

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: P942808

Luminaire Tested: **GALN-SB7A-727-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942808
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22404 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 199.1
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



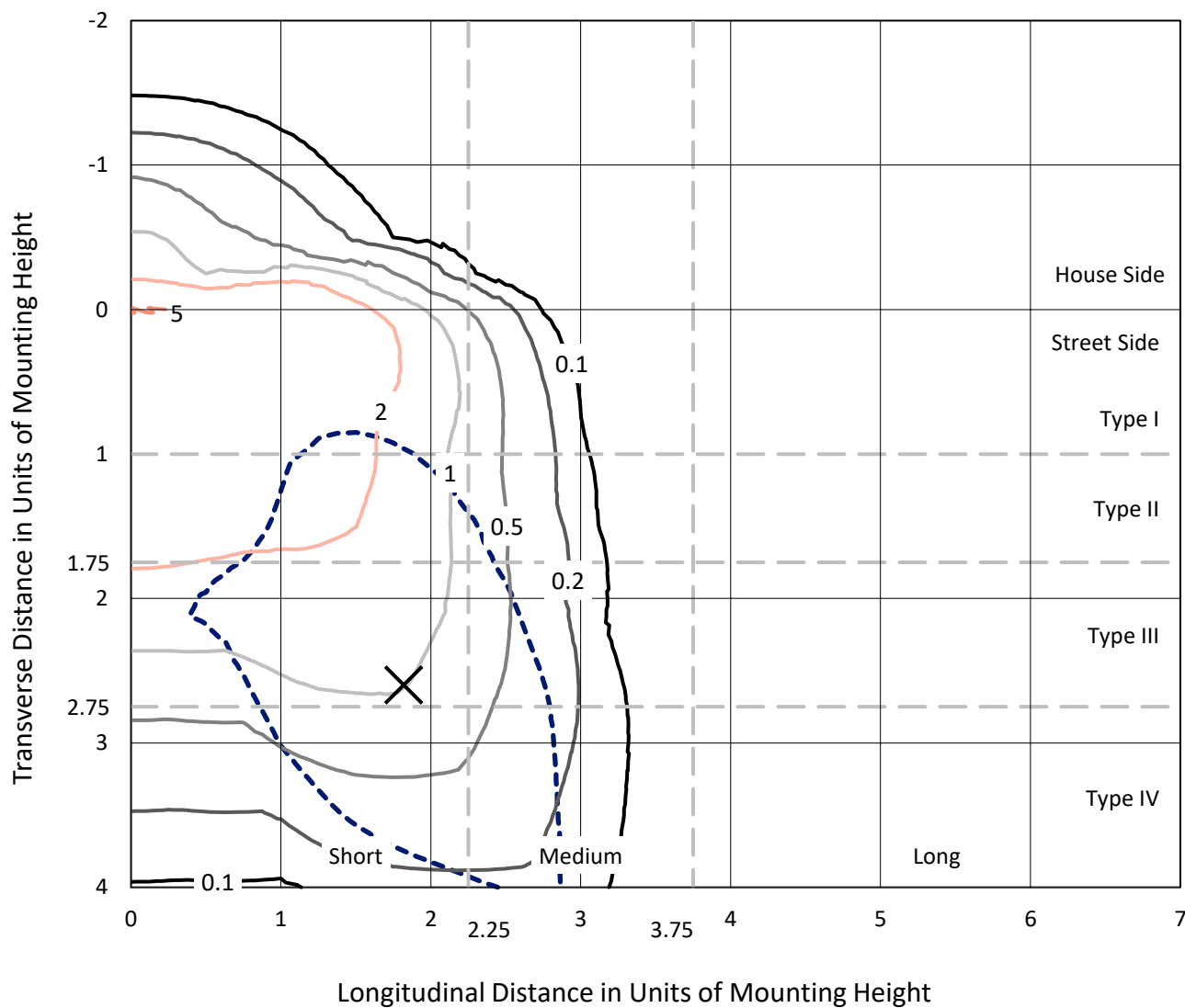
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

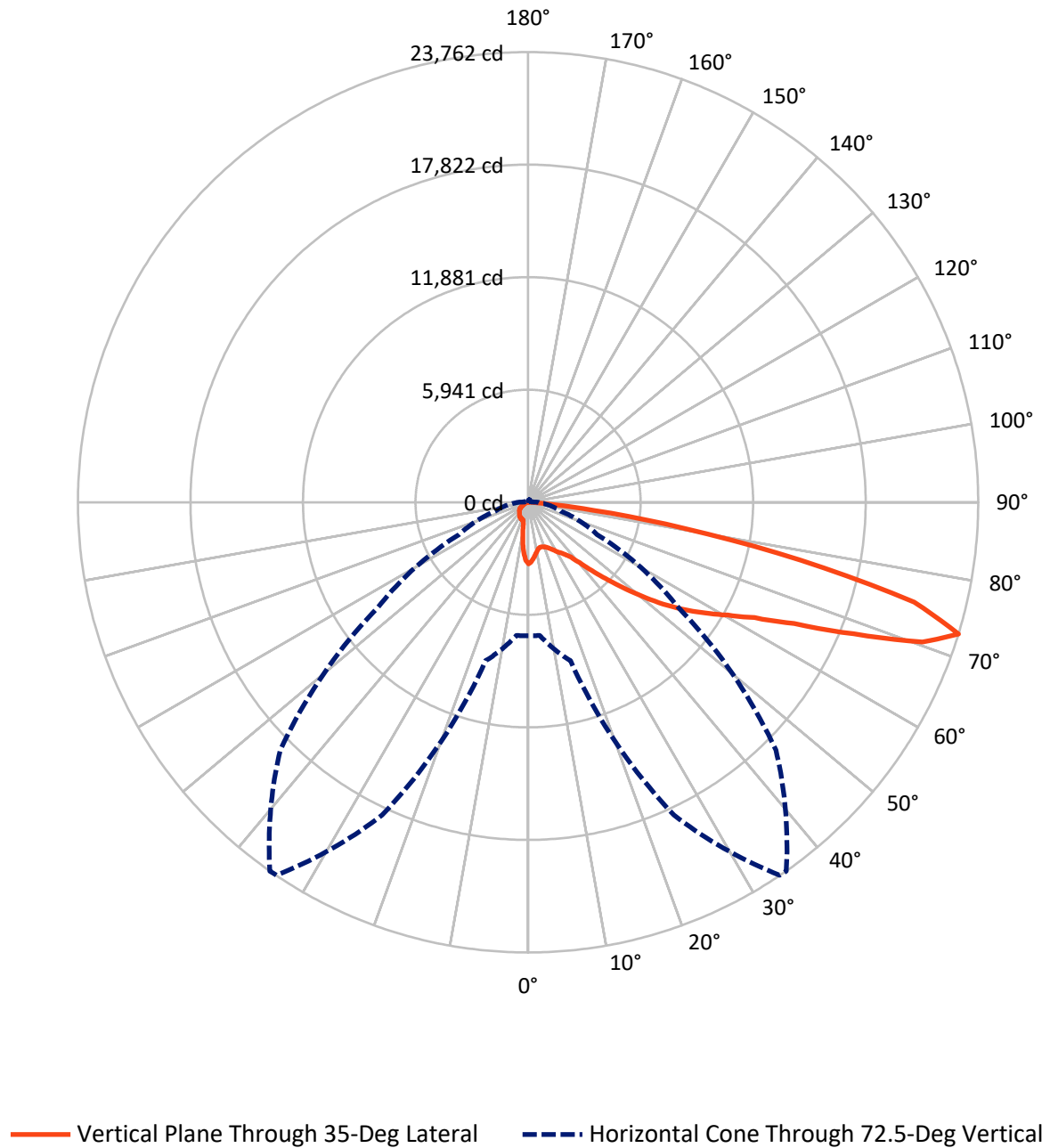
--- 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2521.5	0.0	2521.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	19882.5	0.0	19882.5
	% Fixture	88.7	0.0	88.7
Total	Lumens	22404.0	0.0	22404.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.8	1.2
10°-20°	624.2	2.8
20°-30°	1014.0	4.5
30°-40°	1691.9	7.6
40°-50°	3201.0	14.3
50°-60°	5086.4	22.7
60°-70°	6292.3	28.1
70°-80°	3911.3	17.5
80°-90°	316.1	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°	22404.0	100.0
0°-180°	22404.0	100.0

Coefficient of Utilization



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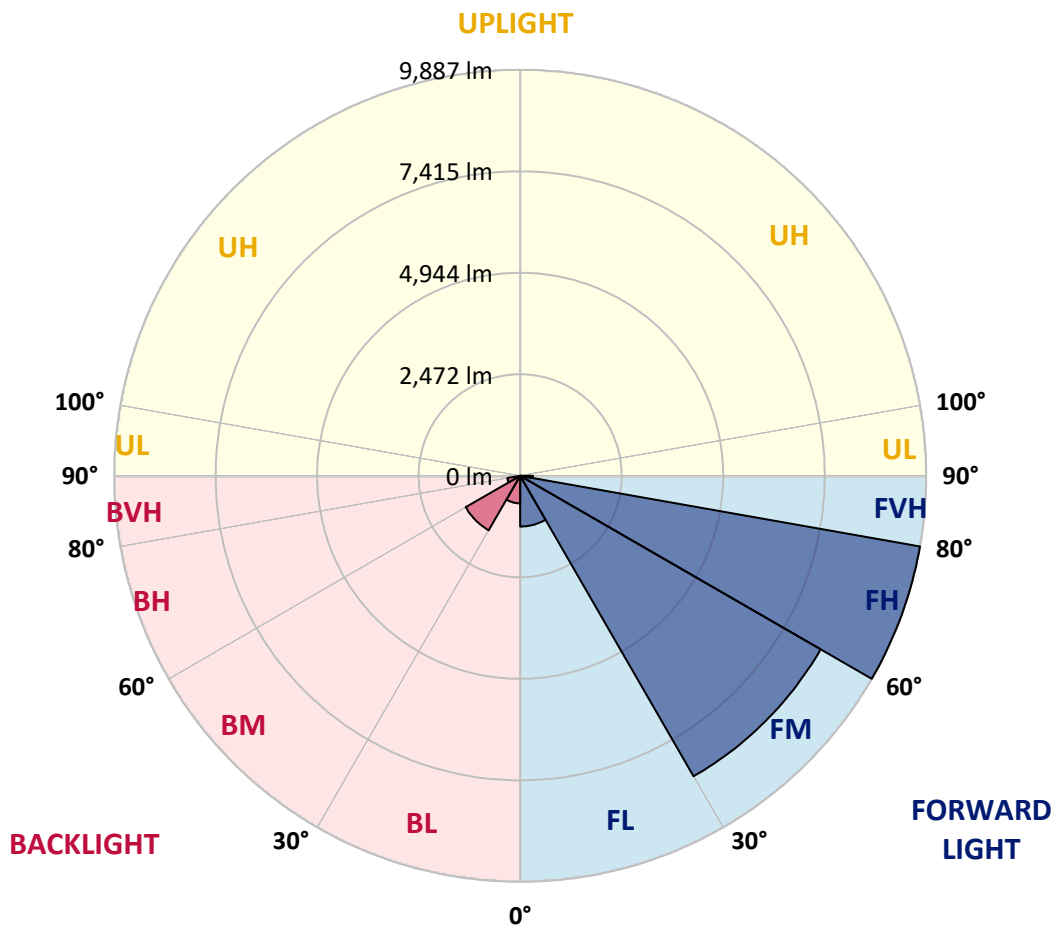
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1235.0	5.5			
FM	(30°-60°)	8448.5	37.7			
FH	(60°-80°)	9887.2	44.1			G4/12000
FVH	(80°-90°)	311.8	1.4			G3/500
BL	(0°-30°)	670.0	3.0	B2/1000		
BM	(30°-60°)	1530.8	6.8	B2/2500		
BH	(60°-80°)	316.4	1.4	B1/500		G1/500
