

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: P529517

Luminaire Tested: **GALN-SA4C-830-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529517
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-SA4C-830-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA 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: 13198 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

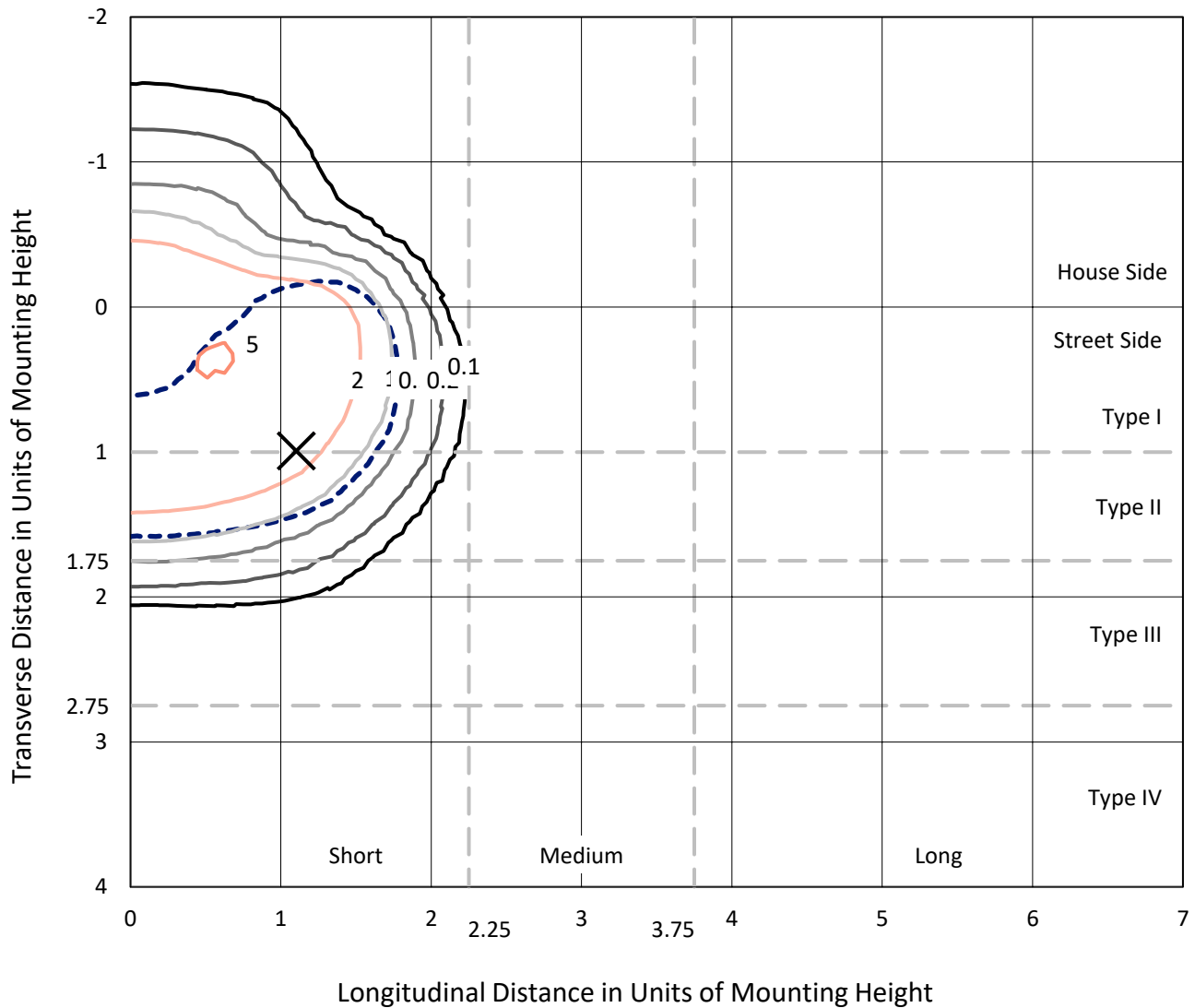
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529517
 CATALOG NUMBER: GALN-SA4C-830-U-T3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

