142.7	103.5	85.3	77.0	72.8	72.8
55°	8274.3	5867.9	313.4	202.9	153.9	113.3	89.5	77.0	67.2	61.6	60.2
57.5°	8843.8	5900.0	235.1	162.3	114.7	88.1	77.0	67.2	56.0	49.0	46.2
60°	9087.2	5621.6	173.5	123.1	85.3	70.0	61.6	54.6	42.0	35.0	33.6
62.5°	8842.4	5080.2	128.7	93.7	65.8	51.8	43.4	40.6	29.4	21.0	19.6
65°	7965.1	4298.1	102.1	71.4	49.0	37.8	28.0	26.6	18.2	9.8	8.4
67.5°	6381.3	3366.3	81.1	53.2	35.0	25.2	18.2	16.8	9.8	2.8	2.8
70°	4149.8	2151.8	65.8	39.2	22.4	16.8	11.2	8.4	5.6	1.4	0.0
72.5°	2052.5	1006.0	53.2	30.8	15.4	8.4	4.2	2.8	4.2	0.0	0.0
75°	796.1	358.2	39.2	21.0	8.4	4.2	2.8	0.0	1.4	0.0	0.0
77.5°	264.4	118.9	23.8	11.2	5.6	2.8	0.0	0.0	0.0	0.0	0.0
80°	97.9	46.2	12.6	7.0	2.8	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	39.2	18.2	8.4	5.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.6	11.2	5.6	4.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.0	8.4	5.6	4.2	2.8	1.4	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)