

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: P646974

Luminaire Tested: **GALN-SA5C-835-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646974
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-SA5C-835-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1050mA 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: 19851.4 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

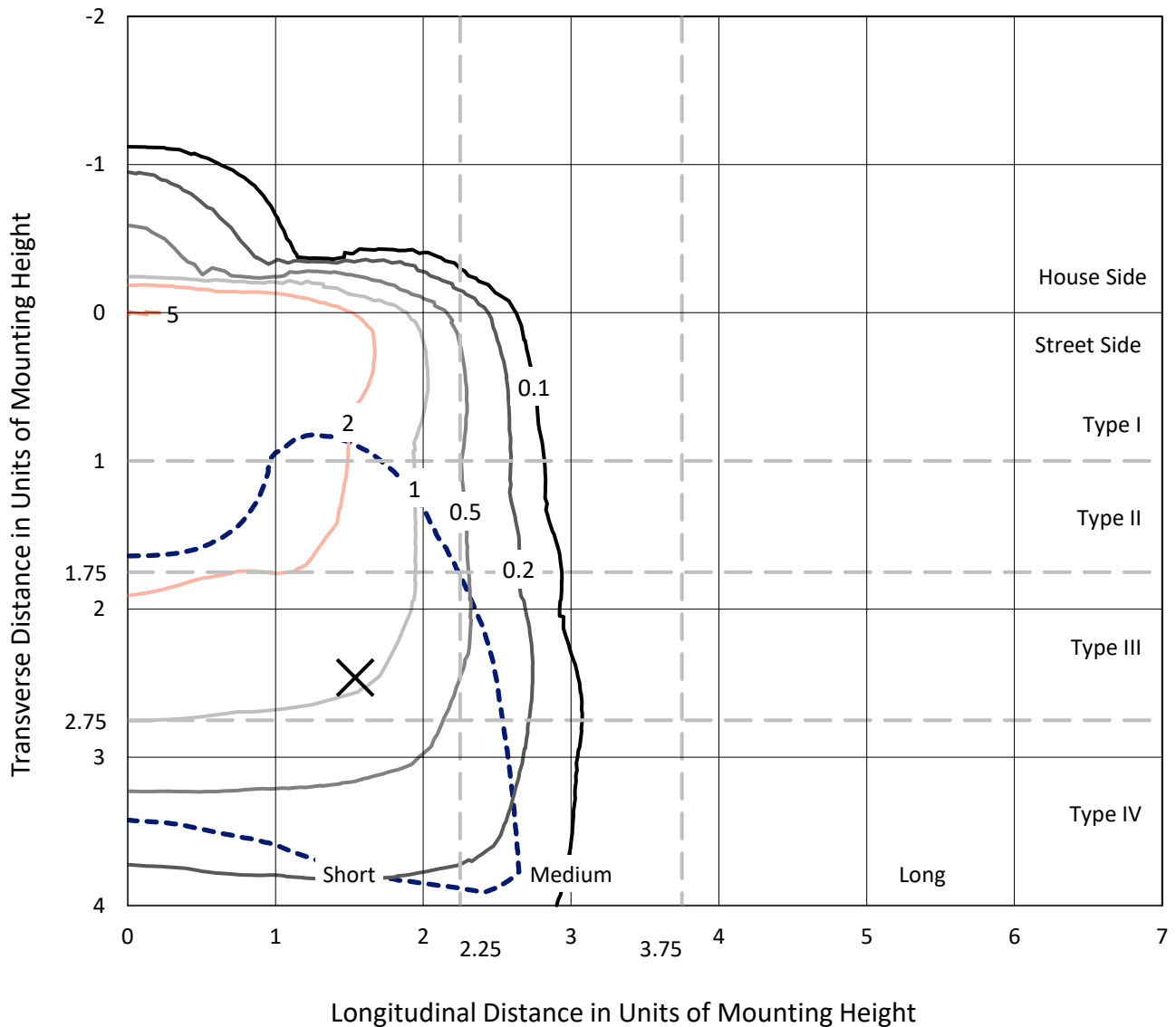
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

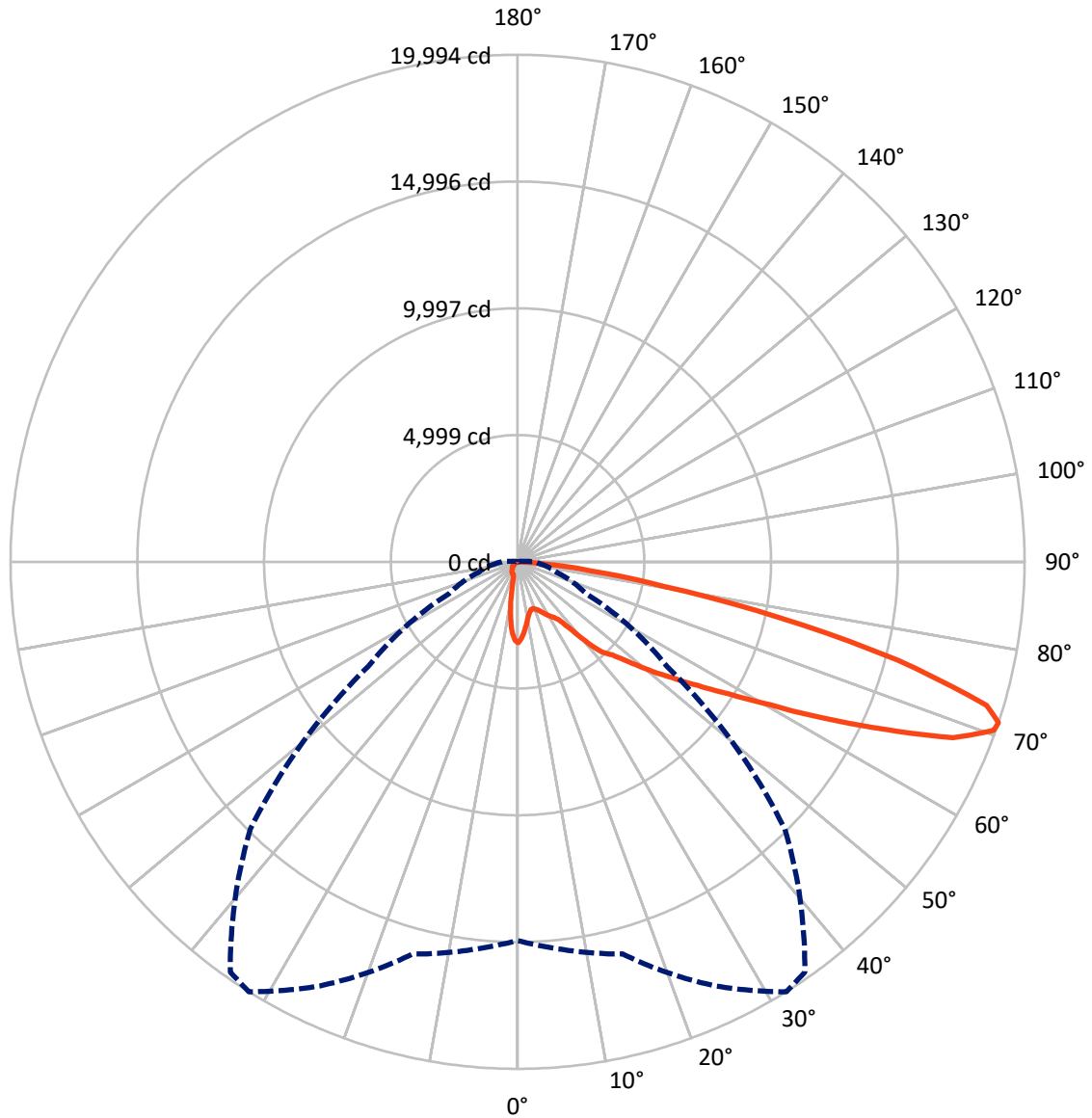
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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
House Side	Lumens	1662.8	0.0	1662.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	18188.6	0.0	18188.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	19851.4	0.0	19851.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.6	1.3
10°-20°	563.4	2.8
20°-30°	876.5	4.4
30°-40°	1460.2	7.4
40°-50°	2716.2	13.7
50°-60°	4360.9	22.0
60°-70°	5865.6	29.5
70°-80°	3480.1	17.5
80°-90°	269.0	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°	19851.4	100.0
0°-180°	19851.4	100.0

Coefficient of Utilization

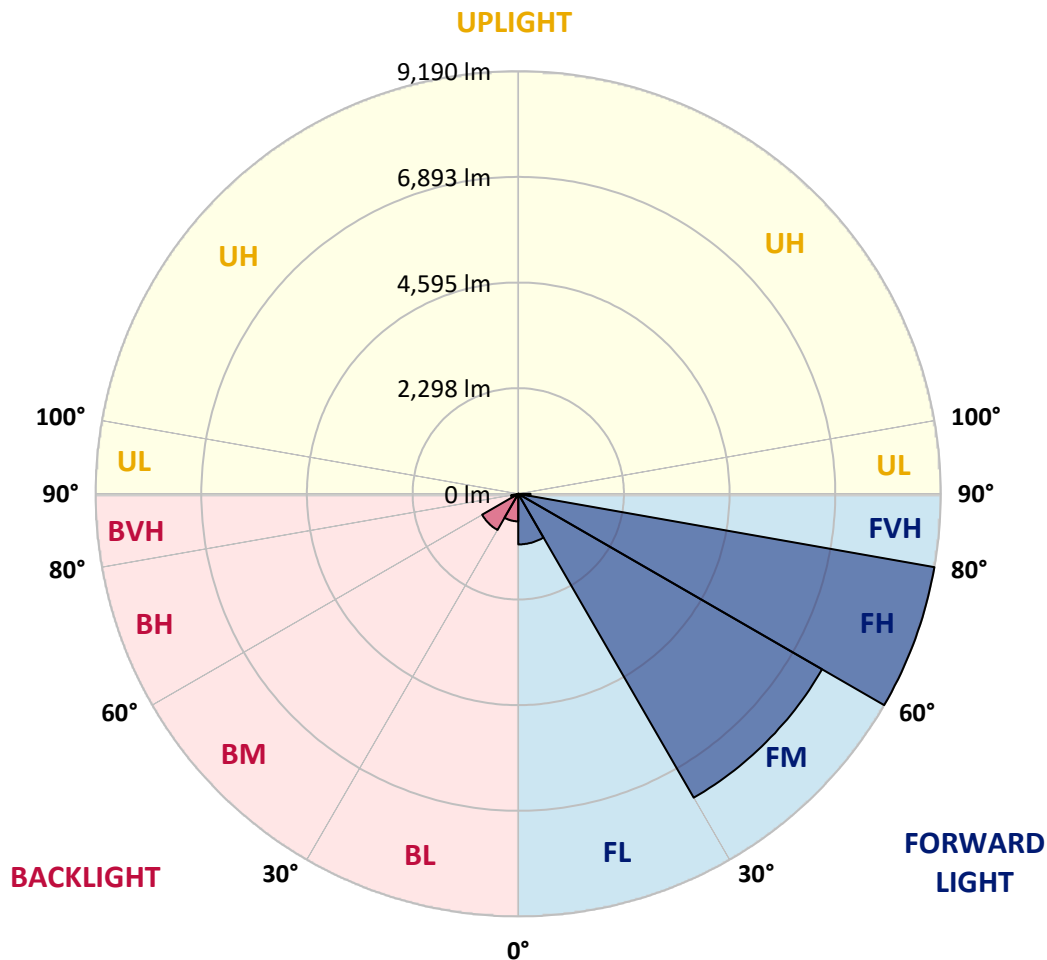


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1100.3	5.5			
FM (30°-60°)	7630.1	38.4			
FH (60°-80°)	9190.2	46.3			G4/12000
FVH (80°-90°)	268.0	1.3			G3/500
BL (0°-30°)	599.1	3.0	B2/1000		
BM (30°-60°)	907.1	4.6	B1/1000		
