

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: P948437

Luminaire Tested: **GALN-SB3C-727-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948437
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3C-727-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21121 lumens
Efficiency: N/A
Efficacy: 141.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 149.1
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



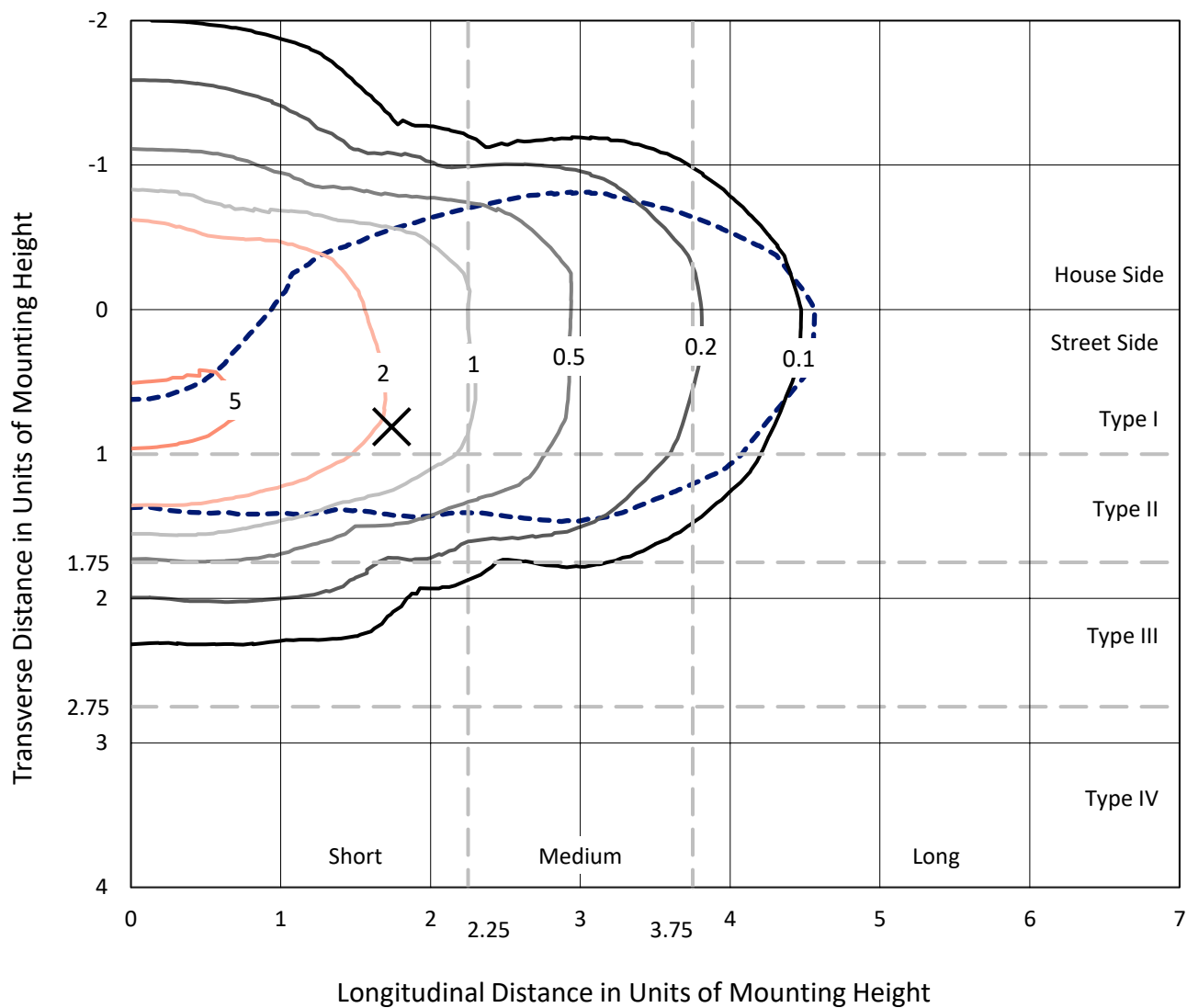
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Iso-Footcandle Lines of Horizontal Illumination

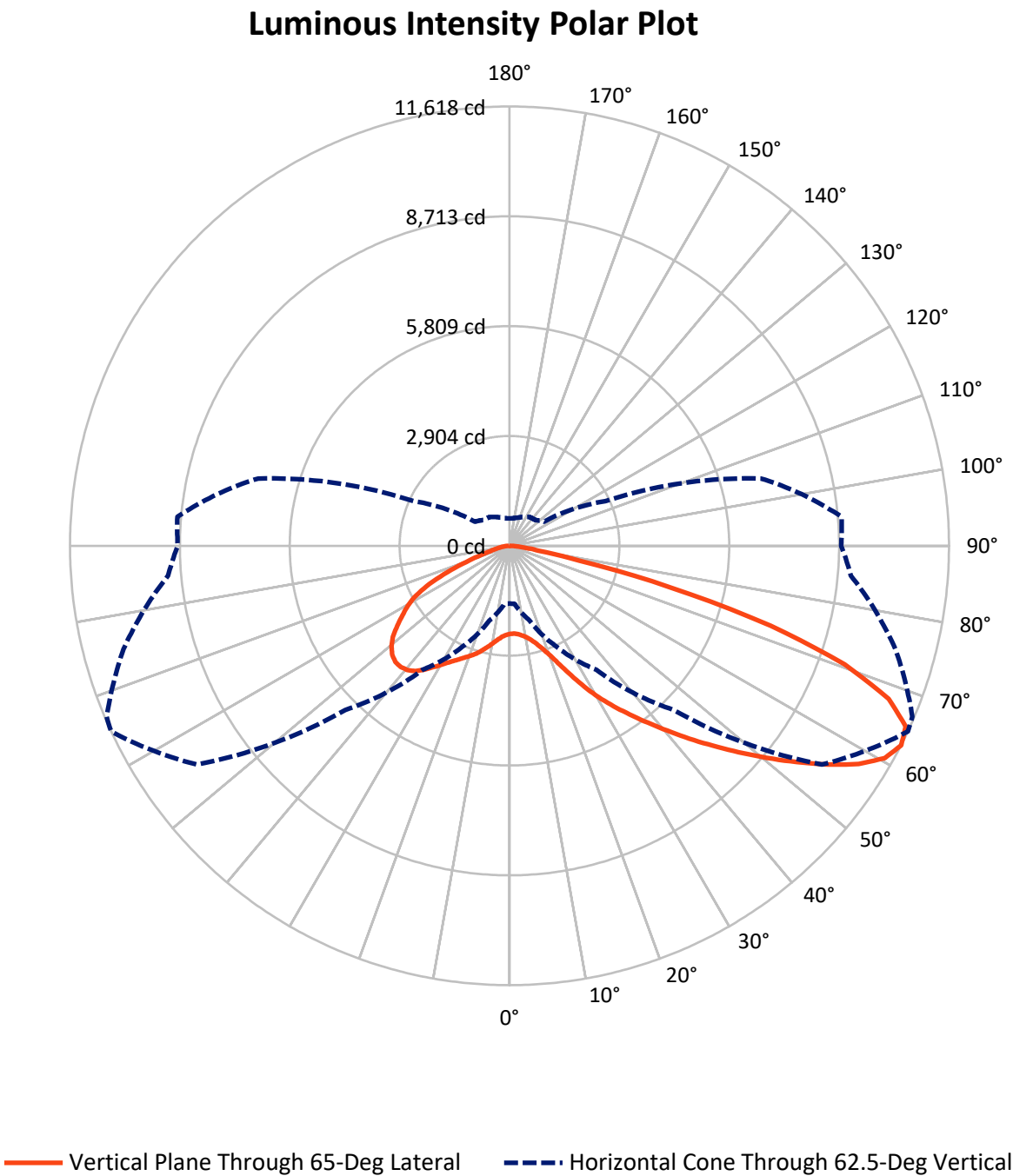
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6664.9	0.0	6664.9
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	14456.1	0.0	14456.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	21121.0	0.0	21121.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.0	1.1
10°-20°	786.9	3.7
20°-30°	1595.5	7.6
30°-40°	2761.0	13.1
40°-50°	4178.2	19.8
50°-60°	4898.6	23.2
60°-70°	4106.9	19.4
70°-80°	2267.4	10.7
80°-90°	294.5	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°	21121.0	100.0
0°-180°	21121.0	100.0

Coefficient of Utilization



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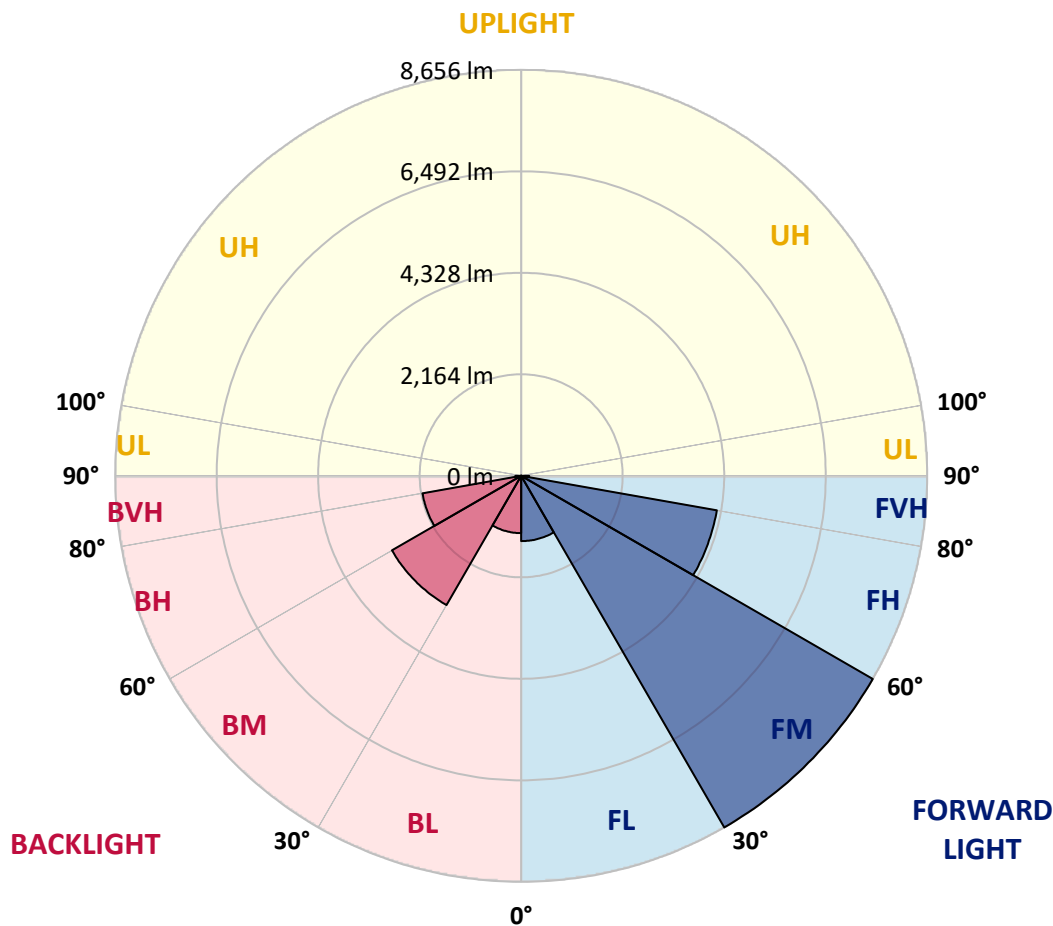
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1392.2	6.6			
FM	(30°-60°)	8656.1	41.0			
FH	(60°-80°)	4236.3	20.1			G2/5000
FVH	(80°-90°)	171.6	0.8			G2/225
BL	(0°-30°)	1222.3	5.8	B3/2500		
BM	(30°-60°)	3181.7	15.1	B3/5000		
