

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: P948072

Luminaire Tested: **GALN-SB3B-727-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948072
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3B-727-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15316 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 109.2
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

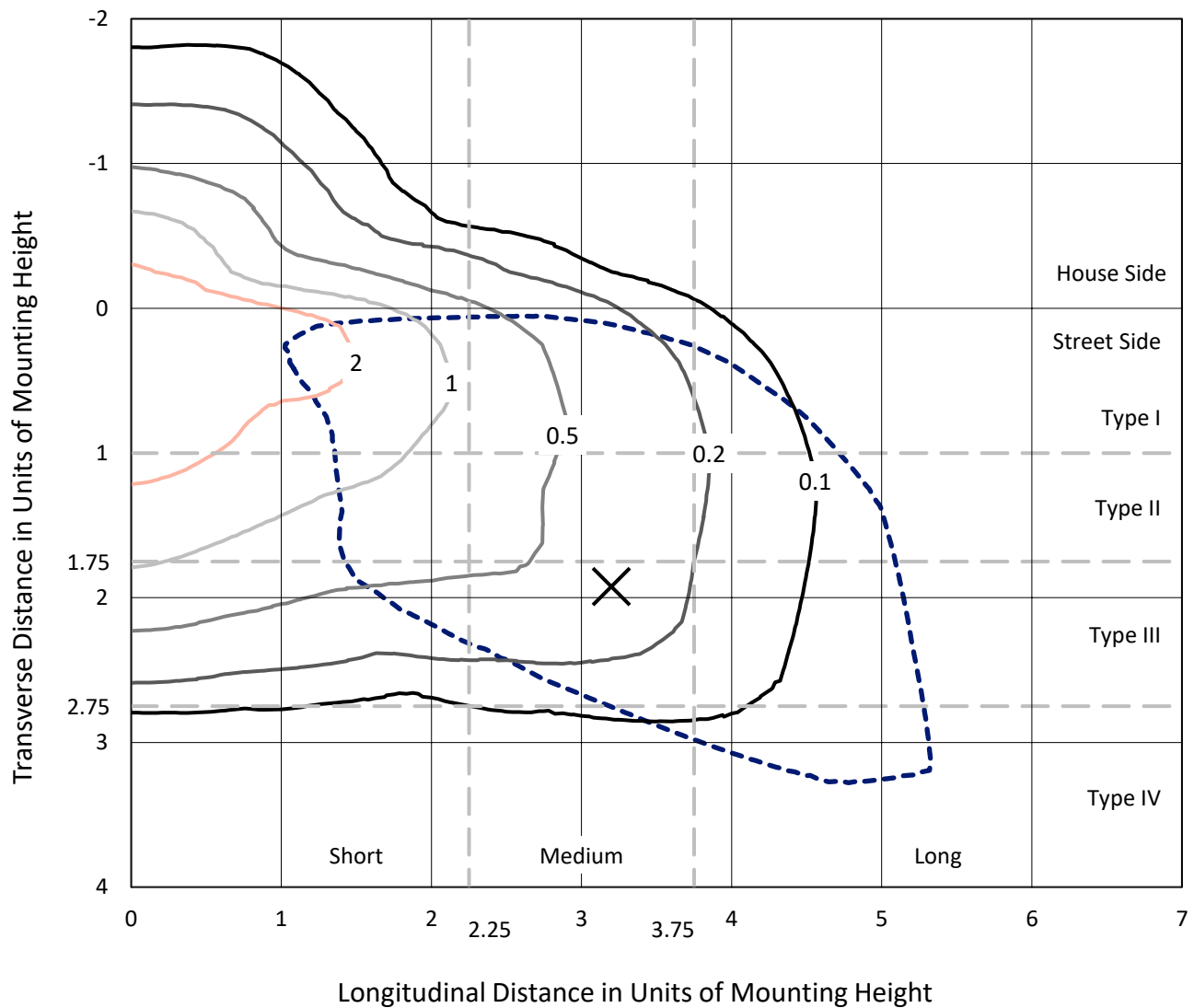


REPORT NUMBER: P948072

CATALOG NUMBER: GALN-SB3B-727-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

