

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: P455928

Luminaire Tested: **GALN-SA7A-827-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455928
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-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 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: 16861 lumens
Efficiency: N/A
Efficacy: 78.4 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

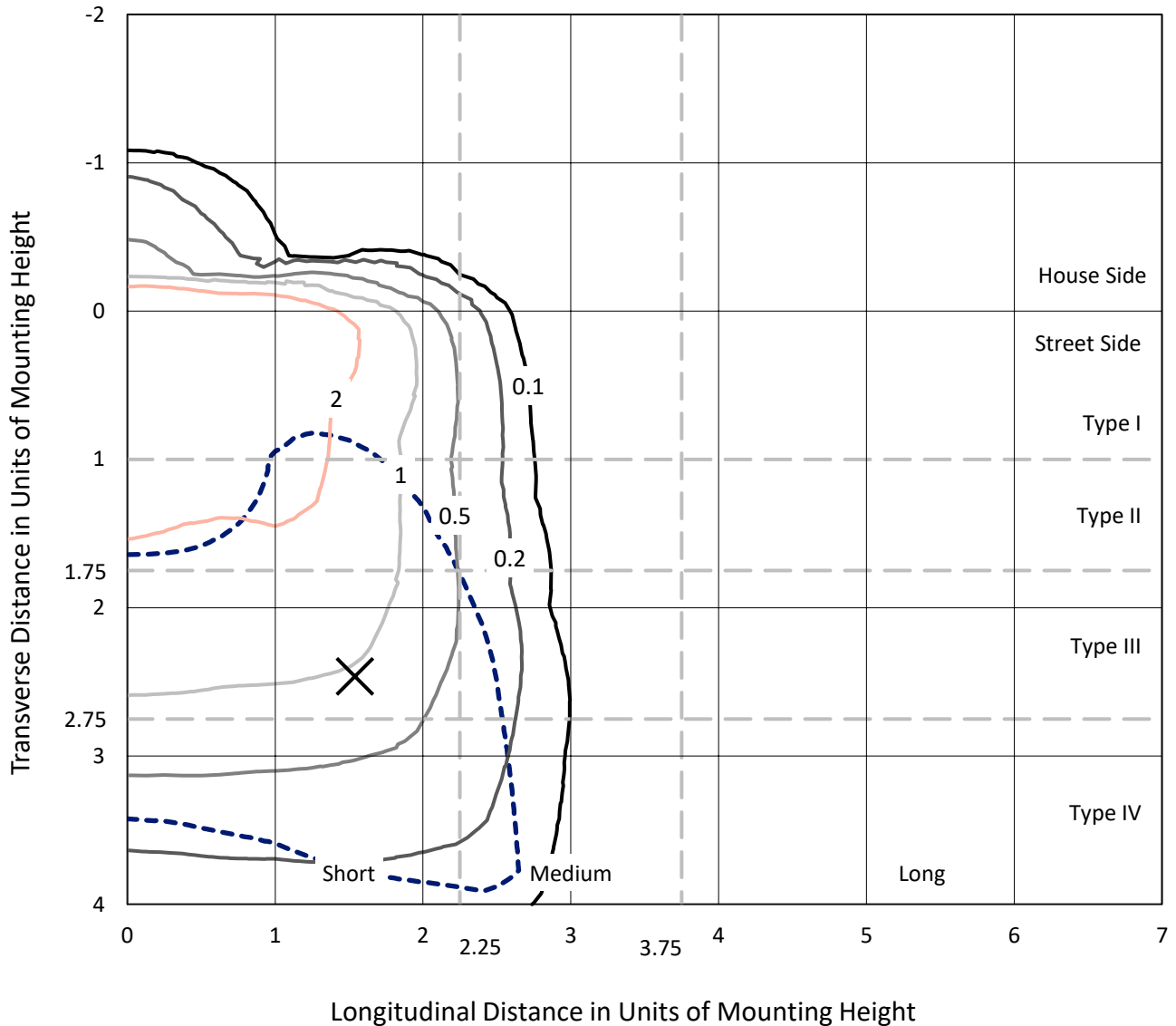
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

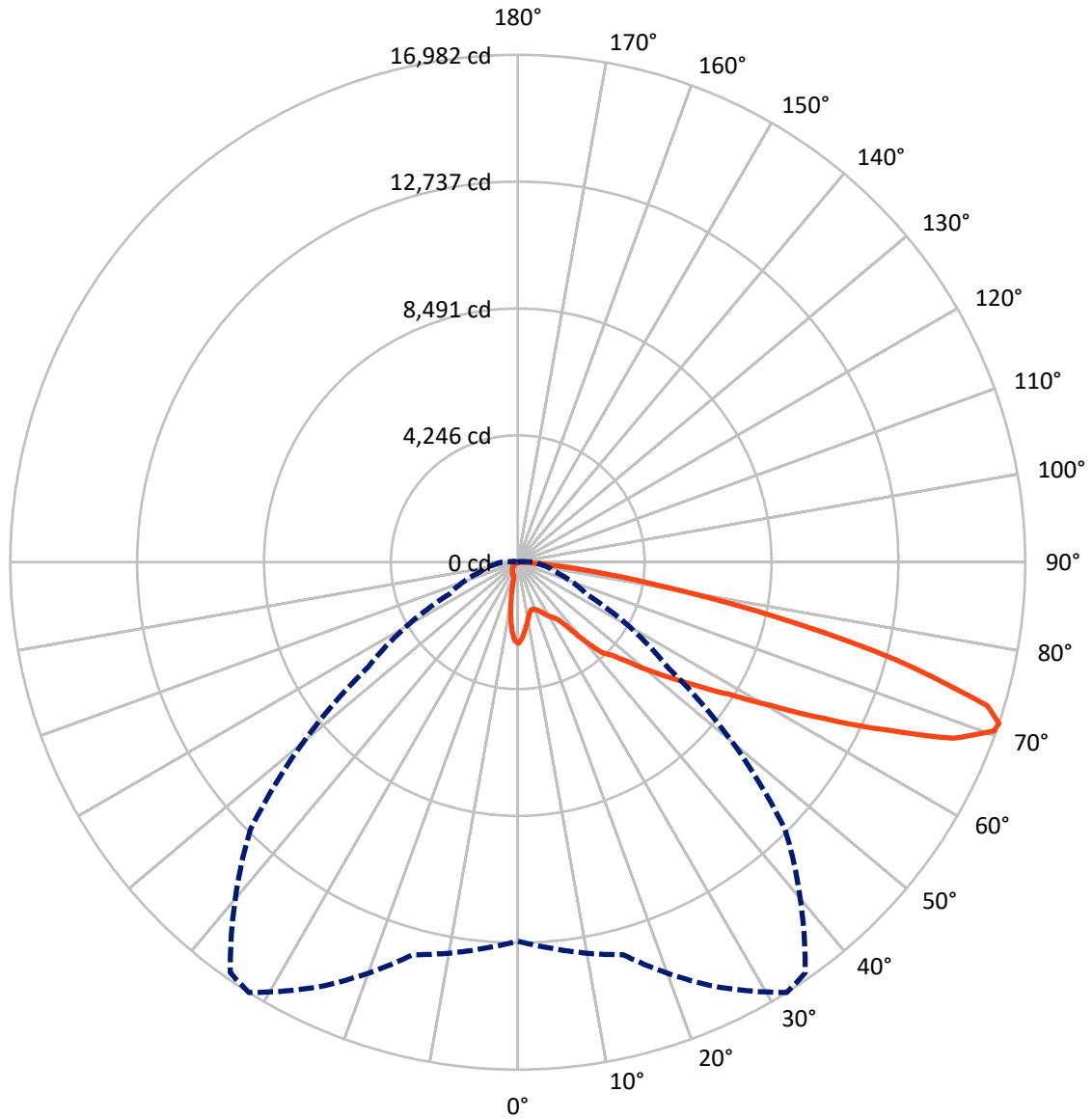
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	1412.3	0.0	1412.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	15448.7	0.0	15448.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	16861.0	0.0	16861.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.5	1.3
10°-20°	478.5	2.8
20°-30°	744.4	4.4
30°-40°	1240.2	7.4
40°-50°	2307.0	13.7
50°-60°	3704.0	22.0
60°-70°	4982.0	29.5
70°-80°	2955.9	17.5
80°-90°	228.5	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°	16861.0	100.0
0°-180°	16861.0	100.0

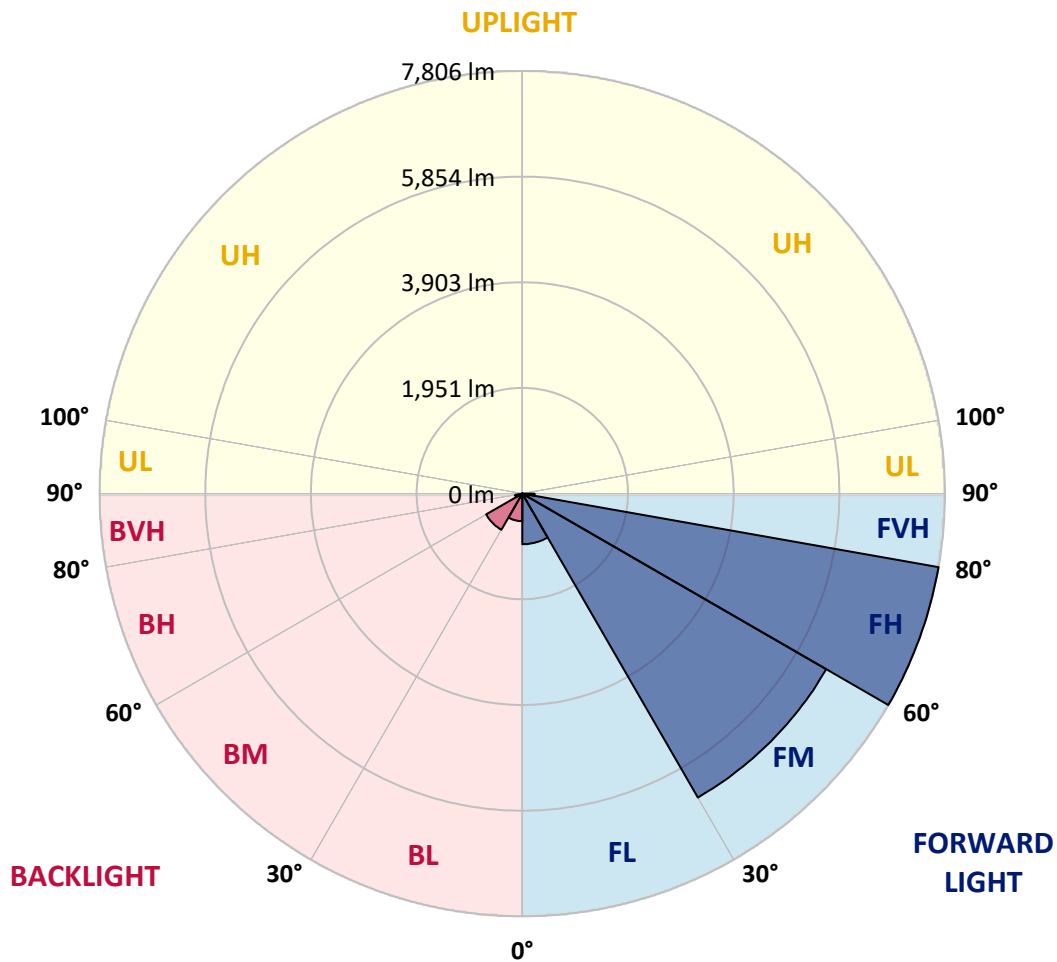


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	934.6	5.5			
FM	(30°-60°)	6480.7	38.4			
FH	(60°-80°)	7805.8	46.3			G4/12000
FVH	(80°-90°)	227.6	1.3			G3/500
BL	(0°-30°)	508.9	3.0	B2/1000		
BM	(30°-60°)	770.4	4.6	B1/1000		
