

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: P939922

Luminaire Tested: **GALN-SB2D-730-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939922
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-730-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20173 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 147.6
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

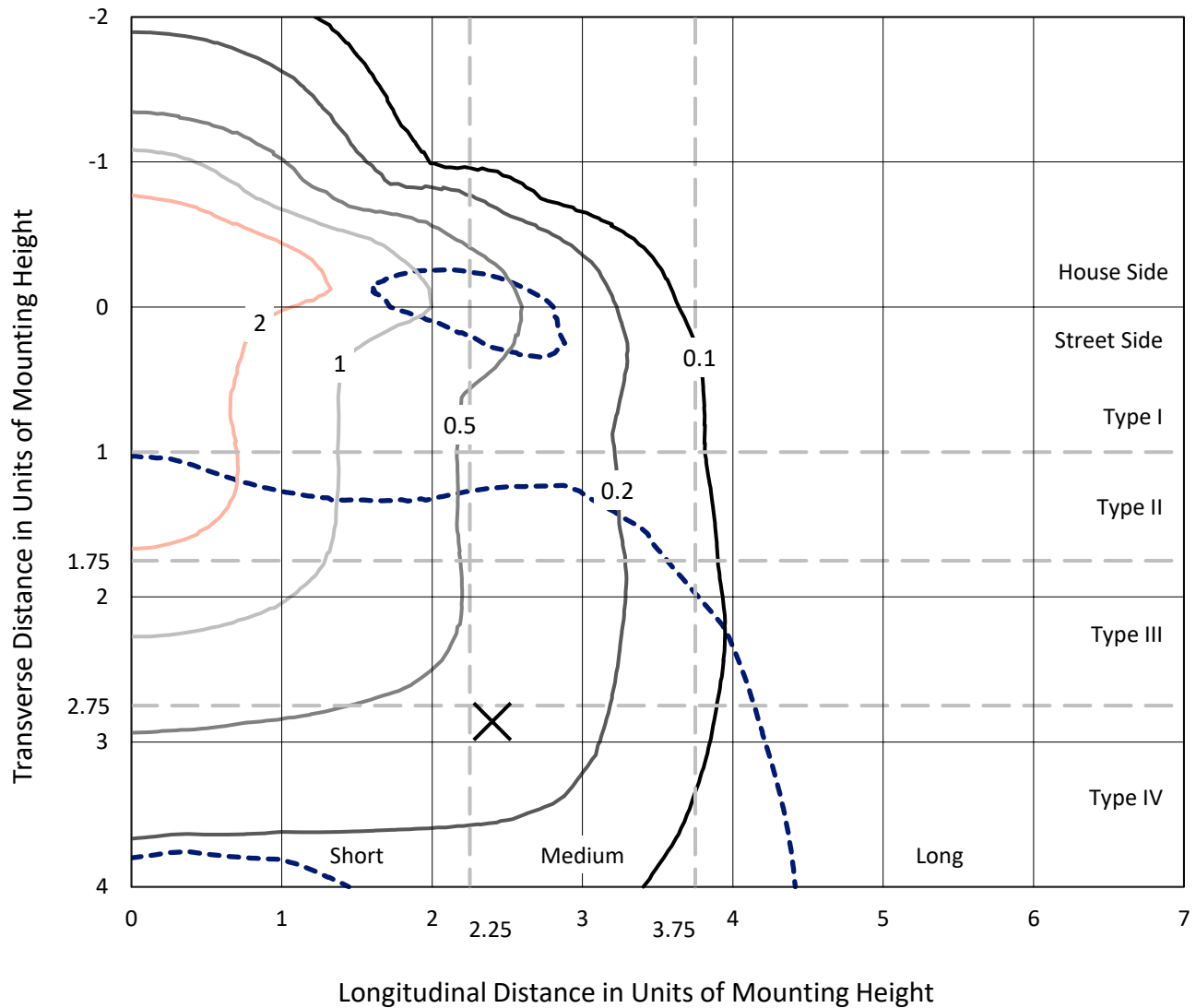


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

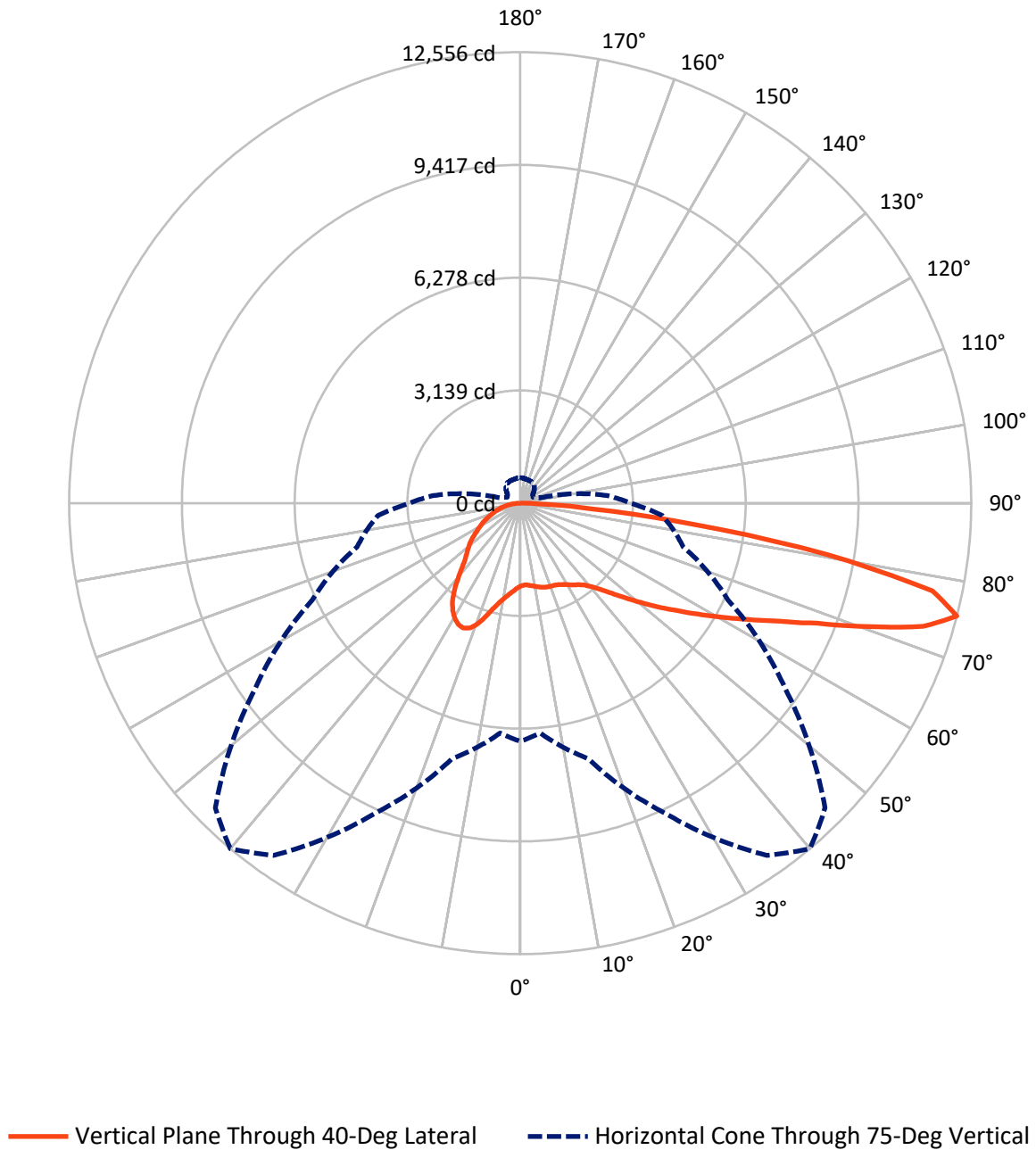


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6250.3	0.0	6250.3
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	13922.7	0.0	13922.7
	% Fixture	69.0	0.0	69.0
Total	Lumens	20173.0	0.0	20173.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.3	1.1
10°-20°	773.1	3.8
20°-30°	1411.6	7.0
30°-40°	2002.1	9.9
40°-50°	2703.4	13.4
50°-60°	3636.8	18.0
60°-70°	4615.9	22.9
70°-80°	4189.2	20.8
80°-90°	610.6	3.0
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°	20173.0	100.0
0°-180°	20173.0	100.0

Coefficient of Utilization



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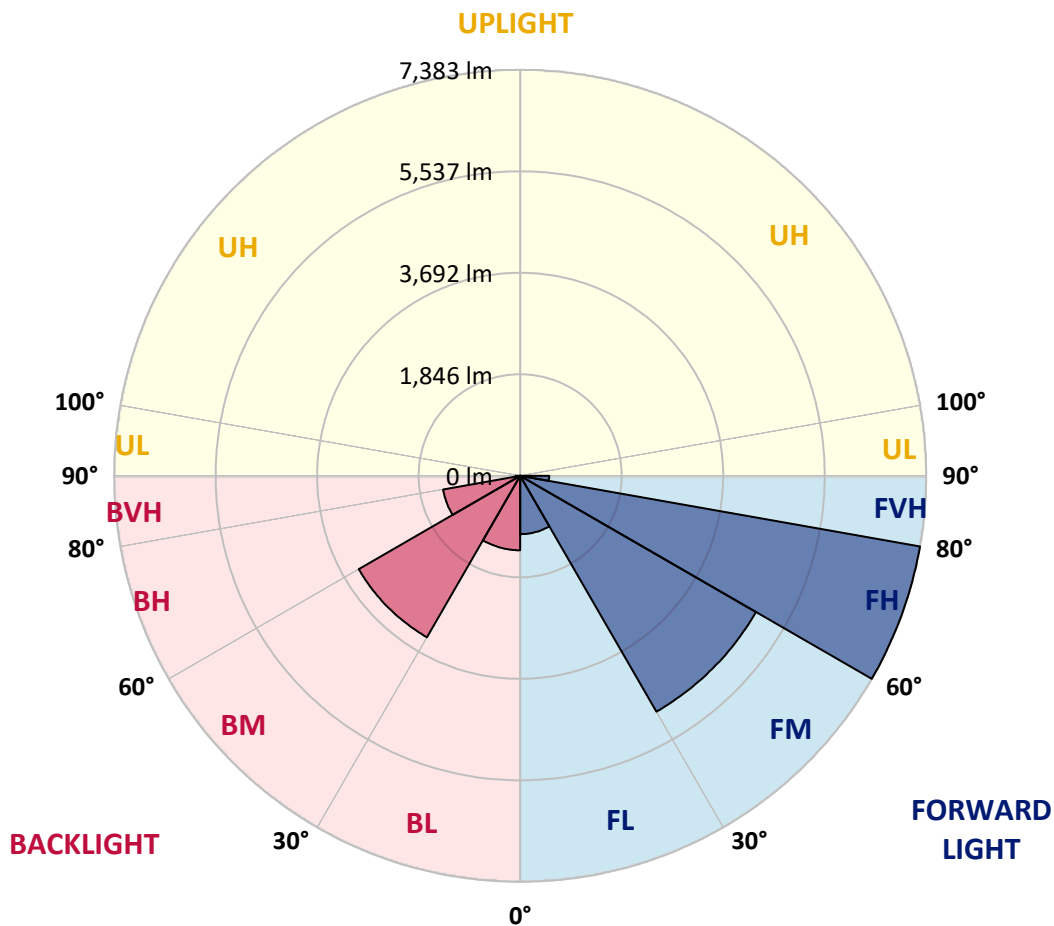
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1061.1	5.3			
FM	(30°-60°)	4952.0	24.5			
FH	(60°-80°)	7383.0	36.6			G3/7500
FVH	(80°-90°)	526.6	2.6			G4/750
BL	(0°-30°)	1353.9	6.7	B3/2500		
BM	(30°-60°)	3390.2	16.8	B3/5000		
BH	(60°-80°)	1422.1	7.0	B3/2500		G3/2500