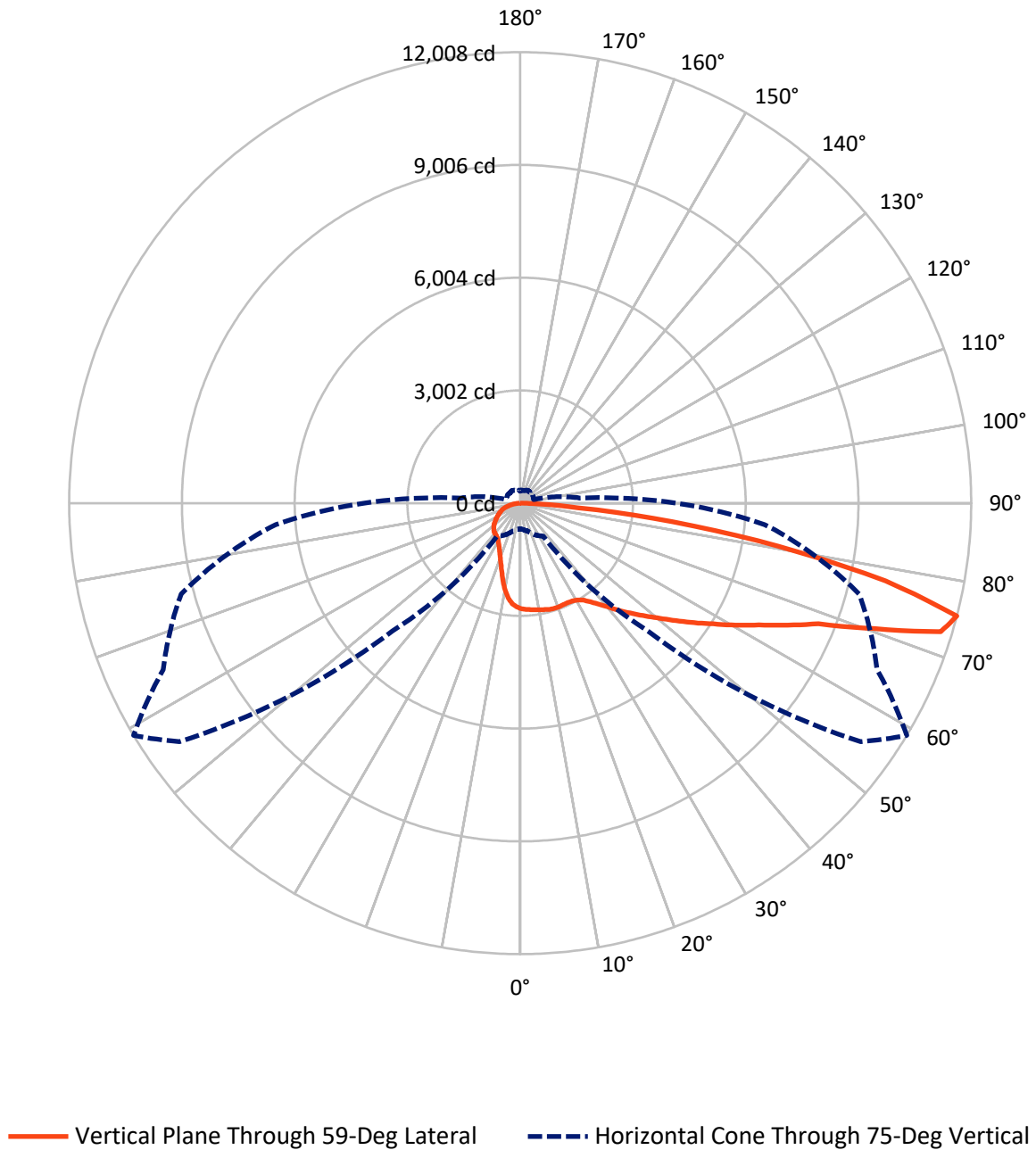


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
Type IV - Medium - N/A

REPORT NUMBER: P948072

CATALOG NUMBER: GALN-SB3B-727-U-SL3

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2872.6	0.0	2872.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	12443.4	0.0	12443.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	15316.0	0.0	15316.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.1	1.6
10°-20°	644.3	4.2
20°-30°	978.7	6.4
30°-40°	1454.7	9.5
40°-50°	2163.5	14.1
50°-60°	2936.6	19.2
60°-70°	3585.2	23.4
70°-80°	2813.6	18.4
80°-90°	487.4	3.2
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°	15316.0	100.0
0°-180°	15316.0	100.0