BVH	(80°-90°)	4.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3247.1	3247.1	3247.1	3247.1	3247.1	3247.1	3247.1	3247.1	3247.1	3247.1	3247.1
2.5°	3102.6	3128.9	3133.8	3142.0	3142.0	3151.9	3168.3	3191.3	3229.0	3248.7	3261.9
5°	2859.7	2879.4	2904.0	2923.7	2961.5	2966.4	3030.4	3092.8	3179.8	3245.4	3291.4
7.5°	2615.1	2638.1	2670.9	2718.5	2767.7	2782.5	2879.4	2984.4	3122.3	3245.4	3322.6
10°	2442.7	2444.3	2473.9	2521.5	2600.3	2618.4	2736.6	2885.9	3058.3	3225.7	3352.2
12.5°	2345.9	2357.3	2370.5	2406.6	2482.1	2493.6	2620.0	2795.6	2994.3	3214.3	3386.6
15°	2345.9	2354.1	2362.3	2380.3	2441.1	2450.9	2562.5	2738.2	2961.5	3219.2	3442.4
17.5°	2370.5	2383.6	2377.0	2398.4	2462.4	2469.0	2567.5	2721.8	2959.8	3250.4	3527.8
20°	2429.6	2439.4	2426.3	2439.4	2503.4	2516.6	2618.4	2753.0	2987.7	3304.5	3634.5
22.5°	2523.1	2528.1	2496.9	2506.7	2572.4	2588.8	2707.0	2841.6	3055.0	3391.6	3777.3
25°	2641.3	2651.2	2603.6	2615.1	2677.5	2697.2	2833.4	2974.6	3161.7	3511.4	3959.5
27.5°	2777.6	2782.5	2741.5	2739.8	2820.3	2848.2	2986.1	3138.7	3304.5	3662.4	4189.4
30°	2933.5	2948.3	2908.9	2902.4	3004.1	3027.1	3163.4	3340.7	3514.7	3889.0	4516.0
32.5°	3056.7	3068.2	3045.2	3061.6	3165.0	3183.1	3378.4	3626.3	3844.6	4210.7	4960.9
35°	3234.0	3240.5	3188.0	3217.5	3335.7	3381.7	3672.3	4026.9	4260.0	4614.5	5542.1
37.5°	3875.8	3875.8	3652.6	3506.5	3619.7	3660.8	4074.5	4530.8	4772.1	5156.3	6274.2
40°	4763.9	4749.2	4422.5	4123.7	4108.9	4189.4	4647.4	5166.1	5433.7	5806.3	7098.3