BVH	(80°-90°)	84.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2306.8	2306.8	2306.8	2306.8	2306.8	2306.8	2306.8	2306.8	2306.8	2306.8	2306.8
2.5°	2271.5	2284.3	2281.1	2276.9	2276.9	2277.9	2276.9	2284.3	2291.8	2299.3	2311.1
5°	2295.0	2307.9	2301.5	2296.1	2291.8	2290.8	2287.6	2286.5	2290.8	2300.4	2316.4
7.5°	2341.0	2353.9	2344.3	2334.6	2326.1	2321.8	2317.5	2311.1	2307.9	2313.2	2335.7
10°	2392.4	2405.2	2393.5	2376.4	2362.4	2357.1	2352.8	2346.4	2342.1	2345.3	2369.9
12.5°	2443.8	2456.6	2440.6	2417.0	2398.8	2395.6	2390.3	2388.1	2387.1	2386.0	2410.6
15°	2491.9	2502.6	2482.3	2454.5	2435.2	2429.9	2424.5	2427.7	2433.1	2439.5	2467.3
17.5°	2529.4	2540.1	2510.1	2473.7	2455.5	2453.4	2450.2	2460.9	2475.9	2491.9	2526.1
20°	2563.6	2574.3	2535.8	2486.6	2465.2	2465.2	2466.2	2488.7	2510.1	2533.6	2580.7
22.5°	2611.7	2620.3	2573.2	2505.8	2474.8	2476.9	2485.5	2508.0	2534.7	2566.8	2632.1
25°	2683.4	2689.9	2632.1	2542.2	2506.9	2513.3	2520.8	2531.5	2557.2	2594.6	2682.4
27.5°	2799.0	2804.3	2728.4	2606.4	2552.9	2563.6	2574.3	2566.8	2578.6	2610.7	2723.0
30°	2961.6	2964.8	2868.5	2707.0	2631.0	2636.4	2638.5	2607.5	2585.0	2610.7	2751.9
32.5°	3154.2	3153.1	3038.7	2828.9	2719.8	2714.5	2696.3	2635.3	2582.9	2605.3	2777.6
35°	3452.7	3441.0	3293.3	3000.1	2820.4	2787.2	2744.4	2666.3	2593.6	2600.0	2800.1
37.5°	3947.0	3910.7	3706.3	3280.5	2970.2	2885.7	2822.5	2716.6	2617.1	2597.8	2826.8
40°	4504.5	4458.5	4233.8	3664.6	3194.9	3059.0	2957.3	2788.3	2655.6	2607.5	2866.4
42.5°	5165.7	5100.4	4858.6	4117.2	3479.5	3282.6	3129.6	2879.2	2712.3	2638.5	2919.9