BH	(60°-80°)	2138.0	10.1	B3/2500		G3/2500
BVH	(80°-90°)	122.9	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2327.4	2327.4	2327.4	2327.4	2327.4	2327.4	2327.4	2327.4	2327.4	2327.4	2327.4
2.5°	2312.1	2305.5	2311.0	2311.0	2313.2	2312.1	2319.8	2322.0	2325.3	2331.8	2331.8
5°	2289.1	2288.0	2297.9	2306.6	2315.4	2323.1	2332.9	2347.2	2349.4	2357.0	2366.9
7.5°	2281.4	2274.8	2290.2	2301.1	2322.0	2340.6	2366.9	2391.0	2400.9	2404.1	2422.8
10°	2340.6	2329.6	2343.9	2350.5	2368.0	2386.6	2417.3	2455.6	2466.6	2479.8	2500.6
12.5°	2441.4	2429.4	2450.2	2460.0	2476.5	2492.9	2513.7	2551.0	2556.5	2580.6	2600.3
15°	2579.5	2565.2	2578.4	2590.4	2617.8	2633.2	2654.0	2690.1	2690.1	2708.8	2723.0
17.5°	2766.9	2748.2	2758.1	2762.5	2780.0	2803.0	2838.1	2869.9	2886.3	2879.7	2860.0
20°	3046.3	3023.3	3023.3	3001.3	2994.8	3013.4	3059.4	3103.3	3120.8	3086.8	3038.6
22.5°	3466.0	3433.1	3414.5	3339.9	3310.4	3312.6	3358.6	3412.3	3426.5	3366.2	3257.8
25°	3999.6	3948.1	3922.9	3813.3	3746.5	3688.4	3724.6	3793.6	3813.3	3738.8	3563.5
27.5°	4533.3	4536.5	4512.4	4380.9	4270.3	4164.0	4145.3	4217.7	4238.5	4154.1	3937.1
30°	5281.7	5203.9	5157.8	5000.1	4842.3	4693.2	4616.5	4646.1	4651.6	4550.8	4298.8
32.5°	5927.1	5907.4	5808.7	5670.7	5468.0	5234.6	5106.3	5059.2	5050.5	4906.9	4607.8
35°	6662.4	6651.4	6547.3	6382.9	6163.8	5839.4	5608.2	5473.4	5462.5	5260.9	4913.5
37.5°	7409.7	7409.7	7307.8	7128.1	6901.2	6495.8	6144.1	5930.4	5895.3	5632.3	5224.7
40°	8005.8	7969.6	7988.3	7912.6	7652.9	7222.3	6739.1	6429.0	6381.8	6066.3	5555.6