42.5°	5711.1	5688.2	5243.3	4947.8	4898.5	4926.5	5308.9	5949.2	6221.7	6599.2	7984.8
45°	6551.6	6545.1	6138.0	5740.7	5652.0	5740.7	6134.7	6865.2	7060.5	7457.8	8869.6
47.5°	7255.9	7255.9	6958.8	6699.4	6653.4	6705.9	7252.6	7881.3	7863.3	8372.2	9731.4
50°	8066.8	8060.3	7777.9	7666.3	7713.9	7787.8	8539.6	8951.7	8693.9	9270.1	10501.3
52.5°	8634.8	8674.2	8577.4	8559.3	8802.3	8930.3	9846.3	9999.0	9437.6	10122.1	11077.5
55°	9084.6	9130.6	9242.2	9368.6	9836.5	10003.9	11112.0	10992.2	10059.7	10860.8	11409.1
57.5°	9721.6	9655.9	9828.3	10077.8	10834.6	11036.5	12338.3	11929.5	10560.4	11460.0	11445.3
60°	10494.8	10504.6	10534.2	10849.4	11831.0	12090.4	13546.5	12816.0	10882.2	11827.7	11044.7
62.5°	11423.9	11438.7	11499.4	11983.7	13168.9	13413.5	14833.5	13541.6	11029.9	11724.3	10010.5
65°	11359.9	11422.3	12100.3	13756.6	15202.9	15444.2	16335.6	14050.5	10806.7	10778.8	8150.6
67.5°	10348.7	10450.4	11584.8	15874.3	18269.4	18538.6	18151.2	14150.6	9843.1	8382.0	5317.2
70°	9022.3	9058.4	10422.5	17778.6	21820.2	22092.7	19776.4	13049.1	7469.3	4675.3	2382.0
72.5°	7045.8	7054.0	8654.5	18220.2	23747.4	23762.2	18500.9	9687.1	4017.0	1795.9	827.4
75°	5033.2	4983.9	5796.5	14776.1	20892.7	21060.1	13869.9	4544.0	1534.9	848.7	412.0
77.5°	2698.8	2753.0	3279.9	8762.9	14433.0	14718.6	7567.8	1310.0	781.4	577.8	272.5
80°	833.9	879.9	1344.5	4012.1	8175.2	8347.6	2805.5	582.8	545.0	412.0	178.9
82.5°	262.7	272.5	627.1	1685.9	3393.2	3472.0	812.6	330.0	372.6	272.5	105.1