45°	5977.8	5891.1	5548.8	4627.5	3837.9	3575.8	3371.4	3017.3	2799.0	2698.4	3000.1
47.5°	6798.5	6819.9	6333.0	5211.7	4268.0	3937.4	3674.2	3224.8	2925.2	2794.7	3129.6
50°	7670.5	7685.4	7113.0	5859.0	4755.9	4346.1	4014.4	3457.0	3100.7	2931.7	3323.3
52.5°	8350.9	8353.1	7821.3	6536.3	5264.1	4795.5	4381.4	3722.4	3304.0	3113.6	3581.1
55°	8776.8	8771.4	8317.8	7177.2	5848.3	5267.4	4788.0	4024.1	3552.2	3327.5	3905.3
57.5°	9086.0	9070.0	8660.2	7728.2	6471.0	5824.8	5248.1	4366.5	3845.4	3582.2	4332.2
60°	9203.7	9194.1	8892.3	8204.4	7125.9	6441.1	5778.8	4749.5	4178.1	3882.8	4881.1
62.5°	9248.6	9266.8	9120.2	8665.5	7826.7	7123.7	6361.9	5207.4	4552.6	4223.1	5459.9
65°	9407.0	9440.2	9410.2	9269.0	8618.4	7923.0	7135.5	5752.0	4961.4	4587.9	6064.5
67.5°	9720.5	9753.7	9766.5	9991.2	9585.7	8919.1	8100.6	6430.4	5439.6	4966.7	6519.2
70°	9713.0	9703.4	9930.2	10565.7	10796.9	10298.3	9401.6	7265.0	6009.9	5281.3	6577.0
72.5°	8841.0	8763.9	9300.0	10559.3	11804.7	11738.4	10990.5	8341.3	6502.1	5319.8	5707.1
75°	6632.6	6427.2	7374.1	9516.1	11972.7	12555.8	12000.5	9009.0	6385.5	4700.3	3971.6
77.5°	2836.4	2629.9	3745.9	7044.5	10715.5	11737.3	11074.0	7859.8	5097.2	3108.2	1950.5
80°	742.5	741.5	1132.0	3193.8	7287.4	8667.7	7604.1	5075.8	2912.4	1110.6	538.2
82.5°	307.1	299.6	416.2	1242.2	3560.8	4864.0	3969.5	2264.0	1051.8	300.7	178.7
85°	114.5	113.4	202.2	429.0	1256.1	2006.2	1451.9	578.8	262.1	146.6	80.2
87.5°	32.1	31.0	43.9	148.7	306.0	464.4	248.2	95.2	73.8	57.8	23.5