BH	(60°-80°)	132.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	2711.5	2711.5	2711.5	2711.5	2711.5	2711.5	2711.5	2711.5	2711.5	2711.5	2711.5
2.5°	2514.8	2540.7	2536.8	2545.8	2567.8	2576.9	2601.5	2628.7	2666.2	2692.1	2708.9
5°	2252.0	2271.5	2274.0	2319.3	2341.3	2365.9	2438.4	2517.4	2605.4	2675.3	2721.9
7.5°	1971.2	1981.5	2002.2	2061.8	2117.4	2142.0	2252.0	2389.2	2527.7	2658.4	2742.6
10°	1739.5	1751.2	1788.7	1852.1	1903.9	1936.2	2089.0	2261.1	2455.2	2649.4	2772.3
12.5°	1607.5	1614.0	1628.2	1685.1	1751.2	1786.1	1950.5	2147.2	2397.0	2653.3	2822.8
15°	1598.4	1595.8	1579.0	1602.3	1661.9	1698.1	1858.6	2069.6	2345.2	2666.2	2882.4
17.5°	1646.3	1639.9	1599.7	1599.7	1648.9	1678.7	1819.8	2028.1	2319.3	2696.0	2966.5
20°	1720.1	1709.7	1643.7	1638.6	1686.4	1717.5	1843.1	2030.7	2324.5	2751.6	3079.1
22.5°	1813.3	1801.6	1702.0	1704.6	1756.3	1787.4	1910.4	2077.3	2356.9	2820.2	3199.5
25°	1934.9	1922.0	1804.2	1799.0	1853.4	1880.6	2010.0	2160.1	2402.2	2905.7	3357.4
27.5°	2096.7	2069.6	1928.5	1920.7	1979.0	2013.9	2130.4	2271.5	2482.4	3023.4	3569.6
30°	2230.0	2200.3	2065.7	2045.0	2107.1	2134.3	2254.6	2421.6	2640.3	3229.2	3863.4
32.5°	2404.8	2360.8	2202.9	2148.5	2214.5	2249.5	2434.5	2701.2	2874.6	3446.7	4212.9
35°	2798.2	2771.0	2578.2	2387.9	2384.1	2428.1	2699.9	2983.3	3115.3	3785.8	4689.2
37.5°	3361.2	3341.8	3137.3	2882.4	2808.6	2787.9	3022.1	3293.9	3499.7	4251.7	5243.1
40°	4014.8	3969.6	3781.9	3565.7	3470.0	3409.1	3402.7	3756.0	4001.9	4884.6	5820.4