42.5°	8344.4	8332.3	8444.1	8528.5	8422.2	8078.1	7394.3	6969.2	6903.4	6544.0	5937.0
45°	8420.0	8406.8	8606.3	8915.3	9064.3	8923.0	8106.6	7537.9	7457.9	7043.7	6345.7
47.5°	8245.8	8219.5	8512.0	8999.7	9477.4	9726.2	8878.0	8154.8	8038.7	7530.2	6765.4
50°	7722.0	7696.8	8139.5	8787.1	9616.6	10271.9	9715.2	8809.0	8631.5	8051.8	7189.4
52.5°	6583.5	6595.5	7289.1	8178.9	9433.6	10611.6	10436.2	9498.2	9284.6	8585.5	7587.2
55°	5128.3	5154.6	6007.1	6986.7	8701.6	10560.1	10928.2	10208.3	9995.7	9087.3	7998.1
57.5°	3672.0	3788.1	4586.9	5556.7	7295.7	9743.7	11035.6	10883.3	10677.3	9635.2	8400.3
60°	2380.0	2400.9	3222.7	4200.1	5555.6	8292.9	10817.6	11395.0	11234.0	10194.1	8736.7
62.5°	1525.3	1539.6	2040.3	2937.8	3998.5	6135.3	10083.4	11617.5	11568.2	10563.3	9059.9
65°	1121.0	1110.0	1370.8	1941.7	2693.4	3783.7	8657.8	11510.1	11607.6	10794.6	9327.3
67.5°	935.8	920.5	1048.7	1344.5	1984.5	2148.8	6405.9	10812.1	11169.3	10768.3	9523.4
70°	852.5	839.4	917.2	998.3	1548.3	1438.8	3229.3	9399.6	9949.7	10469.1	9491.7
72.5°	722.1	699.1	805.4	886.5	1204.3	1103.5	1334.7	7220.1	7890.7	9510.3	9044.6
75°	559.9	544.6	635.6	780.2	905.1	861.3	843.8	4384.2	5116.2	7354.9	7912.6
77.5°	443.8	423.0	506.3	608.2	814.2	649.8	614.7	1888.0	2613.4	4695.4	5920.5
80°	334.2	315.6	384.6	481.0	625.7	489.8	397.8	770.3	985.1	2378.9	2977.2
82.5°	237.8	221.3	268.5	352.8	420.8	439.4	244.4	431.7	485.4	917.2	665.1
85°	152.3	142.5	179.7	221.3	267.4	282.7	149.0	225.7	247.6	378.0	277.2
