

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: P459236

Luminaire Tested: **GALN-SA7A-735-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459236
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-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 21465 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): 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

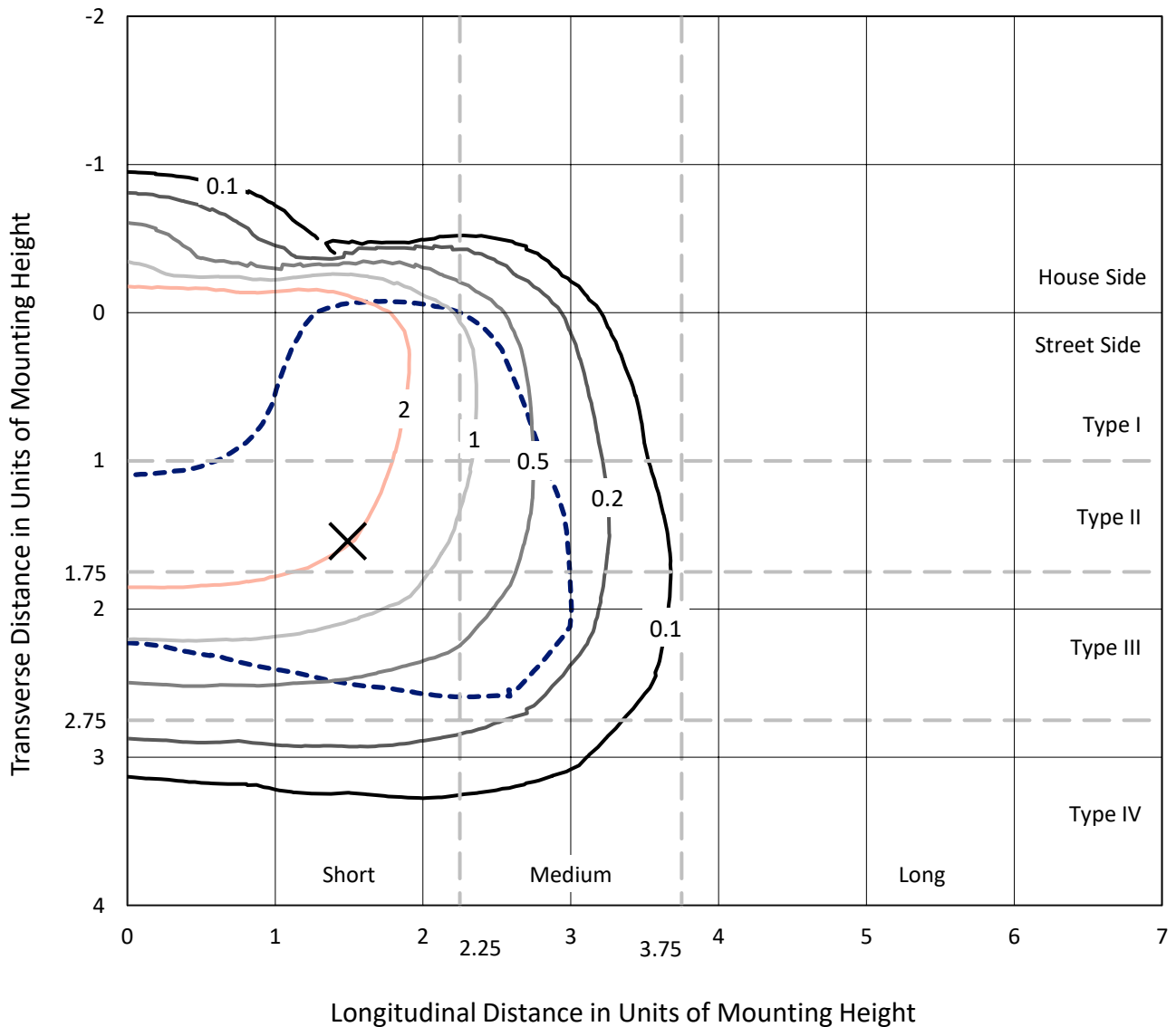




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Iso-Footcandle Lines of Horizontal Illumination

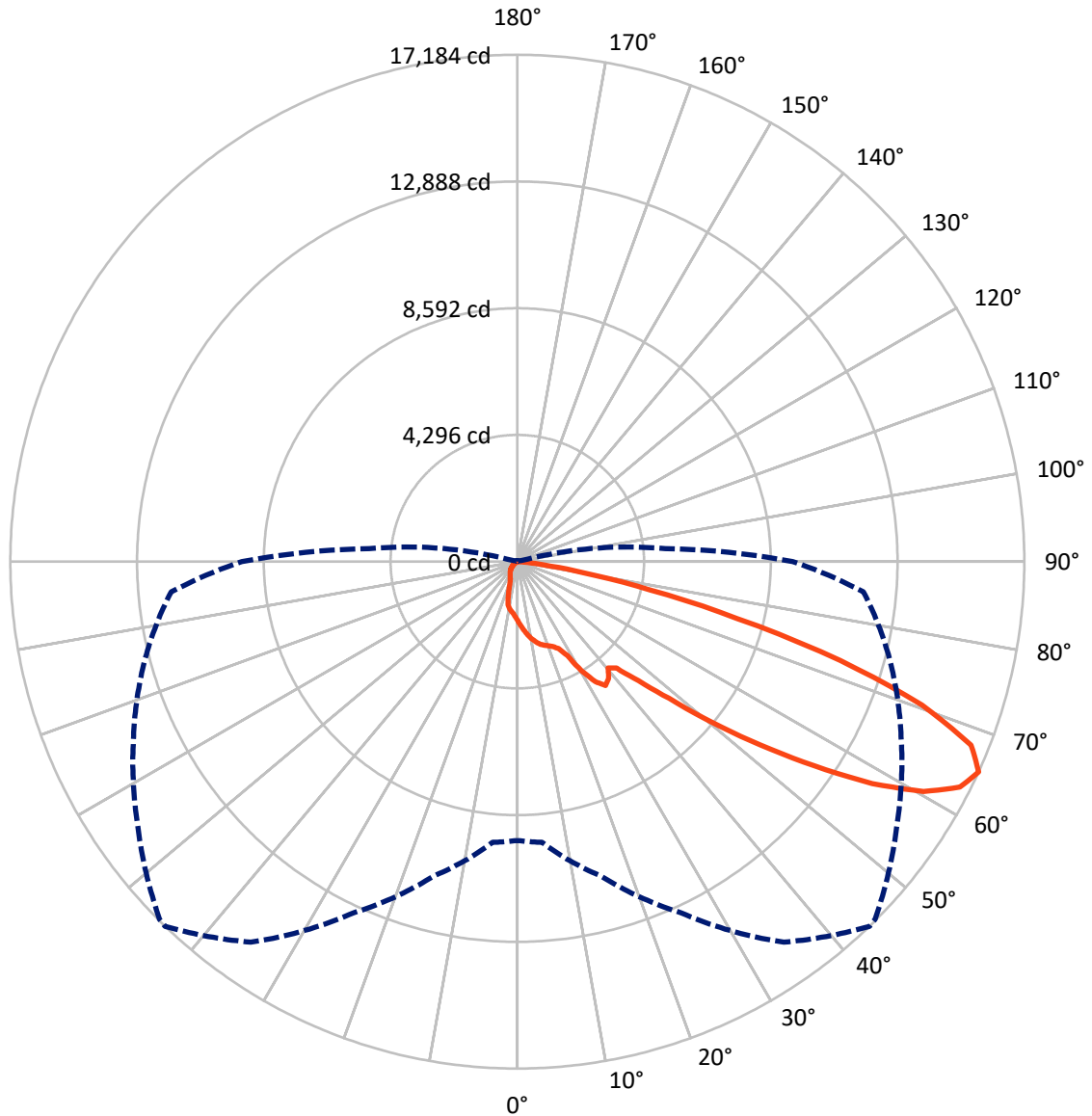
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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
House Side	Lumens	1977.7	0.0	1977.7
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	19487.3	0.0	19487.3
	% Fixture	90.8	0.0	90.8
Total	Lumens	21465.0	0.0	21465.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.7	0.9
10°-20°	598.0	2.8
20°-30°	1014.0	4.7
30°-40°	1686.0	7.9
40°-50°	2943.7	13.7
50°-60°	5751.0	26.8
60°-70°	6672.5	31.1
70°-80°	2429.8	11.3
80°-90°	171.2	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°	21465.0	100.0
0°-180°	21465.0	100.0



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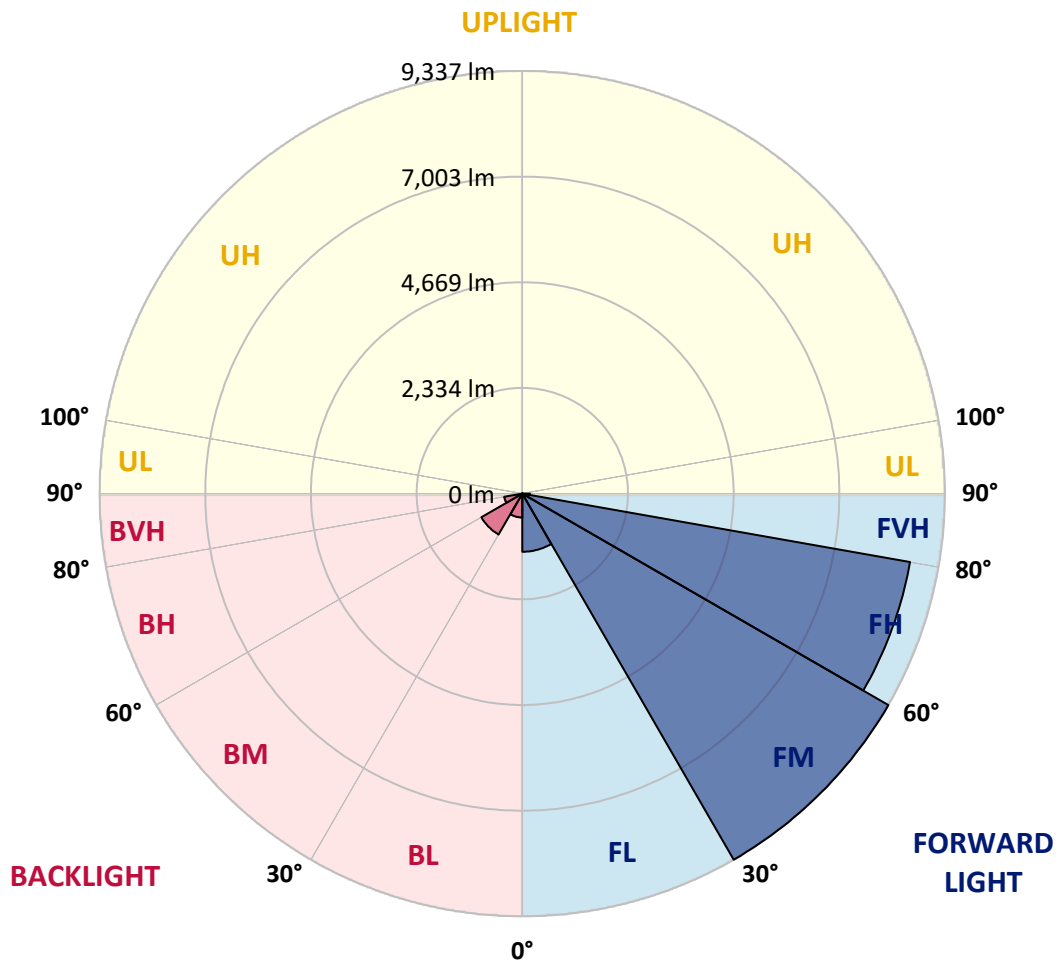
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1283.8	6.0			
FM	(30°-60°)	9337.3	43.5			
FH	(60°-80°)	8697.3	40.5			G4/12000
FVH	(80°-90°)	168.9	0.8			G2/225
BL	(0°-30°)	526.9	2.5	B2/1000		