BH (60°-80°)	155.5	0.8	B1/500		G1/500
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	3192.4	3192.4	3192.4	3192.4	3192.4	3192.4	3192.4	3192.4	3192.4	3192.4	3192.4
2.5°	2960.8	2991.3	2986.7	2997.4	3023.2	3034.0	3062.9	3094.9	3139.0	3169.6	3189.4
5°	2651.5	2674.3	2677.4	2730.7	2756.6	2785.5	2870.9	2963.8	3067.5	3149.8	3204.6
7.5°	2320.8	2332.9	2357.4	2427.5	2493.0	2522.0	2651.5	2813.0	2976.0	3130.0	3229.0
10°	2048.0	2061.7	2106.0	2180.6	2241.6	2279.6	2459.5	2662.1	2890.7	3119.2	3264.0
12.5°	1892.6	1900.2	1916.9	1984.0	2061.7	2102.9	2296.4	2528.0	2822.1	3123.9	3323.4
15°	1881.9	1878.9	1859.1	1886.5	1956.6	1999.2	2188.3	2436.6	2761.2	3139.0	3393.5
17.5°	1938.3	1930.7	1883.4	1883.4	1941.4	1976.4	2142.5	2387.8	2730.7	3174.1	3492.6
20°	2025.2	2012.9	1935.3	1929.2	1985.5	2022.1	2169.9	2390.9	2736.8	3239.7	3625.2
22.5°	2134.8	2121.1	2003.9	2006.9	2067.8	2104.4	2249.2	2445.8	2774.9	3320.4	3766.9
25°	2278.1	2262.9	2124.2	2118.1	2182.1	2214.1	2366.5	2543.3	2828.2	3421.0	3952.8
27.5°	2468.6	2436.6	2270.5	2261.4	2329.9	2371.1	2508.2	2674.3	2922.7	3559.7	4202.7
30°	2625.6	2590.5	2432.0	2407.6	2480.8	2512.8	2654.5	2851.1	3108.6	3801.9	4548.6
32.5°	2831.2	2779.5	2593.5	2529.6	2607.2	2648.4	2866.3	3180.2	3384.4	4058.0	4960.1
35°	3294.5	3262.5	3035.5	2811.4	2806.9	2858.7	3178.7	3512.4	3667.9	4457.2	5520.9
37.5°	3957.4	3934.5	3693.7	3393.5	3306.7	3282.3	3558.1	3878.1	4120.5	5005.8	6173.0
40°	4726.9	4673.6	4452.6	4198.1	4085.4	4013.7	4006.1	4422.1	4711.7	5750.9	6852.7