Coefficient of Utilization



REPORT NUMBER: P948072

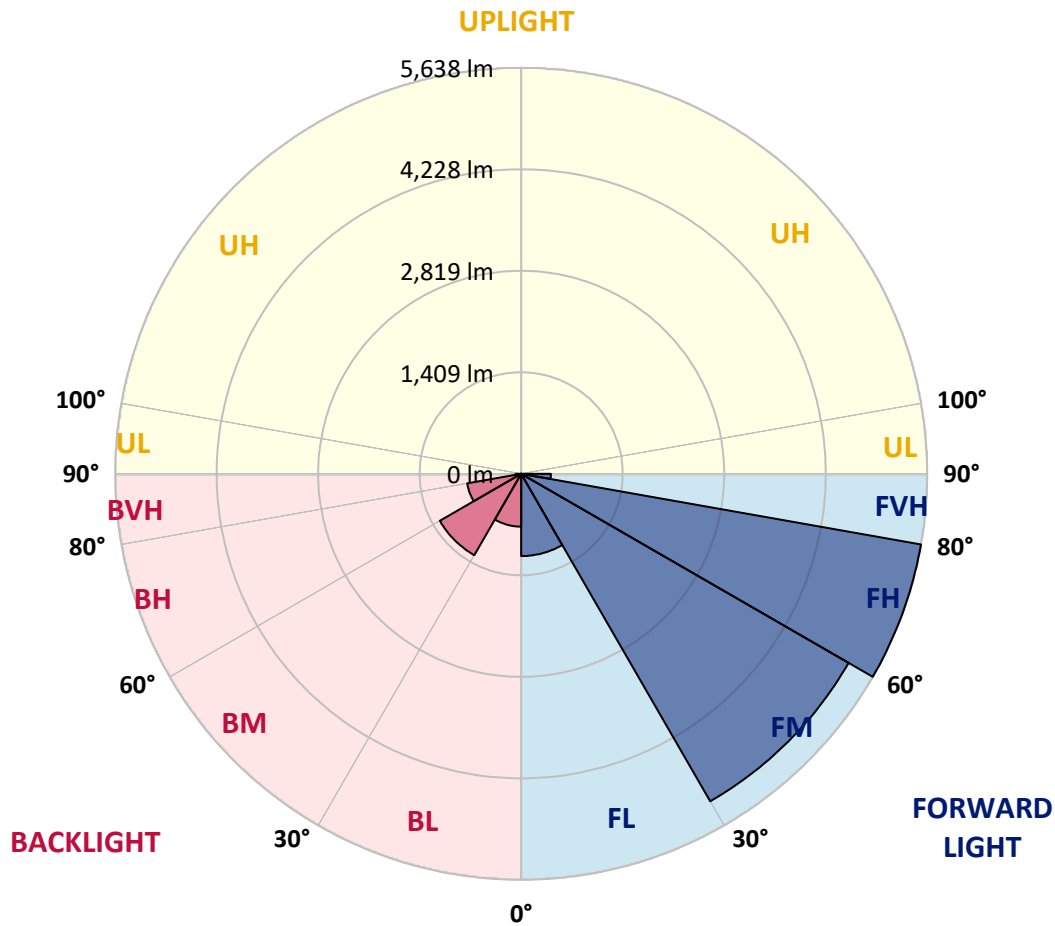
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1142.0	7.5			
FM	(30°-60°)	5251.0	34.3			
FH	(60°-80°)	5637.7	36.8			G3/7500
FVH	(80°-90°)	412.8	2.7			G3/500
BL	(0°-30°)	733.1	4.8	B2/1000		
BM	(30°-60°)	1303.9	8.5	B2/2500		
BH	(60°-80°)	761.1	5.0	B2/1000		G2/1000
BVH	(80°-90°)	74.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium



