

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: P531857

Luminaire Tested: **GALN-SA7A-830-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-830-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15115 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

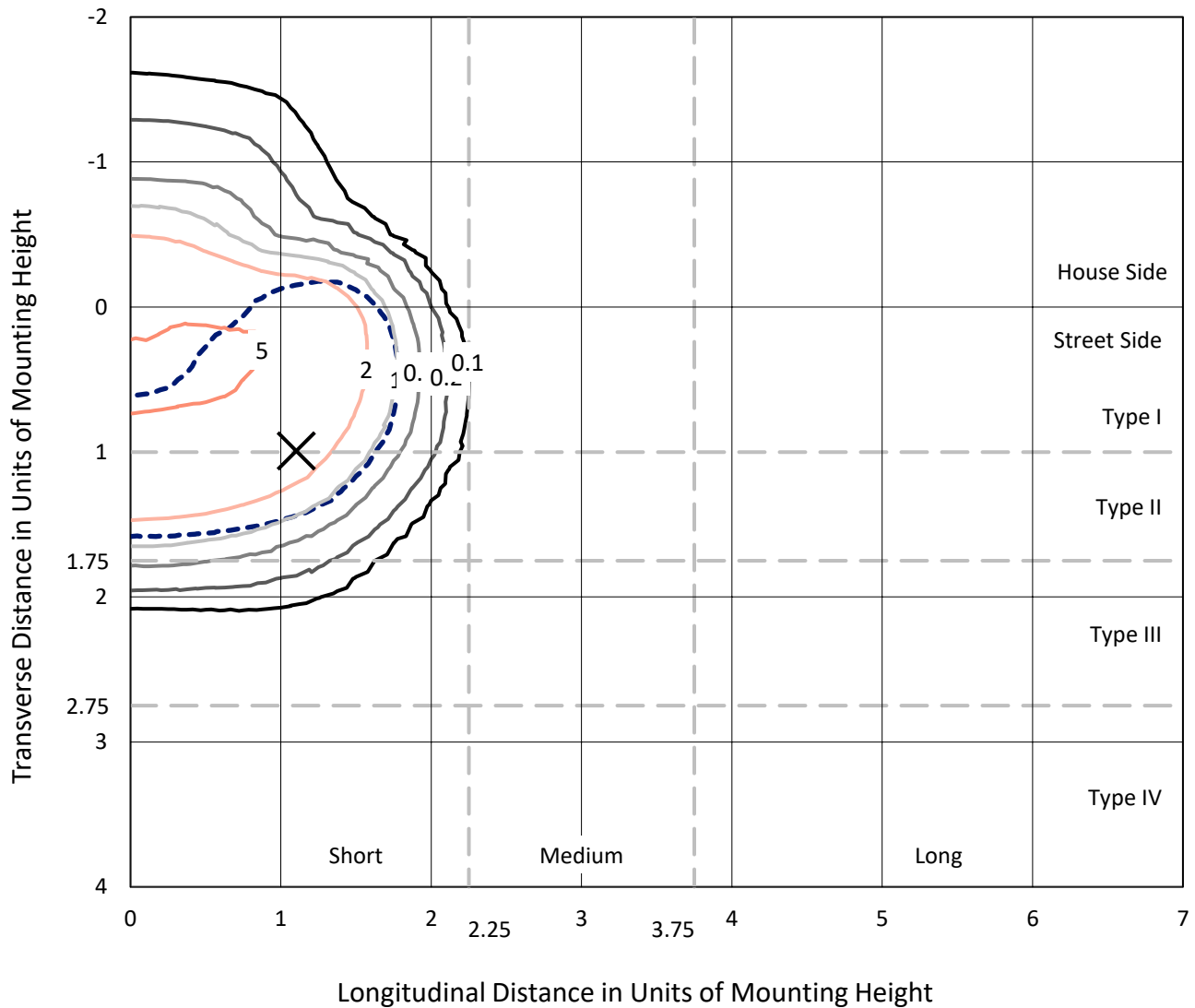
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

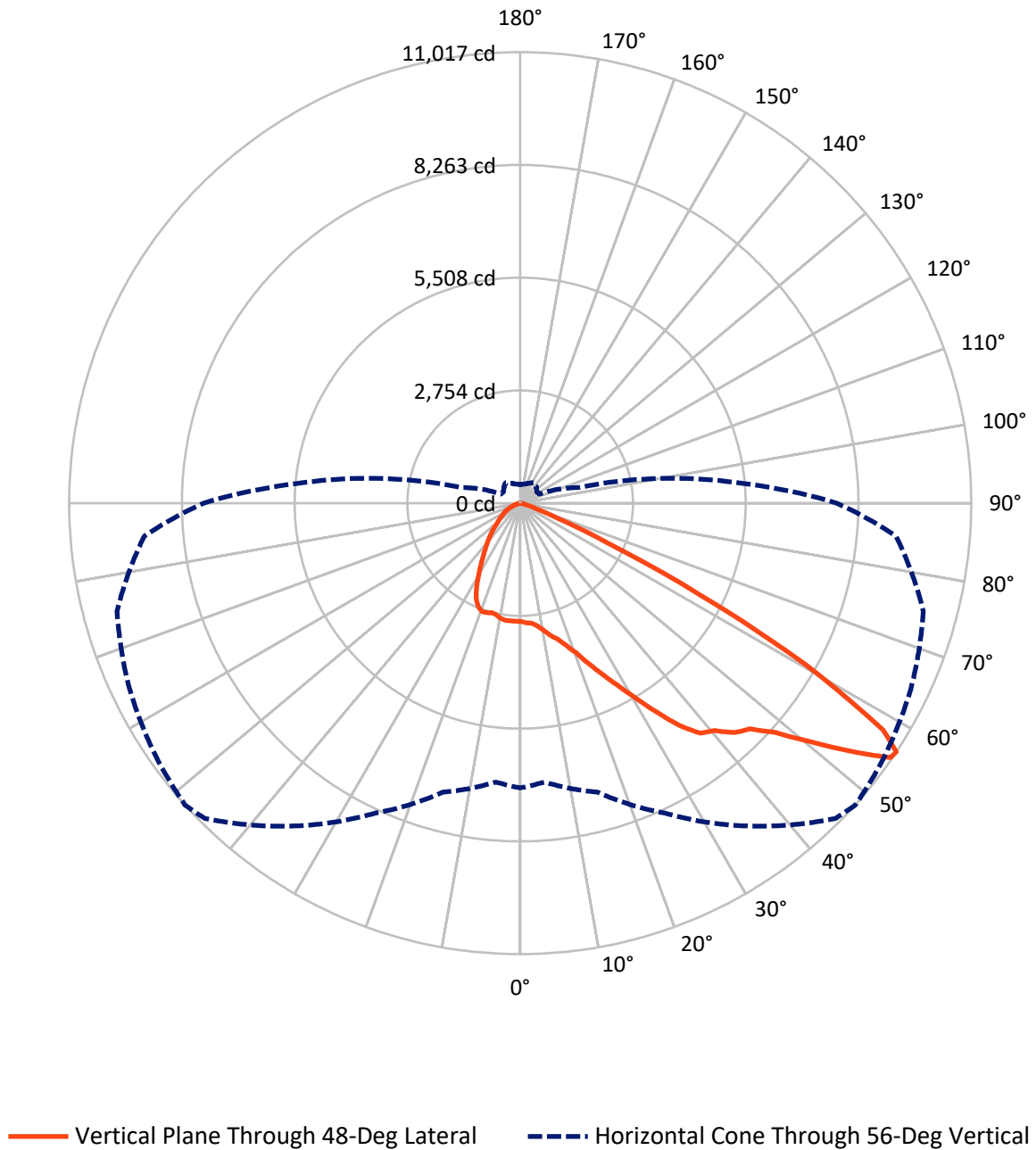
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3287.2	0.0	3287.2
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	11827.8	0.0	11827.8
	% Fixture	78.3	0.0	78.3
Total	Lumens	15115.0	0.0	15115.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.2	1.9
10°-20°	898.7	5.9
20°-30°	1630.1	10.8
30°-40°	2560.6	16.9
40°-50°	3735.5	24.7
50°-60°	4500.5	29.8
60°-70°	1317.7	8.7
70°-80°	167.2	1.1
80°-90°	23.5	0.2
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°	15115.0	100.0
0°-180°	15115.0	100.0

Coefficient of Utilization



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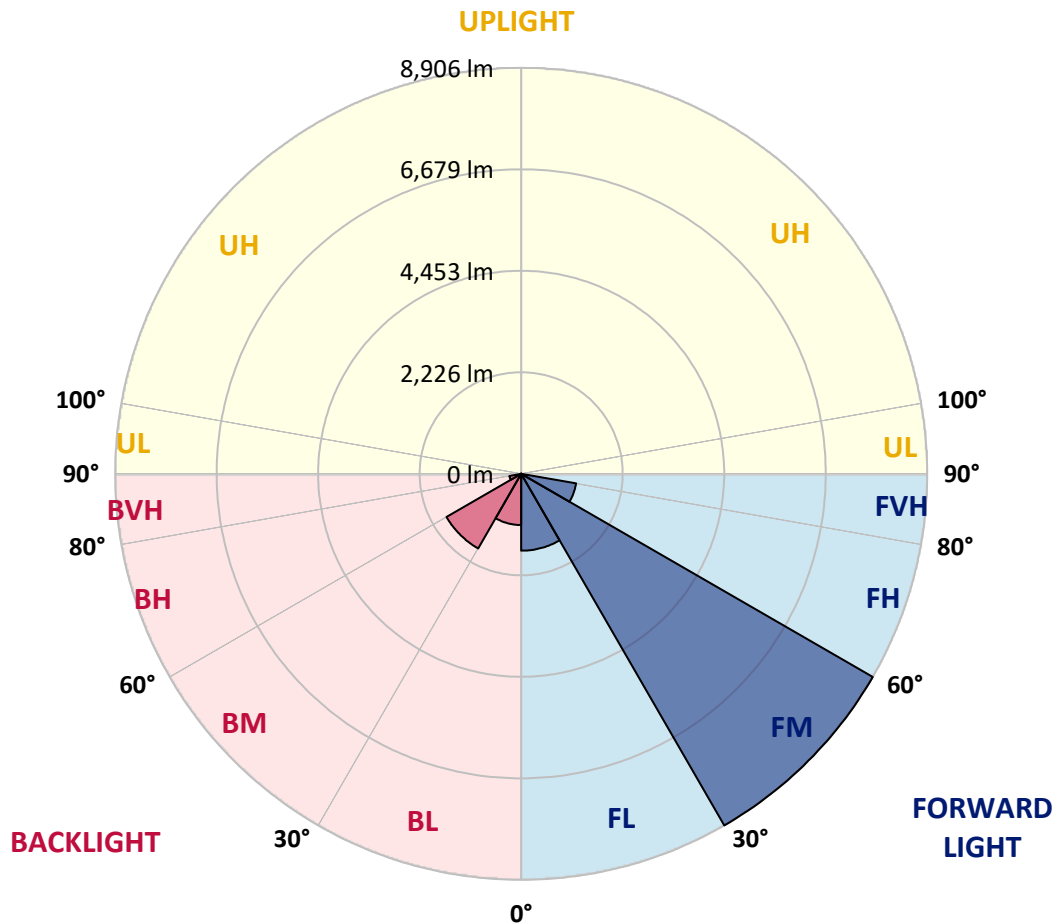
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1686.5	11.2			
FM	(30°-60°)	8905.8	58.9			
FH	(60°-80°)	1223.7	8.1			G1/1800
FVH	(80°-90°)	11.8	0.1			G1/100
BL	(0°-30°)	1123.6	7.4	B3/2500		
BM	(30°-60°)	1890.8	12.5	B2/2500		
BH	(60°-80°)	261.2	1.7	B1/500		G1/500
BVH	(80°-90°)	11.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2887.0	2887.0	2887.0	2887.0	2887.0	2887.0	2887.0	2887.0	2887.0	2887.0	2887.0