42.5°	4483.4	4400.5	4172.8	4157.2	4136.5	4073.1	3889.3	4431.6	4650.3	5565.4	6437.7
45°	4975.2	4849.7	4510.6	4452.3	4444.6	4440.7	4624.5	5231.5	5357.0	6303.1	7071.9
47.5°	5357.0	5257.4	4979.1	4953.2	4985.6	5073.6	5596.5	6080.5	6054.6	6960.6	7603.9
50°	5865.7	5790.6	5481.3	5530.4	5697.4	5841.1	6692.7	7005.9	6628.0	7478.3	7990.9
52.5°	6466.2	6327.7	6040.4	6173.7	6430.0	6669.4	7856.3	7816.1	7030.5	7867.9	8279.5
55°	6986.5	6888.1	6789.8	6928.3	7311.4	7610.4	8907.2	8423.2	7323.0	8181.1	8406.3
57.5°	7866.6	7843.3	7742.4	7883.4	8348.1	8658.7	9848.2	8894.3	7510.7	8344.2	8257.5
60°	9168.7	9131.1	8943.5	9123.4	9729.1	10217.0	10715.3	9317.5	7553.4	8280.8	7829.1
62.5°	10734.7	10606.6	10446.1	10711.4	11542.4	11757.2	11532.0	9568.6	7394.2	7776.0	6796.3
65°	12197.3	12065.3	12069.1	12628.3	13533.0	13679.2	12484.6	9531.1	6928.3	6511.5	5012.7
67.5°	13316.8	13294.8	13452.7	14543.8	15726.8	15625.8	13336.2	8969.3	5547.3	4220.6	2663.6
70°	13373.8	13416.5	13869.5	15711.2	16912.3	16751.8	13263.8	7290.7	3458.3	1941.4	1049.7
71°	12685.2	12972.5	13599.0	15675.0	16982.2	16773.8	12652.9	6106.4	2536.8	1353.8	757.2
72.5°	10809.8	10961.2	12315.1	14752.2	16429.6	15984.3	11103.6	4280.2	1624.3	828.3	434.9
75°	5953.7	6326.4	8247.1	11573.4	13140.8	12749.9	7236.3	2033.3	810.2	453.0	179.9
77.5°	2834.5	2762.0	4023.9	6883.0	8909.8	8889.1	3646.0	903.4	472.4	306.7	90.6
80°	810.2	911.2	1540.2	3271.9	4946.7	5001.1	1400.4	436.2	327.5	239.4	46.6