87.5°	83.3	67.9	96.4	103.0	123.8	112.9	71.2	82.2	88.8	137.0	117.2
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°	2327.4	2327.4	2327.4	2327.4	2327.4	2327.4	2327.4	2327.4	2327.4	2327.4	2327.4
2.5°	2336.2	2339.5	2350.5	2353.7	2361.4	2371.3	2377.8	2384.4	2384.4	2391.0	2391.0
5°	2368.0	2375.7	2398.7	2410.7	2430.4	2450.2	2462.2	2476.5	2485.2	2489.6	2491.8
7.5°	2429.4	2441.4	2474.3	2495.1	2529.1	2556.5	2575.1	2594.8	2599.2	2611.3	2606.9
10°	2512.6	2526.9	2564.1	2603.6	2644.1	2678.1	2695.6	2709.9	2715.3	2717.5	2712.1
12.5°	2608.0	2628.8	2677.0	2725.2	2767.9	2797.5	2801.9	2798.6	2783.3	2770.1	2770.1
15°	2725.2	2743.8	2797.5	2850.1	2891.8	2897.2	2869.9	2852.3	2833.7	2830.4	2830.4
17.5°	2865.5	2875.3	2924.6	2976.1	2979.4	2960.8	2920.3	2903.8	2886.3	2874.2	2875.3
20°	3028.7	3025.5	3060.5	3082.4	3059.4	3002.4	2941.1	2913.7	2896.2	2881.9	2883.0
22.5°	3223.8	3198.6	3194.2	3188.7	3127.4	3007.9	2924.6	2889.6	2862.2	2842.5	2849.0
25°	3507.6	3411.2	3344.3	3307.1	3169.0	2978.3	2872.0	2794.2	2742.7	2708.8	2721.9
27.5°	3862.6	3700.5	3531.7	3440.8	3169.0	2918.1	2744.9	2618.9	2534.5	2499.5	2517.0
30°	4201.2	4031.4	3782.6	3601.8	3161.3	2819.4	2540.0	2364.7	2266.1	2231.0	2251.8
32.5°	4490.5	4305.3	4048.9	3778.3	3142.7	2659.5	2285.8	2091.8	1996.5	1954.9	1975.7
35°	4759.0	4561.7	4316.3	3972.2	3093.4	2425.0	2006.4	1858.4	1752.2	1685.3	1707.2
37.5°	5034.0	4799.5	4569.4	4147.5	3004.6	2151.0	1791.6	1665.6	1540.7	1450.8	1474.9
40°	5333.2	5052.7	4840.1	4251.6	2858.9	1890.2	1625.0	1510.0	1377.4	1282.1	1300.7