REPORT NUMBER: P948072

CATALOG NUMBER: GALN-SB3B-727-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2811.2	2811.2	2811.2	2811.2	2811.2	2811.2	2811.2	2811.2	2811.2	2811.2	2811.2
2.5°	2835.1	2825.2	2835.1	2831.0	2829.3	2826.0	2826.9	2832.6	2829.3	2833.5	2819.5
5°	2816.2	2810.4	2820.3	2817.8	2828.5	2830.2	2840.9	2847.5	2851.6	2852.4	2841.7
7.5°	2784.9	2779.1	2793.1	2804.6	2827.7	2834.3	2856.5	2867.2	2873.0	2882.9	2867.2
10°	2670.3	2667.9	2702.5	2746.1	2800.5	2834.3	2868.1	2886.2	2895.3	2921.6	2903.5
12.5°	2467.6	2470.9	2516.3	2600.3	2709.1	2817.8	2881.3	2907.6	2921.6	2954.6	2946.3
15°	2274.0	2273.2	2322.6	2412.4	2564.9	2745.3	2887.8	2933.2	2957.1	3005.7	2999.1
17.5°	2162.0	2158.7	2193.3	2261.7	2403.4	2634.1	2871.4	2947.2	2998.2	3059.2	3053.5
20°	2141.4	2134.8	2152.9	2186.7	2287.2	2512.1	2828.5	2947.2	3031.2	3110.3	3107.0
22.5°	2216.3	2205.6	2198.2	2194.1	2238.6	2411.6	2779.9	2937.3	3079.8	3183.6	3177.9
25°	2367.1	2350.6	2312.7	2275.7	2262.5	2366.3	2737.1	2934.8	3152.3	3282.5	3261.1
27.5°	2611.0	2590.4	2513.8	2424.8	2344.9	2389.4	2718.1	2949.6	3232.2	3387.1	3344.3
30°	2913.4	2891.1	2794.7	2658.0	2514.6	2475.1	2742.0	2993.3	3334.4	3526.4	3442.3
32.5°	3184.5	3159.7	3077.3	2938.1	2744.5	2623.4	2817.8	3076.5	3495.1	3720.0	3589.8
35°	3425.0	3396.2	3322.0	3193.5	3026.3	2831.8	2954.6	3224.0	3723.3	4034.7	3790.0
37.5°	3660.7	3626.9	3546.2	3410.2	3293.2	3109.5	3143.3	3413.5	4026.5	4417.0	4055.3
40°	3924.3	3875.7	3777.7	3643.4	3529.7	3434.9	3391.3	3645.8	4334.6	4843.8	4386.6
42.5°	4179.8	4133.6	4016.6	3902.1	3759.6	3732.4	3678.8	3917.7	4671.6	5312.6	4722.7
45°	4454.9	4399.7	4258.0	4113.0	4023.2	3930.1	3957.3	4189.6	5002.0	5790.5	5075.4
47.5°	4712.8	4651.0	4483.8	4322.3	4272.9	4096.5	4212.7	4488.7	5345.6	6275.0	5424.7
50°	4852.1	4791.1	4651.9	4506.0	4467.3	4301.7	4489.5	4817.5	5705.7	6757.8	5760.0
52.5°	4968.2	4902.3	4720.2	4639.5	4628.0	4525.0	4830.6	5193.2	6065.7	7184.6	6083.8
55°	5091.8	5018.5	4786.2	4713.7	4766.4	4775.4	5235.2	5619.1	6446.4	7600.7	6389.5
57.5°	5234.4	5141.3	4849.6	4776.3	4901.5	5068.8	5699.9	6060.8	6820.4	7986.3	6661.4
60°	5368.7	5274.7	4971.5	4876.0	5047.3	5409.0	6233.0	6595.5	7243.9	8329.8	6918.5
62.5°	5395.0	5317.6	5068.8	5067.9	5245.1	5806.2	6864.1	7135.2	7613.9	8669.3	7149.2
65°	4938.6	4890.0	4742.5	5060.5	5528.5	6378.0	7566.9	7825.6	8084.3	8965.9	7351.8
67.5°	3758.7	3765.3	3754.6	4368.4	5299.5	7199.4	8584.4	8564.7	8665.2	9298.8	7585.0
70°	1718.7	1757.4	2009.5	3015.6	4245.7	7294.2	10266.9	10010.6	9394.3	9729.7	7786.9
72.5°	928.6	958.2	1061.2	1460.8	2552.5	6485.1	11524.2	11706.3	10364.1	10019.7	7565.2
75°	681.4	697.9	769.5	928.6	1071.9	4819.9	11073.5	12007.8	10485.2	9343.3	6532.9
77.5°	510.0	517.4	575.9	735.8	548.7	2541.0	8848.1	9944.7	8975.8	7676.5	4825.7
80°	369.9	378.2	421.8	552.0	384.8	929.4	6075.6	6980.3	6147.3	4893.3	2405.0
82.5°	255.4	258.7	277.7	375.7	268.6	360.9	3447.3	4093.2	3431.6	1717.1	649.2
85°	154.1	158.2	166.4	219.2	152.4	171.4	1488.0	1539.1	1025.8	410.3	201.9
87.5°	63.4	67.6	74.2	92.3	60.1	47.8	245.5	308.1	192.0	120.3	62.6
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: P948072