BM	(30°-60°)	1043.4	4.9	B2/2500		
BH	(60°-80°)	405.0	1.9	B1/500		G1/500
BVH	(80°-90°)	2.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1997.8	1997.8	1997.8	1997.8	1997.8	1997.8	1997.8	1997.8	1997.8	1997.8	1997.8
2.5°	2248.7	2238.9	2233.9	2207.7	2188.0	2163.4	2163.4	2132.2	2096.2	2056.8	2020.7
5°	2499.6	2483.2	2461.9	2439.0	2393.0	2327.4	2327.4	2261.8	2186.4	2119.1	2045.3
7.5°	2740.8	2726.0	2689.9	2645.6	2570.2	2501.3	2496.4	2401.2	2311.0	2209.3	2104.4
10°	2952.3	2940.9	2909.7	2824.4	2745.7	2655.5	2653.8	2547.2	2442.2	2317.6	2188.0
12.5°	3100.0	3101.6	3060.6	2978.6	2876.9	2791.6	2785.0	2680.1	2570.2	2435.7	2276.6
15°	3204.9	3204.9	3162.3	3070.4	2978.6	2903.1	2896.6	2804.7	2691.6	2545.6	2373.4
17.5°	3234.5	3244.3	3198.4	3116.4	3042.6	2976.9	2975.3	2898.2	2808.0	2666.9	2471.8
20°	3223.0	3232.8	3196.7	3132.8	3081.9	3044.2	3039.3	3008.1	2924.5	2791.6	2576.7
22.5°	3198.4	3208.2	3182.0	3144.2	3119.6	3131.1	3122.9	3149.2	3104.9	2944.1	2701.4
25°	3203.3	3213.1	3193.4	3172.1	3193.4	3264.0	3285.3	3398.5	3359.1	3137.7	2835.9
27.5°	3357.5	3377.2	3349.3	3359.1	3434.6	3598.6	3639.6	3834.8	3660.9	3383.7	3045.8
30°	3700.3	3687.1	3634.7	3682.2	3944.7	4292.4	4280.9	4249.7	3977.5	3667.5	3295.1
32.5°	4011.9	4000.4	3997.1	4202.2	4677.8	4846.8	4838.6	4536.8	4261.2	3992.2	3541.2
35°	4138.2	4093.9	4084.1	4581.1	5376.5	5153.5	5102.6	4654.9	4605.7	4346.5	3792.1
37.5°	4518.7	4487.6	4335.0	4643.4	5097.7	5023.9	4984.5	4858.2	4973.1	4659.8	4075.9