42.5°	5682.7	5356.2	5141.4	4305.3	2659.5	1705.0	1516.6	1403.7	1278.8	1201.0	1216.3
45°	6047.6	5690.4	5416.5	4304.2	2437.0	1618.5	1481.5	1369.7	1231.7	1150.6	1163.7
47.5°	6430.1	6040.0	5654.2	4234.1	2244.2	1630.5	1461.8	1296.3	1144.0	1065.1	1076.1
50°	6813.6	6422.4	5884.4	4102.6	2162.0	1604.2	1388.4	1193.3	1013.6	942.4	946.8
52.5°	7193.8	6828.9	6082.7	3915.2	2078.7	1506.7	1294.1	1059.6	959.9	910.6	910.6
55°	7576.2	7231.1	6298.6	3642.4	1870.5	1392.7	1136.3	1009.2	917.2	872.2	867.9
57.5°	7959.8	7695.7	6503.5	3369.5	1608.6	1252.5	1049.8	947.9	874.4	836.1	829.5
60°	8358.6	8227.1	6715.0	3118.6	1350.0	1072.8	986.2	898.5	824.0	781.3	778.0
62.5°	8769.5	8812.3	6880.4	2795.3	1112.2	963.2	929.2	839.4	767.0	726.5	725.4
65°	9183.8	9376.6	6988.9	2347.2	901.8	859.1	867.9	774.7	701.3	666.2	665.1
67.5°	9496.1	9783.1	6958.2	1776.3	739.7	760.5	791.2	706.8	637.7	610.4	611.4
70°	9531.1	9734.9	6655.8	1216.3	619.1	664.0	705.7	639.9	568.7	549.0	550.1
72.5°	9064.3	9077.5	5813.1	794.4	523.8	583.0	615.8	572.0	503.0	483.2	482.1
75°	7840.3	7507.2	4268.1	523.8	438.3	500.8	531.5	500.8	433.9	438.3	423.0
77.5°	5940.2	5316.7	2591.5	372.6	366.0	420.8	462.4	440.5	383.5	430.6	379.1
80°	3060.5	2876.4	1156.1	278.3	289.3	336.4	380.2	351.7	303.5	289.3	264.1
82.5°	701.3	815.3	455.8	199.4	209.3	242.2	290.4	264.1	218.1	184.1	181.9
85°	245.5	268.5	201.6	124.9	122.7	151.2	197.2	176.4	147.9	118.3	124.9
87.5°	77.8	101.9	75.6	50.4	52.6	67.9	90.9	83.3	69.0	44.9	47.1
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)