

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: P648074

Luminaire Tested: **GALN-SA7A-835-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648074
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-SA7A-835-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 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: 17959.7 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

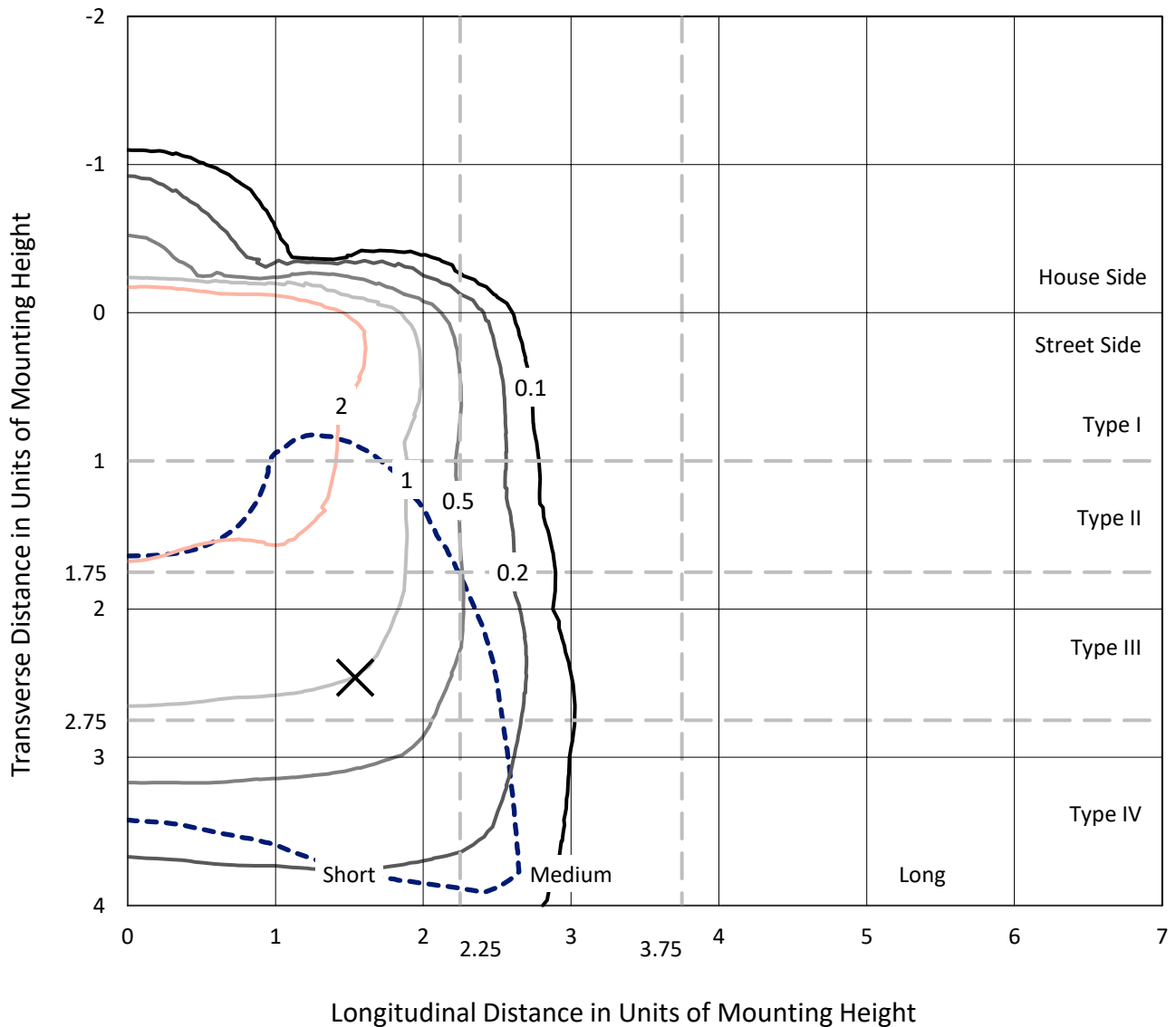
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648074
 CATALOG NUMBER: GALN-SA7A-835-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