CATALOG NUMBER: GALN-SB3B-727-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2811.2	2811.2	2811.2	2811.2	2811.2	2811.2	2811.2	2811.2	2811.2	2811.2	2811.2
2.5°	2815.3	2809.6	2793.9	2772.5	2752.7	2728.0	2717.3	2708.2	2700.0	2684.3	2676.9
5°	2832.6	2817.0	2775.0	2720.6	2658.8	2591.2	2525.3	2480.0	2441.3	2412.4	2388.5
7.5°	2859.0	2829.3	2752.7	2641.5	2499.8	2354.8	2223.8	2130.7	2060.6	2035.1	1990.6
10°	2886.2	2850.8	2717.3	2521.2	2276.5	2053.2	1879.4	1783.8	1727.8	1709.6	1681.6
12.5°	2918.3	2866.4	2662.1	2353.9	2026.8	1782.1	1630.5	1574.5	1545.7	1535.8	1538.3
15°	2965.3	2879.6	2578.9	2144.7	1788.7	1584.4	1486.4	1447.6	1432.8	1432.0	1435.3
17.5°	3000.7	2882.1	2449.5	1920.6	1605.8	1464.9	1384.2	1369.4	1379.2	1394.1	1399.8
20°	3040.3	2859.8	2279.8	1716.2	1477.3	1360.3	1326.5	1336.4	1360.3	1381.7	1389.1
22.5°	3068.3	2819.5	2074.6	1557.2	1366.1	1300.1	1298.5	1319.1	1332.3	1343.0	1348.8
25°	3093.0	2751.1	1857.1	1423.7	1274.6	1263.9	1282.0	1275.4	1266.4	1275.4	1281.2
27.5°	3111.1	2643.1	1662.7	1306.7	1210.3	1239.2	1228.5	1213.6	1212.8	1217.8	1226.0
30°	3105.4	2499.0	1502.8	1195.5	1165.0	1193.0	1167.5	1165.0	1162.6	1165.0	1174.1
32.5°	3105.4	2335.0	1380.1	1118.9	1136.2	1125.5	1123.0	1117.2	1107.3	1106.5	1117.2
35°	3122.7	2171.0	1274.6	1077.7	1112.3	1086.8	1088.4	1074.4	1053.8	1043.9	1053.8
37.5°	3158.1	2039.2	1170.0	1057.9	1070.3	1069.4	1062.9	1039.0	1002.7	971.4	982.1
40°	3243.8	2000.5	1098.3	1048.9	1050.5	1060.4	1043.1	996.9	914.6	863.5	870.1
42.5°	3378.1	2065.6	1082.6	1026.6	1037.3	1047.2	1013.4	906.3	847.8	817.3	817.3
45°	3548.6	2179.3	1116.4	994.5	1006.0	1023.3	922.8	871.7	845.3	846.2	850.3
47.5°	3764.5	2298.7	1179.0	966.5	960.7	970.6	862.6	831.3	795.1	804.1	827.2
50°	4014.1	2419.9	1238.4	928.6	910.4	878.3	823.9	794.3	748.1	726.7	732.5
52.5°	4284.4	2536.9	1262.2	882.4	856.1	819.0	797.6	761.3	705.3	669.8	669.0
55°	4540.6	2643.1	1235.9	827.2	801.7	772.8	769.5	747.3	687.1	637.7	637.7
57.5°	4782.9	2732.1	1170.0	771.2	746.5	729.2	751.4	740.7	664.9	601.5	598.2
60°	4988.0	2793.1	1074.4	714.3	697.0	688.0	721.8	718.5	633.6	562.7	560.3
62.5°	5151.2	2817.0	968.9	660.0	655.8	639.4	680.6	680.6	594.0	524.8	522.4
65°	5278.9	2793.9	861.8	606.4	614.6	589.9	630.3	625.4	552.0	491.1	487.8
67.5°	5391.7	2718.1	743.2	553.7	572.6	541.3	577.6	566.0	505.9	457.3	454.0
70°	5442.0	2541.8	608.1	500.9	524.0	493.5	524.8	503.4	454.0	421.0	414.4
72.5°	5038.3	2112.5	478.7	445.7	465.5	440.8	468.0	443.3	398.0	383.1	370.8
75°	4168.2	1585.2	368.3	385.6	400.4	381.5	399.6	381.5	340.3	351.0	320.5
77.5°	3027.1	1070.3	281.8	322.2	328.7	318.9	334.5	313.9	276.8	274.4	262.0
80°	1505.3	627.0	220.8	254.6	252.1	245.5	263.7	253.8	222.5	235.6	233.2
82.5°	435.9	268.6	160.7	178.8	173.8	175.5	188.7	193.6	290.0	287.5	294.1
85°	136.8	105.5	96.4	99.7	94.8	97.2	111.2	220.8	204.3	119.5	129.4
87.5°	35.4	36.3	23.9	25.5	26.4	31.3	35.4	134.3	64.3	42.0	44.5
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)