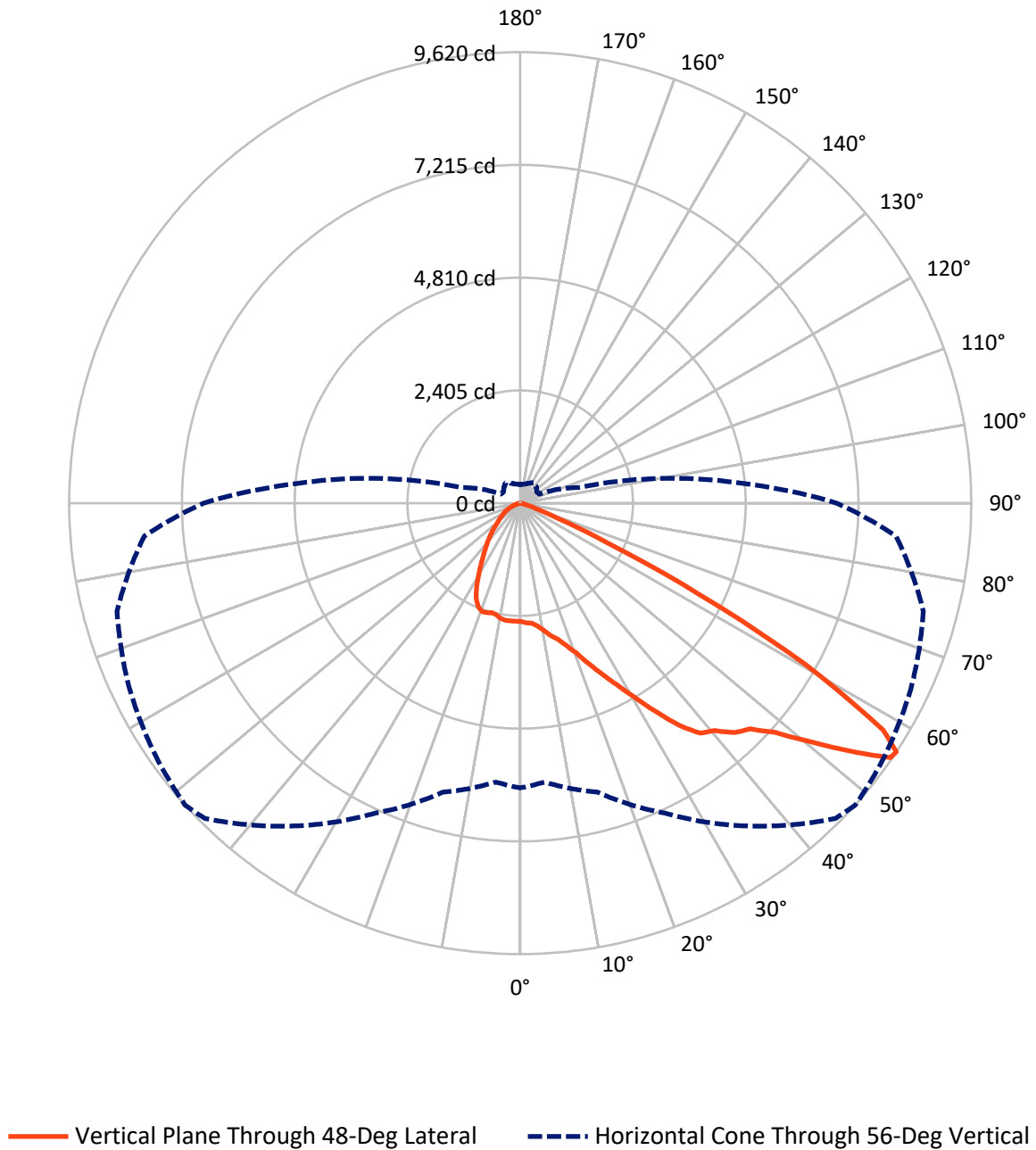
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - N/A

REPORT NUMBER: P529517
CATALOG NUMBER: GALN-SA4C-830-U-T3-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P529517

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2870.3	0.0	2870.3
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	10327.7	0.0	10327.7
	% Fixture	78.3	0.0	78.3
Total	Lumens	13198.0	0.0	13198.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.6	1.9
10°-20°	784.8	5.9
20°-30°	1423.4	10.8
30°-40°	2235.9	16.9
40°-50°	3261.7	24.7
50°-60°	3929.7	29.8
60°-70°	1150.6	8.7
70°-80°	146.0	1.1
80°-90°	20.5	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°	13198.0	100.0
0°-180°	13198.0	100.0