2.5°	2939.3	2925.5	2925.5	2903.5	2928.3	2917.2	2925.5	2898.0	2925.5	2884.2	2917.2
5°	2953.0	2955.8	2944.8	2958.5	2958.5	2975.0	2947.5	2972.3	2986.0	2955.8	2942.0
7.5°	3024.6	3030.1	3027.3	3016.3	3038.3	3035.6	3032.8	3013.6	3019.1	3008.1	2991.6
10°	3164.9	3162.2	3175.9	3148.4	3131.9	3151.2	3156.7	3126.4	3104.4	3096.1	3043.8
12.5°	3368.6	3335.6	3316.3	3288.8	3297.0	3269.5	3319.1	3266.8	3255.8	3206.2	3153.9
15°	3533.7	3528.2	3531.0	3486.9	3437.4	3448.4	3448.4	3420.9	3404.4	3343.8	3269.5
17.5°	3872.2	3756.6	3781.4	3726.4	3685.1	3682.3	3657.6	3663.1	3619.0	3492.4	3379.6
20°	4136.4	4086.9	4048.4	3954.8	3891.5	3910.8	3899.8	3872.2	3858.5	3693.3	3533.7
22.5°	4373.1	4389.6	4326.3	4301.6	4213.5	4221.7	4243.8	4219.0	4114.4	3943.8	3707.1
25°	4706.1	4686.9	4601.5	4571.3	4488.7	4519.0	4604.3	4585.0	4519.0	4210.7	3842.0
27.5°	5099.7	5033.6	5050.1	4912.5	4832.7	4918.0	5019.9	5116.2	4929.0	4524.5	4001.6
30°	5377.6	5308.8	5303.3	5297.8	5278.6	5377.6	5496.0	5584.0	5432.7	4838.2	4265.8
32.5°	5515.2	5531.8	5578.5	5562.0	5729.9	5933.6	6057.4	6184.0	5994.1	5350.1	4615.3
35°	5881.3	5776.7	5881.3	5892.3	6065.7	6497.8	6654.6	6957.4	6910.6	6073.9	5041.9
37.5°	6095.9	6087.7	6101.4	6206.0	6373.9	6907.8	7130.7	7364.7	7276.6	6508.8	5573.0
40°	6451.0	6473.0	6470.2	6550.0	6734.4	7216.1	7306.9	7496.8	7505.0	7111.5	6354.6
42.5°	7020.7	6932.6	6874.8	6957.4	7216.1	7483.0	7664.6	7626.1	7898.6	7843.5	7359.2