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°	2306.8	2306.8	2306.8	2306.8	2306.8	2306.8	2306.8	2306.8	2306.8	2306.8	2306.8
2.5°	2314.3	2319.6	2329.3	2336.8	2346.4	2357.1	2372.1	2381.7	2391.3	2397.8	2393.5
5°	2323.9	2335.7	2360.3	2384.9	2413.8	2440.6	2471.6	2494.1	2512.2	2517.6	2519.7
7.5°	2345.3	2364.6	2406.3	2448.0	2494.1	2537.9	2582.9	2621.4	2652.4	2664.2	2665.2
10°	2382.8	2408.5	2467.3	2526.1	2587.1	2654.5	2712.3	2768.0	2811.8	2830.0	2831.1
12.5°	2429.9	2462.0	2539.0	2620.3	2704.8	2797.9	2872.8	2941.3	2995.9	3020.5	3020.5
15°	2490.8	2532.6	2631.0	2740.1	2864.3	2993.7	3088.9	3164.9	3225.9	3255.9	3253.7
17.5°	2557.2	2612.8	2736.9	2901.7	3079.3	3249.4	3360.7	3416.3	3479.5	3508.4	3507.3
20°	2621.4	2689.9	2867.5	3107.1	3343.6	3524.4	3614.3	3629.3	3633.5	3636.8	3645.3
22.5°	2687.7	2779.7	3031.2	3366.1	3619.6	3744.8	3757.7	3693.5	3603.6	3561.9	3573.6
25°	2760.5	2882.4	3245.2	3651.7	3857.2	3872.1	3773.7	3617.5	3447.4	3369.3	3381.0
27.5°	2831.1	3001.2	3501.9	3924.6	4028.4	3896.8	3684.9	3463.4	3258.0	3175.6	3185.2
30°	2901.7	3137.1	3785.5	4163.2	4106.5	3835.8	3544.7	3297.6	3091.1	3004.4	3014.0
32.5°	2973.4	3295.4	4111.8	4335.4	4092.6	3706.3	3370.3	3111.4	2929.5	2838.6	2850.3
35°	3054.7	3490.2	4421.0	4429.6	3999.5	3515.9	3140.3	2888.9	2730.5	2657.8	2673.8
37.5°	3160.6	3737.3	4693.9	4453.1	3836.8	3236.6	2854.6	2625.7	2495.1	2462.0	2485.5
40°	3292.2	4034.8	4902.5	4415.7	3596.1	2897.4	2542.2	2359.2	2285.4	2292.9	2318.6