Coefficient of Utilization



REPORT NUMBER: P529517

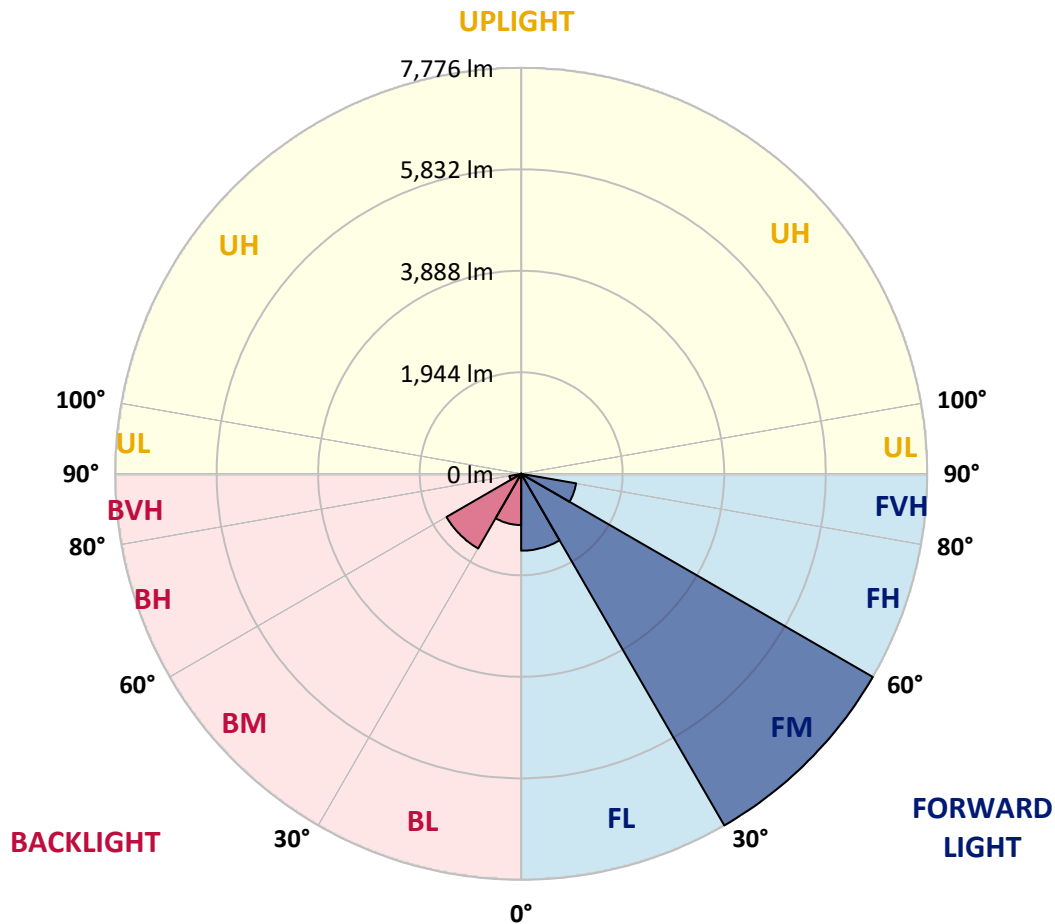
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1472.6	11.2			
FM	(30°-60°)	7776.3	58.9			
FH	(60°-80°)	1068.5	8.1			G1/1800
FVH	(80°-90°)	10.3	0.1			G1/100
BL	(0°-30°)	981.1	7.4	B2/1000		
BM	(30°-60°)	1651.0	12.5	B2/2500		
BH	(60°-80°)	228.1	1.7	B1/500		G1/500
BVH	(80°-90°)	10.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