45°	7532.5	7584.8	7499.5	7637.1	7730.7	7873.8	7868.3	7950.9	8297.6	8559.1	8116.0
47.5°	8011.4	8044.4	8085.7	8179.3	8383.0	8405.0	8358.2	8322.4	8801.3	9071.0	8702.2
50°	8297.6	8327.9	8520.6	8688.4	9068.2	9117.8	9145.3	9054.5	9379.2	9409.5	9255.4
52.5°	8220.6	8253.6	8523.3	9076.5	9682.0	10136.0	10053.5	9899.4	9880.1	9998.4	9767.3
55°	7538.1	7507.8	7879.3	8740.7	9874.6	10964.4	10975.4	10813.1	10502.1	10422.3	9690.2
56°	6957.4	6839.0	7312.4	8352.7	9626.9	10892.9	11016.7	10843.3	10551.6	10193.8	9214.1
57.5°	5699.6	5812.5	6283.1	7144.5	8771.0	10378.2	10449.8	10408.5	10188.3	9588.4	8107.7
60°	3142.9	3341.1	3756.6	4810.7	6244.6	7964.6	8022.4	8358.2	8399.5	7342.7	5578.5
62.5°	1334.8	1312.8	1744.8	2520.9	3555.7	4807.9	4915.3	5259.3	5322.6	4232.8	2798.9
65°	542.2	572.4	789.9	1268.7	1879.7	2190.7	2342.1	2454.9	2664.0	1747.6	1032.0
67.5°	357.8	355.0	465.1	723.8	1012.8	977.0	977.0	1032.0	955.0	712.8	445.8
70°	255.9	264.2	333.0	500.9	630.2	467.9	448.6	429.3	487.1	470.6	360.5
72.5°	167.9	178.9	222.9	300.0	327.5	255.9	255.9	308.2	401.8	379.8	294.5
75°	110.1	112.8	137.6	173.4	162.4	132.1	145.9	206.4	291.7	280.7	209.2
77.5°	74.3	77.1	93.6	112.8	90.8	74.3	79.8	104.6	143.1	143.1	110.1
80°	27.5	30.3	38.5	35.8	41.3	52.3	57.8	71.6	85.3	85.3	74.3
82.5°	0.0	2.8	8.3	19.3	30.3	41.3	46.8	55.0	63.3	71.6	68.8
85°	0.0	2.8	8.3	13.8	22.0	24.8	27.5	19.3	16.5	16.5	13.8
87.5°	0.0	0.0	2.8	2.8	2.8	2.8	2.8	2.8	5.5	2.8	2.8