82.5°	244.6	249.8	565.6	1447.0	2460.4	2319.3	525.5	222.6	235.6	190.3	27.2
85°	42.7	53.1	167.0	509.9	938.4	711.9	132.0	106.1	155.3	125.5	15.5
87.5°	2.6	3.9	55.7	58.2	82.8	47.9	23.3	15.5	33.7	33.7	9.1
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°	2711.5	2711.5	2711.5	2711.5	2711.5	2711.5	2711.5	2711.5	2711.5	2711.5	2711.5
2.5°	2720.6	2728.3	2723.2	2711.5	2692.1	2668.8	2637.7	2611.9	2589.9	2578.2	2592.4
5°	2737.4	2747.8	2721.9	2663.6	2575.6	2479.8	2371.1	2287.0	2221.0	2200.3	2192.5
7.5°	2763.3	2769.8	2699.9	2570.4	2384.1	2157.6	1959.5	1792.6	1663.1	1624.3	1567.4
10°	2796.9	2793.1	2661.0	2420.3	2092.8	1752.5	1445.7	1217.9	1045.8	983.7	978.5
12.5°	2848.7	2828.0	2611.9	2215.8	1746.0	1300.7	921.5	720.9	612.2	576.0	568.2
15°	2913.4	2864.2	2534.2	1976.4	1337.0	840.0	568.2	507.4	493.1	490.5	487.9
17.5°	2989.8	2912.1	2431.9	1682.6	939.6	544.9	475.0	473.7	475.0	472.4	471.1
20°	3093.3	2962.6	2310.3	1334.4	621.3	459.5	453.0	453.0	454.3	453.0	453.0
22.5°	3203.3	3022.1	2160.1	1018.6	468.5	436.2	434.9	437.5	440.1	438.8	438.8
25°	3339.2	3099.8	1962.1	697.6	419.3	416.8	418.1	423.2	428.4	429.7	428.4
27.5°	3536.0	3195.6	1749.9	480.2	384.4	387.0	399.9	412.9	420.6	421.9	421.9
30°	3757.3	3301.7	1472.9	389.6	355.9	355.9	371.5	396.0	412.9	415.5	416.8
32.5°	4042.0	3424.7	1166.1	350.7	328.7	326.2	340.4	370.2	401.2	410.3	410.3
35°	4394.1	3569.6	867.2	326.2	309.3	302.9	310.6	335.2	375.3	401.2	403.8