REPORT NUMBER: P529517

CATALOG NUMBER: GALN-SA4C-830-U-T3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2520.8	2520.8	2520.8	2520.8	2520.8	2520.8	2520.8	2520.8	2520.8	2520.8	2520.8
2.5°	2566.5	2554.5	2554.5	2535.2	2556.9	2547.3	2554.5	2530.4	2554.5	2518.4	2547.3
5°	2578.5	2580.9	2571.3	2583.3	2583.3	2597.7	2573.7	2595.3	2607.3	2580.9	2568.9
7.5°	2641.0	2645.8	2643.4	2633.8	2653.0	2650.6	2648.2	2631.4	2636.2	2626.6	2612.1
10°	2763.5	2761.1	2773.1	2749.1	2734.7	2751.5	2756.3	2729.9	2710.7	2703.5	2657.8
12.5°	2941.4	2912.5	2895.7	2871.7	2878.9	2854.9	2898.1	2852.4	2842.8	2799.6	2753.9
15°	3085.5	3080.7	3083.1	3044.7	3001.4	3011.1	3011.1	2987.0	2972.6	2919.7	2854.9
17.5°	3381.1	3280.2	3301.8	3253.8	3217.7	3215.3	3193.7	3198.5	3160.0	3049.5	2951.0
20°	3611.8	3568.6	3534.9	3453.2	3397.9	3414.8	3405.2	3381.1	3369.1	3224.9	3085.5
22.5°	3818.5	3832.9	3777.6	3756.0	3679.1	3686.3	3705.5	3683.9	3592.6	3443.6	3236.9
25°	4109.3	4092.4	4017.9	3991.5	3919.4	3945.8	4020.3	4003.5	3945.8	3676.7	3354.7
27.5°	4452.9	4395.2	4409.6	4289.5	4219.8	4294.3	4383.2	4467.3	4303.9	3950.7	3494.1
30°	4695.6	4635.5	4630.7	4625.9	4609.1	4695.6	4798.9	4875.8	4743.7	4224.6	3724.8
32.5°	4815.8	4830.2	4871.0	4856.6	5003.2	5181.0	5289.2	5399.7	5233.9	4671.6	4030.0
35°	5135.4	5044.1	5135.4	5145.0	5296.4	5673.7	5810.6	6075.0	6034.1	5303.6	4402.4
37.5°	5322.8	5315.6	5327.6	5418.9	5565.5	6031.7	6226.4	6430.6	6353.7	5683.3	4866.2
40°	5632.8	5652.0	5649.6	5719.3	5880.3	6300.9	6380.2	6546.0	6553.2	6209.5	5548.7
42.5°	6130.2	6053.3	6002.9	6075.0	6300.9	6534.0	6692.6	6658.9	6896.8	6848.8	6425.8
45°	6577.2	6622.9	6548.4	6668.5	6750.2	6875.2	6870.4	6942.5	7245.3	7473.6	7086.7
47.5°	6995.3	7024.2	7060.2	7141.9	7319.8	7339.0	7298.1	7266.9	7685.0	7920.5	7598.5
50°	7245.3	7271.7	7439.9	7586.5	7918.1	7961.4	7985.4	7906.1	8189.7	8216.1	8081.5
52.5°	7178.0	7206.8	7442.3	7925.3	8454.0	8850.5	8778.4	8643.9	8627.0	8730.4	8528.5
55°	6582.0	6555.6	6880.0	7632.2	8622.2	9573.8	9583.5	9441.7	9170.1	9100.4	8461.2
56°	6075.0	5971.6	6385.0	7293.3	8405.9	9511.4	9619.5	9468.1	9213.4	8901.0	8045.5
57.5°	4976.8	5075.3	5486.2	6238.4	7658.6	9062.0	9124.5	9088.4	8896.2	8372.3	7079.5
60°	2744.3	2917.3	3280.2	4200.6	5452.6	6954.5	7005.0	7298.1	7334.2	6411.4	4871.0
62.5°	1165.5	1146.3	1523.5	2201.2	3104.8	4198.2	4291.9	4592.3	4647.5	3695.9	2443.9
65°	473.4	499.8	689.7	1107.8	1641.3	1912.8	2045.0	2143.5	2326.2	1526.0	901.2
67.5°	312.4	310.0	406.1	632.0	884.3	853.1	853.1	901.2	833.9	622.4	389.3
70°	223.5	230.7	290.8	437.4	550.3	408.5	391.7	374.9	425.3	410.9	314.8
72.5°	146.6	156.2	194.6	261.9	286.0	223.5	223.5	269.1	350.8	331.6	257.1
75°	96.1	98.5	120.2	151.4	141.8	115.3	127.4	180.2	254.7	245.1	182.6
77.5°	64.9	67.3	81.7	98.5	79.3	64.9	69.7	91.3	125.0	125.0	96.1
80°	24.0	26.4	33.6	31.2	36.0	45.7	50.5	62.5	74.5	74.5	64.9
82.5°	0.0	2.4	7.2	16.8	26.4	36.0	40.9	48.1	55.3	62.5	60.1
85°	0.0	2.4	7.2	12.0	19.2	21.6	24.0	16.8	14.4	14.4	12.0
87.5°	0.0	0.0	2.4	2.4	2.4	2.4	2.4	2.4	4.8	2.4	2.4
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: P529517