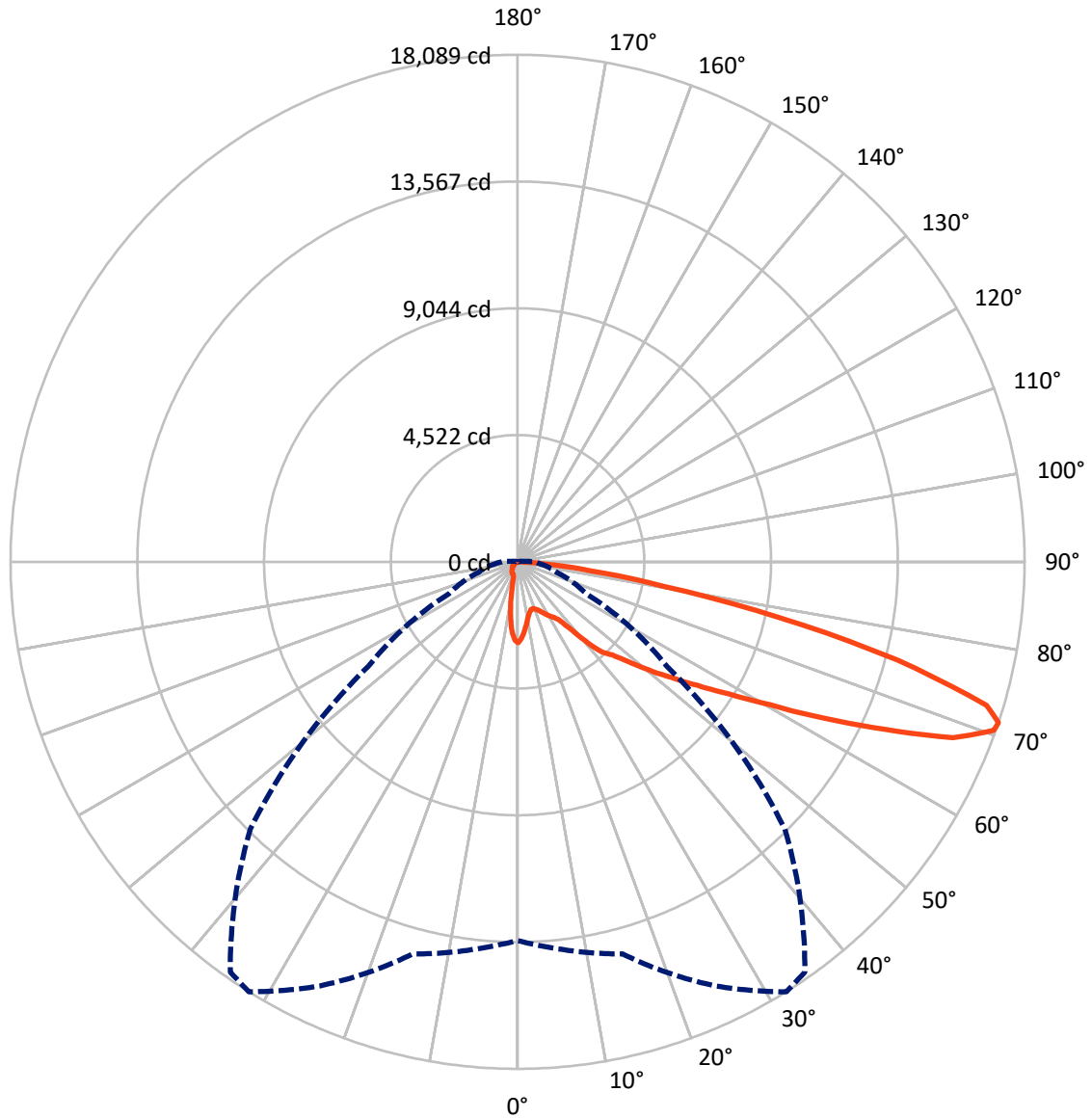
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P648074
CATALOG NUMBER: GALN-SA7A-835-U-T4FT-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P648074
 CATALOG NUMBER: GALN-SA7A-835-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1504.3	0.0	1504.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	16455.4	0.0	16455.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	17959.7	0.0	17959.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.8	1.3
10°-20°	509.7	2.8
20°-30°	792.9	4.4
30°-40°	1321.0	7.4
40°-50°	2457.3	13.7
50°-60°	3945.3	22.0
60°-70°	5306.7	29.5
70°-80°	3148.5	17.5
80°-90°	243.4	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°	17959.7	100.0
0°-180°	17959.7	100.0