85°	75.5	77.2	279.1	628.7	838.9	855.3	228.2	128.0	213.4	169.1	54.2
87.5°	8.2	26.3	105.1	105.1	73.9	72.2	24.6	27.9	60.7	21.3	9.8
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°	3247.1	3247.1	3247.1	3247.1	3247.1	3247.1	3247.1	3247.1	3247.1	3247.1	3247.1
2.5°	3253.7	3255.3	3234.0	3197.8	3158.4	3125.6	3084.6	3051.7	3028.8	3022.2	3033.7
5°	3276.6	3265.1	3204.4	3094.4	2963.1	2849.8	2723.4	2623.3	2557.6	2529.7	2539.6
7.5°	3311.1	3278.3	3145.3	2928.6	2677.5	2454.2	2227.7	2052.0	1940.4	1884.6	1892.8
10°	3340.7	3275.0	3046.8	2688.9	2304.8	1966.6	1661.3	1449.5	1331.3	1275.5	1277.2
12.5°	3368.6	3273.4	2918.8	2404.9	1884.6	1470.9	1186.9	1081.8	1049.0	1037.5	1034.2
15°	3421.1	3278.3	2757.9	2079.9	1466.0	1111.4	1007.9	1006.3	1012.9	1009.6	1007.9
17.5°	3493.3	3283.2	2575.7	1735.2	1131.1	980.0	975.1	989.9	999.7	994.8	993.2
20°	3586.9	3302.9	2382.0	1393.7	971.8	947.2	958.7	971.8	980.0	971.8	970.2
22.5°	3718.2	3337.4	2170.2	1119.6	920.9	927.5	937.4	952.1	960.3	948.8	947.2
25°	3879.1	3391.6	1961.7	973.5	896.3	904.5	919.3	935.7	945.6	934.1	932.4
27.5°	4087.6	3478.6	1769.6	940.6	871.7	876.6	898.0	922.6	935.7	920.9	920.9
30°	4389.6	3621.4	1603.8	955.4	856.9	845.4	875.0	909.4	924.2	911.1	909.4
32.5°	4790.2	3823.3	1502.1	978.4	850.4	809.3	837.2	881.5	906.2	898.0	898.0
35°	5315.5	4130.3	1462.7	1004.7	845.4	771.6	791.3	838.9	881.5	889.7	889.7