CATALOG NUMBER: GALN-SA4C-830-U-T3-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2520.8	2520.8	2520.8	2520.8	2520.8	2520.8	2520.8	2520.8	2520.8	2520.8	2520.8
2.5°	2520.8	2518.4	2518.4	2511.2	2525.6	2518.4	2523.2	2520.8	2489.6	2513.6	2496.8
5°	2547.3	2564.1	2537.6	2532.8	2513.6	2520.8	2520.8	2496.8	2518.4	2516.0	2511.2
7.5°	2614.5	2585.7	2556.9	2528.0	2523.2	2516.0	2489.6	2480.0	2496.8	2477.6	2506.4
10°	2643.4	2648.2	2604.9	2566.5	2530.4	2480.0	2443.9	2422.3	2395.9	2424.7	2441.5
12.5°	2775.5	2727.5	2653.0	2592.9	2470.4	2419.9	2383.8	2374.2	2419.9	2429.5	2412.7
15°	2821.2	2814.0	2717.9	2583.3	2455.9	2395.9	2403.1	2383.8	2388.7	2364.6	2369.4
17.5°	2914.9	2833.2	2720.3	2552.1	2453.5	2439.1	2395.9	2319.0	2275.7	2256.5	2273.3
20°	3018.3	2939.0	2775.5	2564.1	2475.2	2436.7	2294.9	2201.2	2112.3	2064.2	2066.6
22.5°	3109.6	3011.1	2751.5	2568.9	2494.4	2335.8	2165.2	1980.1	1869.6	1795.1	1797.5
25°	3220.1	3080.7	2761.1	2578.5	2443.9	2174.8	1929.7	1749.4	1617.3	1566.8	1583.6
27.5°	3282.6	3124.0	2814.0	2600.1	2311.8	1946.5	1682.2	1513.9	1437.0	1413.0	1410.6
30°	3470.0	3220.1	2878.9	2556.9	2090.7	1701.4	1456.3	1352.9	1278.4	1256.8	1261.6
32.5°	3748.8	3395.5	2963.0	2443.9	1864.8	1482.7	1309.7	1232.8	1163.1	1122.2	1117.4
35°	3981.9	3695.9	3051.9	2268.5	1602.8	1314.5	1206.3	1110.2	1004.5	958.8	946.8
37.5°	4426.5	4034.8	3032.7	2004.2	1352.9	1189.5	1095.8	978.1	886.7	824.3	817.0
40°	5017.6	4431.3	2939.0	1682.2	1167.9	1079.0	978.1	865.1	752.2	699.3	694.5
42.5°	5736.1	4916.7	2768.3	1355.3	982.9	968.4	877.1	747.4	646.4	608.0	610.4
45°	6320.1	5332.4	2595.3	1088.6	845.9	860.3	781.0	658.4	588.8	557.5	557.5
47.5°	6839.1	5613.6	2407.9	898.7	718.5	752.2	682.5	610.4	550.3	526.3	521.5
50°	7339.0	5899.5	2220.4	728.1	612.8	646.4	639.2	581.5	533.5	504.6	507.0
52.5°	7651.4	5945.2	1982.5	596.0	535.9	574.3	598.4	545.5	492.6	475.8	471.0
55°	7269.3	5356.4	1538.0	490.2	454.2	504.6	550.3	490.2	449.4	420.5	418.1
56°	6755.0	4789.3	1285.6	451.8	430.2	485.4	533.5	468.6	422.9	406.1	394.1
57.5°	5719.3	3919.4	949.2	401.3	398.9	451.8	507.0	447.0	394.1	379.7	379.7
60°	3566.2	2206.0	574.3	336.4	346.0	401.3	456.6	398.9	350.8	350.8	358.1
62.5°	1624.5	918.0	348.4	286.0	298.0	346.0	406.1	360.5	334.0	360.5	365.3
65°	552.7	396.5	252.3	228.3	235.5	286.0	348.4	365.3	362.9	379.7	389.3
67.5°	310.0	254.7	211.5	189.8	185.0	211.5	286.0	365.3	350.8	343.6	348.4
70°	261.9	216.3	187.4	168.2	161.0	170.6	221.1	276.4	247.5	240.3	235.5
72.5°	211.5	180.2	163.4	151.4	129.8	110.5	100.9	105.7	117.8	125.0	137.0
75°	149.0	137.0	137.0	122.6	93.7	69.7	55.3	45.7	31.2	21.6	24.0
77.5°	84.1	84.1	86.5	74.5	60.1	45.7	33.6	24.0	12.0	4.8	2.4
80°	57.7	62.5	67.3	60.1	50.5	40.9	28.8	16.8	7.2	0.0	0.0
82.5°	57.7	64.9	69.7	60.1	50.5	38.4	28.8	16.8	7.2	2.4	0.0
85°	12.0	14.4	16.8	19.2	28.8	28.8	21.6	14.4	7.2	2.4	0.0
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	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)