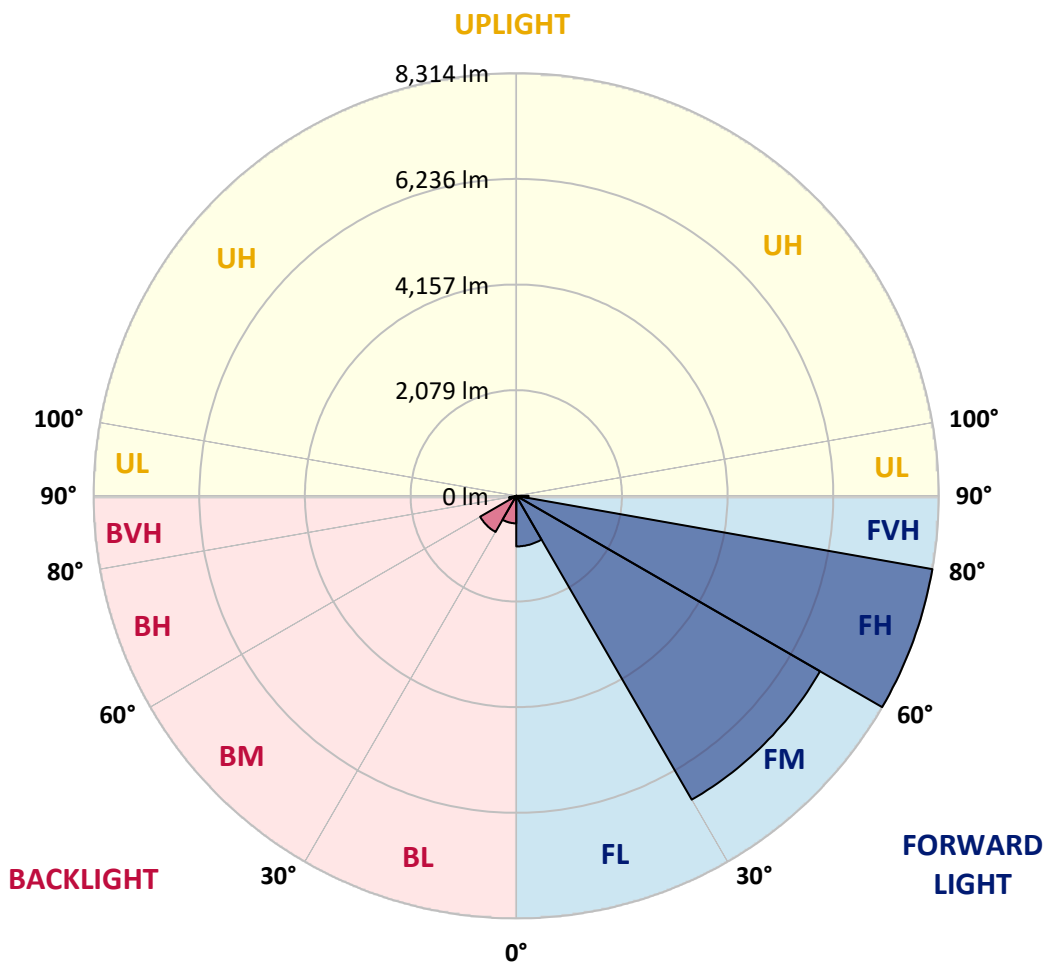


REPORT NUMBER: P648074
 CATALOG NUMBER: GALN-SA7A-835-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	995.4	5.5			
FM (30°-60°)	6903.0	38.4			
FH (60°-80°)	8314.5	46.3			G4/12000
FVH (80°-90°)	242.4	1.3			G3/500
BL (0°-30°)	542.0	3.0	B2/1000		
BM (30°-60°)	820.6	4.6	B1/1000		
BH (60°-80°)	140.7	0.8	B1/500		G1/500
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