40°	5302.7	5215.8	5078.0	4776.2	4702.4	4733.6	4773.0	5119.0	5407.7	5087.9	4454.8
42.5°	6277.0	6257.3	6001.5	5438.9	4886.1	4928.8	4979.6	5663.6	6032.6	5732.5	5073.1
45°	7446.5	7474.3	7105.3	6441.0	5716.1	5752.1	5826.0	6467.3	6879.0	6734.6	6045.7
47.5°	8509.3	8488.0	8363.3	7672.8	7003.6	6923.2	7043.0	7498.9	8050.1	8073.0	7252.9
50°	9578.7	9691.9	9506.5	9235.9	8738.9	8570.0	8525.7	8748.8	9588.6	9478.7	8702.8
52.5°	11115.6	11174.6	10826.9	10758.0	10871.2	10323.4	10279.1	10333.2	11084.4	10707.2	9788.7
55°	12081.6	12047.2	11917.6	12455.6	12903.4	12219.4	12163.6	11945.5	12326.0	11574.8	10833.5
57.5°	12386.7	12435.9	12737.7	13710.3	14769.9	14189.3	14087.6	13467.6	13221.6	12383.4	11794.6
60°	12250.6	12340.8	12991.9	14438.6	15908.2	15821.3	15734.3	14692.8	13864.5	13059.2	12468.7
62.5°	11281.2	11407.5	12449.0	14309.0	16293.6	16836.5	16728.3	15457.2	14292.6	13387.2	12586.8
65°	9454.1	9547.5	11043.4	13133.0	15745.8	17184.3	17144.9	15696.6	14359.9	13087.1	11778.2
67.5°	6739.5	7057.7	8443.7	11068.0	14125.3	16590.5	16657.8	15409.6	13728.4	11789.7	9754.2
70°	4236.6	4453.1	5447.1	7923.8	11323.9	14555.0	14776.5	14095.8	11914.3	9190.0	6529.6
72.5°	2020.7	2181.5	2890.0	5015.7	7992.6	11451.8	11627.3	11571.5	9212.9	5789.9	3369.0
75°	900.5	961.2	1379.4	2560.3	5160.0	7697.4	8151.7	8227.2	5757.1	2832.6	1310.5
77.5°	459.3	460.9	646.2	1240.0	2576.7	4592.5	4682.7	4946.8	3121.3	1248.2	456.0
80°	244.4	260.8	342.8	585.5	1336.8	2261.8	2250.3	2473.4	1384.3	611.8	152.5