42.5°	5278.5	5181.0	4912.8	4894.5	4870.2	4795.5	4579.1	5217.6	5475.1	6552.5	7579.5
45°	5857.6	5709.8	5310.5	5242.0	5232.8	5228.2	5444.6	6159.3	6307.1	7421.0	8326.2
47.5°	6307.1	6189.8	5862.2	5831.7	5869.8	5973.4	6589.0	7159.0	7128.4	8195.1	8952.5
50°	6906.0	6817.6	6453.4	6511.3	6707.9	6877.0	7879.7	8248.4	7803.5	8804.7	9408.1
52.5°	7613.0	7450.0	7111.7	7268.7	7570.4	7852.2	9249.7	9202.4	8277.4	9263.4	9747.9
55°	8225.6	8109.8	7994.0	8157.1	8608.1	8960.1	10487.0	9917.1	8621.8	9632.1	9897.3
57.5°	9261.8	9234.4	9115.5	9281.6	9828.7	10194.4	11594.8	10471.8	8842.7	9824.1	9722.0
60°	10794.8	10750.6	10529.6	10741.4	11454.6	12029.1	12615.8	10970.0	8893.1	9749.4	9217.6
62.5°	12638.6	12487.8	12298.8	12611.2	13589.5	13842.4	13577.3	11265.6	8705.6	9155.1	8001.6
65°	14360.5	14205.1	14209.6	14868.0	15933.1	16105.3	14698.8	11221.5	8157.1	7666.4	5901.8
67.5°	15678.6	15652.7	15838.7	17123.2	18516.0	18397.1	15701.5	10560.1	6531.1	4969.2	3136.1
70°	15745.7	15796.0	16329.3	18497.7	19911.8	19722.9	15616.2	8583.7	4071.7	2285.7	1235.8
71°	14935.0	15273.3	16010.9	18455.1	19994.1	19748.7	14896.9	7189.4	2986.7	1594.0	891.4
72.5°	12727.0	12905.2	14499.2	17368.6	19343.5	18819.2	13072.9	5039.3	1912.4	975.2	512.0
75°	7009.6	7448.4	9709.8	13626.1	15471.4	15011.2	8519.7	2393.9	953.9	533.3	211.8
77.5°	3337.1	3251.9	4737.5	8103.7	10490.0	10465.7	4292.6	1063.6	556.2	361.1	106.6
80°	953.9	1072.8	1813.3	3852.2	5824.0	5888.1	1648.8	513.5	385.5	281.9	54.9