42.5°	3463.4	4367.5	5049.1	4319.4	3261.2	2547.5	2268.3	2187.0	2222.3	2252.2	2280.1
45°	3686.0	4713.1	5140.0	4155.7	2882.4	2251.2	2106.7	2126.0	2152.7	2155.9	2177.3
47.5°	3970.6	5063.0	5200.0	3908.5	2496.2	2042.5	2004.0	2008.3	2002.9	1980.5	1997.6
50°	4325.8	5403.2	5253.4	3581.1	2167.7	1912.0	1860.6	1845.7	1771.8	1699.1	1708.7
52.5°	4730.2	5715.7	5275.9	3174.5	1912.0	1802.9	1719.4	1625.3	1487.2	1464.8	1472.2
55°	5179.6	6004.6	5218.1	2674.9	1696.9	1662.7	1536.4	1423.0	1408.1	1388.8	1392.0
57.5°	5716.7	6315.9	5100.4	2117.4	1476.5	1499.0	1376.0	1388.8	1362.0	1332.1	1326.7
60°	6304.1	6638.0	4893.9	1609.2	1248.6	1294.6	1334.2	1333.2	1325.7	1301.1	1292.5
62.5°	6832.7	6849.8	4487.4	1232.6	1048.5	1136.3	1244.4	1243.3	1236.9	1223.0	1217.6
65°	7147.3	6817.7	3809.0	970.4	883.8	1005.8	1122.4	1130.9	1132.0	1130.9	1130.9
67.5°	7091.6	6442.2	2878.2	772.5	747.9	873.1	1001.5	1013.2	1021.8	1023.9	1026.1
70°	6462.5	5617.2	1876.7	616.3	627.0	756.5	887.0	898.8	906.2	914.8	919.1
72.5°	5037.3	4130.0	1074.2	498.6	521.1	655.9	773.6	787.5	791.8	807.8	814.2
75°	3069.7	2428.8	579.9	392.7	428.0	560.7	661.2	677.3	684.8	704.0	706.2
77.5°	1459.4	1051.8	330.6	306.0	344.5	457.9	558.5	576.7	556.4	567.1	558.5
80°	493.2	390.5	208.6	233.2	263.2	357.4	447.2	465.4	422.6	420.5	416.2
82.5°	172.3	158.4	132.7	155.1	170.1	255.7	338.1	361.6	314.6	313.5	298.5
85°	67.4	64.2	73.8	84.5	101.6	157.3	222.5	234.3	193.7	156.2	154.1
87.5°	13.9	15.0	18.2	19.3	31.0	54.6	80.2	98.4	78.1	66.3	61.0
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)