82.5°	109.9	121.4	193.5	306.7	652.8	857.8	925.1	1012.0	593.7	390.4	67.2
85°	32.8	39.4	95.1	154.2	236.2	247.7	277.2	357.6	336.2	277.2	34.4
87.5°	4.9	4.9	39.4	42.6	34.4	44.3	45.9	50.8	108.3	101.7	18.0
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°	1997.8	1997.8	1997.8	1997.8	1997.8	1997.8	1997.8	1997.8	1997.8	1997.8	1997.8
2.5°	2001.0	1989.6	1948.5	1914.1	1884.6	1866.5	1845.2	1832.1	1825.5	1820.6	1822.3
5°	2009.2	1981.3	1910.8	1855.1	1812.4	1766.5	1735.3	1717.3	1709.1	1696.0	1696.0
7.5°	2055.2	2010.9	1912.5	1827.2	1753.4	1691.0	1632.0	1610.7	1595.9	1592.6	1589.3
10°	2120.8	2065.0	1930.5	1812.4	1707.4	1622.1	1538.5	1464.7	1407.3	1372.8	1367.9
12.5°	2202.8	2122.4	1958.4	1802.6	1668.1	1517.2	1295.8	1146.5	1046.4	1015.3	1020.2
15°	2278.2	2191.3	1986.3	1794.4	1595.9	1258.0	1007.1	836.5	785.7	780.7	782.4
17.5°	2368.4	2265.1	2019.1	1782.9	1397.4	961.2	747.9	702.0	711.8	728.2	726.6
20°	2461.9	2343.8	2058.4	1714.0	1115.3	723.3	661.0	665.9	680.7	695.4	698.7
22.5°	2562.0	2434.0	2104.4	1548.3	851.3	629.8	626.6	633.1	647.9	664.3	667.6
25°	2699.8	2547.2	2138.8	1331.8	644.6	582.3	588.8	600.3	613.4	631.5	634.8
27.5°	2876.9	2699.8	2156.8	1049.7	557.7	539.6	541.3	557.7	574.1	590.5	590.5
30°	3106.5	2881.8	2120.8	793.9	515.0	498.6	492.1	501.9	523.2	539.6	541.3
32.5°	3311.5	3054.0	2025.6	606.9	483.9	460.9	444.5	446.1	454.3	464.2	465.8
35°	3516.6	3221.3	1863.3	510.1	451.1	424.8	400.2	387.1	380.5	375.6	380.5