REPORT NUMBER: P648074

CATALOG NUMBER: GALN-SA7A-835-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	2888.2	2888.2	2888.2	2888.2	2888.2	2888.2	2888.2	2888.2	2888.2	2888.2	2888.2
2.5°	2678.6	2706.2	2702.1	2711.8	2735.2	2744.8	2771.0	2799.9	2839.9	2867.5	2885.4
5°	2398.8	2419.5	2422.2	2470.4	2493.9	2520.1	2597.3	2681.4	2775.2	2849.6	2899.2
7.5°	2099.6	2110.7	2132.7	2196.2	2255.4	2281.6	2398.8	2544.9	2692.4	2831.6	2921.3
10°	1852.9	1865.3	1905.3	1972.8	2028.0	2062.4	2225.1	2408.4	2615.2	2822.0	2953.0
12.5°	1712.3	1719.2	1734.3	1794.9	1865.3	1902.5	2077.5	2287.1	2553.2	2826.2	3006.7
15°	1702.6	1699.8	1681.9	1706.7	1770.1	1808.7	1979.7	2204.4	2498.1	2839.9	3070.1
17.5°	1753.6	1746.7	1704.0	1704.0	1756.3	1788.1	1938.3	2160.3	2470.4	2871.7	3159.8
20°	1832.1	1821.2	1750.9	1745.3	1796.4	1829.4	1963.1	2163.0	2476.0	2930.9	3279.8
22.5°	1931.4	1919.1	1812.9	1815.6	1870.7	1903.9	2034.9	2212.7	2510.5	3004.0	3407.9
25°	2061.0	2047.2	1921.8	1916.2	1974.2	2003.1	2141.0	2300.9	2558.7	3095.0	3576.1
27.5°	2233.4	2204.4	2054.1	2045.9	2107.9	2145.1	2269.2	2419.5	2644.2	3220.5	3802.2
30°	2375.4	2343.7	2200.2	2178.2	2244.4	2273.4	2401.5	2579.4	2812.4	3439.6	4115.1
32.5°	2561.4	2514.6	2346.4	2288.5	2358.8	2396.1	2593.1	2877.1	3061.9	3671.3	4487.4
35°	2980.6	2951.6	2746.2	2543.6	2539.4	2586.2	2875.8	3177.7	3318.4	4032.4	4994.7
37.5°	3580.3	3559.6	3341.8	3070.1	2991.6	2969.5	3219.1	3508.5	3727.8	4528.7	5584.7
40°	4276.4	4228.2	4028.3	3798.1	3696.1	3631.2	3624.4	4000.7	4262.7	5202.9	6199.6
42.5°	4775.5	4687.3	4444.6	4428.1	4406.0	4338.5	4142.7	4720.4	4953.3	5928.0	6857.2
45°	5299.4	5165.7	4804.5	4742.4	4734.2	4730.0	4925.8	5572.4	5706.1	6713.8	7532.8
47.5°	5706.1	5599.9	5303.5	5275.9	5310.4	5404.2	5961.1	6476.7	6449.2	7414.1	8099.4
50°	6247.9	6167.9	5838.4	5890.8	6068.6	6221.7	7128.8	7462.5	7059.9	7965.6	8511.5
52.5°	6887.6	6740.1	6434.0	6576.0	6849.0	7104.0	8368.2	8325.5	7488.6	8380.6	8819.0
55°	7441.8	7336.9	7232.2	7379.7	7787.8	8106.2	9487.6	8972.0	7800.2	8714.2	8954.1
57.5°	8379.2	8354.4	8246.9	8397.1	8892.1	9223.0	10489.9	9473.8	8000.1	8887.9	8795.5
60°	9766.1	9726.1	9526.2	9717.8	10363.0	10882.8	11413.6	9924.6	8045.6	8820.3	8339.3
62.5°	11434.2	11297.8	11126.8	11409.4	12294.5	12523.3	12283.5	10192.1	7876.0	8282.7	7239.1
65°	12992.1	12851.5	12855.6	13451.2	14414.8	14570.5	13298.1	10152.1	7379.7	6935.8	5339.4
67.5°	14184.6	14161.1	14329.3	15491.5	16751.5	16644.0	14205.3	9553.8	5908.8	4495.7	2837.2
70°	14245.2	14290.7	14773.3	16735.0	18014.3	17843.4	14128.1	7765.7	3683.6	2067.9	1118.0
71°	13511.8	13817.8	14485.1	16696.4	18088.8	17866.8	13477.3	6504.3	2702.1	1442.1	806.5
72.5°	11514.2	11675.5	13117.5	15713.4	17500.1	17025.9	11827.1	4559.1	1730.2	882.3	463.2
75°	6341.6	6738.7	8784.6	12327.6	13997.1	13580.7	7707.9	2165.8	863.0	482.5	191.6
77.5°	3019.2	2942.0	4286.1	7331.5	9490.4	9468.3	3883.5	962.3	503.2	326.7	96.5
80°	863.0	970.5	1640.5	3485.1	5269.0	5327.0	1491.7	464.6	348.8	255.0	49.6
82.5°	260.6	266.1	602.4	1541.3	2620.8	2470.4	559.7	237.1	250.9	202.6	29.0
85°	45.5	56.5	177.8	543.2	999.5	758.3	140.6	113.1	165.4	133.7	16.5
87.5°	2.7	4.1	59.3	62.0	88.2	51.0	24.8	16.5	35.9	35.9	9.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P648074