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°	2887.0	2887.0	2887.0	2887.0	2887.0	2887.0	2887.0	2887.0	2887.0	2887.0	2887.0
2.5°	2887.0	2884.2	2884.2	2876.0	2892.5	2884.2	2889.7	2887.0	2851.2	2878.7	2859.5
5°	2917.2	2936.5	2906.2	2900.7	2878.7	2887.0	2887.0	2859.5	2884.2	2881.5	2876.0
7.5°	2994.3	2961.3	2928.3	2895.2	2889.7	2881.5	2851.2	2840.2	2859.5	2837.4	2870.5
10°	3027.3	3032.8	2983.3	2939.3	2898.0	2840.2	2798.9	2774.1	2743.9	2776.9	2796.2
12.5°	3178.7	3123.7	3038.3	2969.5	2829.2	2771.4	2730.1	2719.1	2771.4	2782.4	2763.1
15°	3231.0	3222.7	3112.6	2958.5	2812.7	2743.9	2752.1	2730.1	2735.6	2708.1	2713.6
17.5°	3338.3	3244.7	3115.4	2922.7	2809.9	2793.4	2743.9	2655.8	2606.3	2584.2	2603.5
20°	3456.7	3365.8	3178.7	2936.5	2834.7	2790.6	2628.3	2520.9	2419.1	2364.1	2366.8
22.5°	3561.2	3448.4	3151.2	2942.0	2856.7	2675.1	2479.7	2267.7	2141.1	2055.8	2058.6
25°	3687.8	3528.2	3162.2	2953.0	2798.9	2490.7	2210.0	2003.5	1852.2	1794.4	1813.6
27.5°	3759.4	3577.8	3222.7	2977.8	2647.5	2229.2	1926.5	1733.8	1645.8	1618.2	1615.5
30°	3974.1	3687.8	3297.0	2928.3	2394.3	1948.5	1667.8	1549.4	1464.1	1439.4	1444.9
32.5°	4293.3	3888.7	3393.4	2798.9	2135.6	1698.1	1499.9	1411.8	1332.0	1285.2	1279.7
35°	4560.3	4232.8	3495.2	2598.0	1835.7	1505.4	1381.6	1271.5	1150.4	1098.1	1084.3
37.5°	5069.4	4620.8	3473.2	2295.3	1549.4	1362.3	1255.0	1120.1	1015.5	944.0	935.7
40°	5746.4	5074.9	3365.8	1926.5	1337.5	1235.7	1120.1	990.8	861.4	800.9	795.4