37.5°	4806.9	3706.8	634.2	304.2	291.2	282.2	287.3	306.7	339.1	377.9	388.3
40°	5188.8	3828.5	473.7	286.0	273.1	266.6	270.5	279.6	306.7	343.0	349.5
42.5°	5605.5	3923.0	376.6	266.6	255.0	252.4	252.4	256.3	274.4	295.1	296.4
45°	6021.0	3956.6	315.8	243.3	235.6	238.1	236.9	234.3	242.0	239.4	239.4
47.5°	6317.4	3916.5	261.4	221.3	221.3	225.2	218.7	209.7	205.8	190.3	191.6
50°	6520.6	3770.2	214.9	195.4	205.8	211.0	198.0	183.8	169.6	152.7	148.8
52.5°	6604.7	3510.1	176.0	161.8	182.5	189.0	173.4	156.6	134.6	120.4	116.5
55°	6550.3	3189.1	146.3	132.0	154.0	161.8	146.3	126.8	102.2	86.7	84.1
57.5°	6310.9	2806.0	124.3	104.8	123.0	128.1	117.8	97.1	72.5	56.9	56.9
60°	5896.7	2409.9	101.0	82.8	91.9	99.7	89.3	69.9	49.2	34.9	32.4
62.5°	5056.7	1956.9	81.5	64.7	64.7	71.2	62.1	50.5	31.1	18.1	16.8
65°	3651.2	1342.2	64.7	47.9	46.6	46.6	38.8	33.7	18.1	7.8	5.2
67.5°	1984.1	757.2	51.8	36.2	32.4	31.1	24.6	19.4	7.8	1.3	0.0
70°	780.4	291.2	40.1	24.6	20.7	19.4	12.9	9.1	5.2	0.0	0.0
71°	529.4	200.6	34.9	20.7	16.8	14.2	10.4	7.8	3.9	0.0	0.0
72.5°	302.9	124.3	27.2	15.5	12.9	10.4	7.8	5.2	3.9	0.0	0.0
75°	132.0	63.4	16.8	11.6	9.1	6.5	5.2	3.9	1.3	0.0	0.0
77.5°	67.3	34.9	11.6	9.1	5.2	3.9	2.6	1.3	0.0	0.0	0.0
80°	37.5	18.1	7.8	5.2	3.9	2.6	1.3	1.3	0.0	0.0	0.0
82.5°	20.7	10.4	3.9	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.9	6.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	2.6	0.0	0.0	0.0	0.0	1.3	1.3	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)