CATALOG NUMBER: GALN-SA7A-835-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2888.2	2888.2	2888.2	2888.2	2888.2	2888.2	2888.2	2888.2	2888.2	2888.2	2888.2
2.5°	2897.9	2906.1	2900.6	2888.2	2867.5	2842.7	2809.6	2782.1	2758.6	2746.2	2761.3
5°	2915.7	2926.8	2899.2	2837.2	2743.5	2641.5	2525.6	2436.0	2365.7	2343.7	2335.4
7.5°	2943.4	2950.3	2875.8	2737.9	2539.4	2298.2	2087.2	1909.3	1771.5	1730.2	1669.5
10°	2979.2	2975.1	2834.5	2578.0	2229.2	1866.7	1539.9	1297.3	1113.9	1047.7	1042.3
12.5°	3034.4	3012.3	2782.1	2360.2	1859.8	1385.5	981.6	767.9	652.1	613.5	605.2
15°	3103.3	3050.9	2699.3	2105.2	1424.1	894.7	605.2	540.4	525.2	522.5	519.8
17.5°	3184.6	3101.9	2590.4	1792.2	1000.9	580.4	506.0	504.6	506.0	503.2	501.8
20°	3294.9	3155.6	2460.8	1421.4	661.7	489.4	482.5	482.5	483.9	482.5	482.5
22.5°	3412.1	3219.1	2300.9	1085.0	499.1	464.6	463.2	466.0	468.7	467.4	467.4
25°	3556.9	3301.8	2090.0	743.1	446.7	443.9	445.3	450.8	456.3	457.7	456.3
27.5°	3766.4	3403.8	1863.9	511.5	409.4	412.2	426.0	439.8	448.0	449.4	449.4
30°	4002.1	3516.8	1568.9	415.0	379.1	379.1	395.6	421.9	439.8	442.6	443.9
32.5°	4305.4	3647.8	1242.2	373.6	350.2	347.4	362.6	394.3	427.4	437.0	437.0
35°	4680.4	3802.2	923.7	347.4	329.5	322.6	330.9	357.0	399.8	427.4	430.1
37.5°	5120.2	3948.4	675.5	324.0	310.2	300.5	306.1	326.7	361.2	402.5	413.6
40°	5526.9	4077.9	504.6	304.7	290.9	284.0	288.1	297.8	326.7	365.3	372.2
42.5°	5970.8	4178.6	401.2	284.0	271.6	268.8	268.8	273.0	292.3	314.3	315.7
45°	6413.3	4214.4	336.4	259.2	250.9	253.7	252.3	249.5	257.8	255.0	255.0
47.5°	6729.0	4171.7	278.5	235.8	235.8	239.9	233.0	223.3	219.2	202.6	204.0
50°	6945.4	4015.9	228.9	208.2	219.2	224.7	210.9	195.8	180.6	162.7	158.6
52.5°	7035.1	3738.8	187.5	172.3	194.4	201.3	184.7	166.8	143.4	128.2	124.1
55°	6977.2	3396.9	155.8	140.6	164.0	172.3	155.8	135.1	108.9	92.4	89.6
57.5°	6722.1	2988.9	132.3	111.7	131.0	136.5	125.4	103.4	77.2	60.7	60.7
60°	6281.0	2567.0	107.5	88.2	97.9	106.2	95.1	74.5	52.4	37.2	34.5
62.5°	5386.3	2084.5	86.8	68.9	68.9	75.8	66.2	53.8	33.1	19.3	17.9
65°	3889.1	1429.6	68.9	51.0	49.6	49.6	41.3	35.9	19.3	8.3	5.5
67.5°	2113.4	806.5	55.1	38.6	34.5	33.1	26.2	20.7	8.3	1.4	0.0
70°	831.3	310.2	42.8	26.2	22.1	20.7	13.8	9.6	5.5	0.0	0.0
71°	563.8	213.7	37.2	22.1	17.9	15.2	11.0	8.3	4.1	0.0	0.0
72.5°	322.6	132.3	29.0	16.5	13.8	11.0	8.3	5.5	4.1	0.0	0.0
75°	140.6	67.6	17.9	12.4	9.6	6.9	5.5	4.1	1.4	0.0	0.0
77.5°	71.7	37.2	12.4	9.6	5.5	4.1	2.7	1.4	0.0	0.0	0.0
80°	40.0	19.3	8.3	5.5	4.1	2.7	1.4	1.4	0.0	0.0	0.0
82.5°	22.1	11.0	4.1	2.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.8	6.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.9	2.7	0.0	0.0	0.0	0.0	1.4	1.4	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)