42.5°	6569.3	5630.8	3170.4	1552.2	1125.6	1109.1	1004.5	855.9	740.3	696.3	699.0
45°	7238.1	6106.9	2972.3	1246.7	968.7	985.3	894.4	754.1	674.3	638.5	638.5
47.5°	7832.5	6428.9	2757.6	1029.3	822.9	861.4	781.6	699.0	630.2	602.7	597.2
50°	8405.0	6756.4	2543.0	833.9	701.8	740.3	732.1	666.0	611.0	577.9	580.7
52.5°	8762.7	6808.7	2270.5	682.5	613.7	657.8	685.3	624.7	564.2	544.9	539.4
55°	8325.2	6134.5	1761.4	561.4	520.2	577.9	630.2	561.4	514.6	481.6	478.9
56°	7736.2	5485.0	1472.4	517.4	492.6	555.9	611.0	536.7	484.4	465.1	451.3
57.5°	6550.0	4488.7	1087.1	459.6	456.9	517.4	580.7	511.9	451.3	434.8	434.8
60°	4084.1	2526.4	657.8	385.3	396.3	459.6	522.9	456.9	401.8	401.8	410.1
62.5°	1860.4	1051.3	399.1	327.5	341.3	396.3	465.1	412.8	382.5	412.8	418.3
65°	633.0	454.1	289.0	261.5	269.7	327.5	399.1	418.3	415.6	434.8	445.8
67.5°	355.0	291.7	242.2	217.4	211.9	242.2	327.5	418.3	401.8	393.6	399.1
70°	300.0	247.7	214.7	192.6	184.4	195.4	253.2	316.5	283.5	275.2	269.7
72.5°	242.2	206.4	187.1	173.4	148.6	126.6	115.6	121.1	134.9	143.1	156.9
75°	170.6	156.9	156.9	140.4	107.3	79.8	63.3	52.3	35.8	24.8	27.5
77.5°	96.3	96.3	99.1	85.3	68.8	52.3	38.5	27.5	13.8	5.5	2.8
80°	66.1	71.6	77.1	68.8	57.8	46.8	33.0	19.3	8.3	0.0	0.0
82.5°	66.1	74.3	79.8	68.8	57.8	44.0	33.0	19.3	8.3	2.8	0.0
85°	13.8	16.5	19.3	22.0	33.0	33.0	24.8	16.5	8.3	2.8	0.0
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	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)