37.5°	3779.0	3429.6	1646.8	464.2	423.2	390.4	355.9	328.0	305.1	290.3	293.6
40°	4116.9	3718.3	1390.9	434.7	396.9	357.6	311.6	275.6	236.2	223.1	216.5
42.5°	4674.5	4156.2	1121.9	410.0	370.7	323.1	265.7	216.5	180.4	167.3	170.6
45°	5555.3	4709.0	864.4	383.8	344.4	285.4	223.1	170.6	141.1	134.5	137.8
47.5°	6723.1	5424.1	665.9	354.3	311.6	244.4	175.5	134.5	116.5	114.8	113.2
50°	7822.1	6090.0	556.0	321.5	272.3	203.4	144.3	113.2	101.7	100.1	100.1
52.5°	8816.0	6567.3	452.7	283.8	229.6	167.3	121.4	100.1	90.2	85.3	85.3
55°	9700.1	6879.0	367.4	237.8	180.4	132.9	105.0	90.2	78.7	72.2	70.5
57.5°	10367.6	6916.7	275.6	190.3	134.5	103.3	90.2	78.7	65.6	57.4	54.1
60°	10653.0	6590.3	203.4	144.3	100.1	82.0	72.2	64.0	49.2	41.0	39.4
62.5°	10366.0	5955.5	150.9	109.9	77.1	60.7	50.8	47.6	34.4	24.6	23.0
65°	9337.6	5038.7	119.7	83.6	57.4	44.3	32.8	31.2	21.3	11.5	9.8
67.5°	7480.9	3946.3	95.1	62.3	41.0	29.5	21.3	19.7	11.5	3.3	3.3
70°	4864.8	2522.6	77.1	45.9	26.2	19.7	13.1	9.8	6.6	1.6	0.0
72.5°	2406.2	1179.3	62.3	36.1	18.0	9.8	4.9	3.3	4.9	0.0	0.0
75°	933.3	419.9	45.9	24.6	9.8	4.9	3.3	0.0	1.6	0.0	0.0
77.5°	310.0	139.4	27.9	13.1	6.6	3.3	0.0	0.0	0.0	0.0	0.0
80°	114.8	54.1	14.8	8.2	3.3	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	45.9	21.3	9.8	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.0	13.1	6.6	4.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.4	9.8	6.6	4.9	3.3	1.6	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)