82.5°	288.0	294.1	665.9	1703.7	2896.8	2730.7	618.6	262.1	277.3	224.0	32.0
85°	50.3	62.5	196.6	600.4	1104.7	838.1	155.4	125.0	182.8	147.8	18.3
87.5°	3.1	4.5	65.5	68.6	97.6	56.4	27.4	18.3	39.6	39.6	10.6
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°	3192.4	3192.4	3192.4	3192.4	3192.4	3192.4	3192.4	3192.4	3192.4	3192.4	3192.4
2.5°	3203.1	3212.3	3206.2	3192.4	3169.6	3142.1	3105.5	3075.1	3049.2	3035.5	3052.2
5°	3222.9	3235.1	3204.6	3136.1	3032.4	2919.7	2791.6	2692.6	2614.9	2590.5	2581.4
7.5°	3253.4	3261.0	3178.7	3026.3	2806.9	2540.2	2307.1	2110.5	1958.1	1912.4	1845.4
10°	3293.0	3288.4	3133.0	2849.6	2464.0	2063.3	1702.1	1433.9	1231.3	1158.1	1152.0
12.5°	3353.9	3329.6	3075.1	2608.8	2055.6	1531.5	1085.0	848.8	720.8	678.1	669.0
15°	3430.2	3372.2	2983.6	2326.9	1574.1	988.9	669.0	597.4	580.6	577.5	574.5
17.5°	3520.1	3428.6	2863.3	1981.0	1106.3	641.5	559.2	557.7	559.2	556.2	554.7
20°	3642.0	3488.0	2720.1	1571.1	731.4	541.0	533.3	533.3	534.9	533.3	533.3
22.5°	3771.5	3558.1	2543.3	1199.2	551.6	513.5	512.0	515.1	518.1	516.5	516.5
25°	3931.4	3649.6	2310.1	821.4	493.7	490.7	492.2	498.3	504.4	505.9	504.4
27.5°	4163.1	3762.3	2060.2	565.3	452.6	455.6	470.9	486.1	495.2	496.7	496.7
30°	4423.6	3887.3	1734.1	458.7	419.1	419.1	437.3	466.3	486.1	489.1	490.7
32.5°	4758.9	4032.1	1373.0	413.0	387.0	384.0	400.7	435.8	472.4	483.0	483.0
35°	5173.4	4202.7	1021.0	384.0	364.2	356.6	365.7	394.6	441.9	472.4	475.4