37.5°	5952.5	4557.1	1474.2	1016.2	830.7	740.4	750.2	791.3	847.1	873.3	879.9
40°	6676.4	5054.5	1539.8	1004.7	814.2	714.1	715.7	746.9	796.2	835.6	848.7
42.5°	7423.3	5635.6	1661.3	962.0	799.5	691.1	686.2	707.5	740.4	768.3	779.8
45°	8134.1	6233.2	1781.1	902.9	781.4	668.1	656.6	664.8	671.4	682.9	689.5
47.5°	8754.7	6653.4	1746.7	848.7	756.8	641.9	622.2	618.9	599.2	597.5	595.9
50°	9183.1	6745.3	1551.3	794.5	720.7	612.3	581.1	561.4	527.0	510.5	512.2
52.5°	9319.4	6382.6	1267.3	740.4	661.6	572.9	528.6	497.4	454.7	439.9	438.3
55°	9138.8	5671.7	1012.9	674.7	579.5	520.4	471.1	430.1	395.6	377.6	377.6
57.5°	8697.2	4767.2	801.1	597.5	492.5	461.3	412.0	371.0	341.5	323.4	320.1
60°	7965.1	3785.5	633.7	505.6	420.3	397.3	346.4	320.1	293.8	272.5	267.6
62.5°	6853.7	2702.1	497.4	400.6	351.3	325.0	295.5	275.8	244.6	215.0	210.1
65°	5348.3	1653.1	384.1	293.8	282.4	269.2	251.2	233.1	195.4	165.8	160.9
67.5°	3373.5	783.0	274.1	221.6	223.3	216.7	208.5	193.7	165.8	139.5	136.3
70°	1485.7	379.2	180.6	169.1	165.8	165.8	172.4	167.4	141.2	116.6	111.6
72.5°	505.6	203.6	134.6	128.0	119.8	118.2	144.5	139.5	113.3	90.3	85.4
75°	264.3	136.3	98.5	91.9	72.2	87.0	114.9	108.3	80.4	59.1	54.2
77.5°	172.4	96.9	67.3	59.1	41.0	57.5	85.4	75.5	47.6	29.5	26.3
80°	108.3	64.0	39.4	27.9	19.7	31.2	46.0	32.8	18.1	6.6	4.9
82.5°	57.5	32.8	14.8	9.8	8.2	9.8	11.5	8.2	3.3	0.0	0.0
85°	23.0	11.5	4.9	3.3	1.6	0.0	3.3	1.6	0.0	0.0	0.0
87.5°	8.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)