37.5°	5659.5	4364.2	746.7	358.1	342.9	332.2	338.3	361.1	399.3	445.0	457.1
40°	6109.0	4507.5	557.7	336.8	321.5	313.9	318.4	329.2	361.1	403.8	411.5
42.5°	6599.7	4618.7	443.4	313.9	300.2	297.1	297.1	301.7	323.1	347.4	349.0
45°	7088.8	4658.3	371.8	286.5	277.3	280.4	278.8	275.9	284.9	281.9	281.9
47.5°	7437.8	4611.1	307.8	260.6	260.6	265.1	257.5	246.9	242.3	224.0	225.5
50°	7677.0	4438.9	253.0	230.1	242.3	248.4	233.2	216.4	199.6	179.8	175.2
52.5°	7776.1	4132.6	207.3	190.5	214.9	222.5	204.2	184.4	158.5	141.7	137.2
55°	7712.1	3754.7	172.2	155.4	181.3	190.5	172.2	149.3	120.3	102.1	99.0
57.5°	7430.2	3303.6	146.3	123.4	144.8	150.9	138.7	114.3	85.3	67.0	67.0
60°	6942.5	2837.4	118.9	97.6	108.2	117.4	105.2	82.3	57.9	41.1	38.1
62.5°	5953.6	2304.1	96.0	76.2	76.2	83.8	73.1	59.4	36.6	21.3	19.8
65°	4298.7	1580.2	76.2	56.4	54.9	54.9	45.7	39.6	21.3	9.2	6.1
67.5°	2336.0	891.4	60.9	42.7	38.1	36.6	29.0	22.9	9.2	1.5	0.0
70°	918.9	342.9	47.2	29.0	24.4	22.9	15.3	10.6	6.1	0.0	0.0
71°	623.3	236.2	41.1	24.4	19.8	16.8	12.2	9.2	4.5	0.0	0.0
72.5°	356.6	146.3	32.0	18.3	15.3	12.2	9.2	6.1	4.5	0.0	0.0
75°	155.4	74.7	19.8	13.7	10.6	7.6	6.1	4.5	1.5	0.0	0.0
77.5°	79.2	41.1	13.7	10.6	6.1	4.5	3.1	1.5	0.0	0.0	0.0
80°	44.2	21.3	9.2	6.1	4.5	3.1	1.5	1.5	0.0	0.0	0.0
82.5°	24.4	12.2	4.5	3.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.3	7.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.6	3.1	0.0	0.0	0.0	0.0	1.5	1.5	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)