

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: P943478

Luminaire Tested: **GALN-SB8A-722-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943478
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-SB8A-722-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 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: 22687 lumens
Efficiency: N/A
Efficacy: 99.9 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): 227.1
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



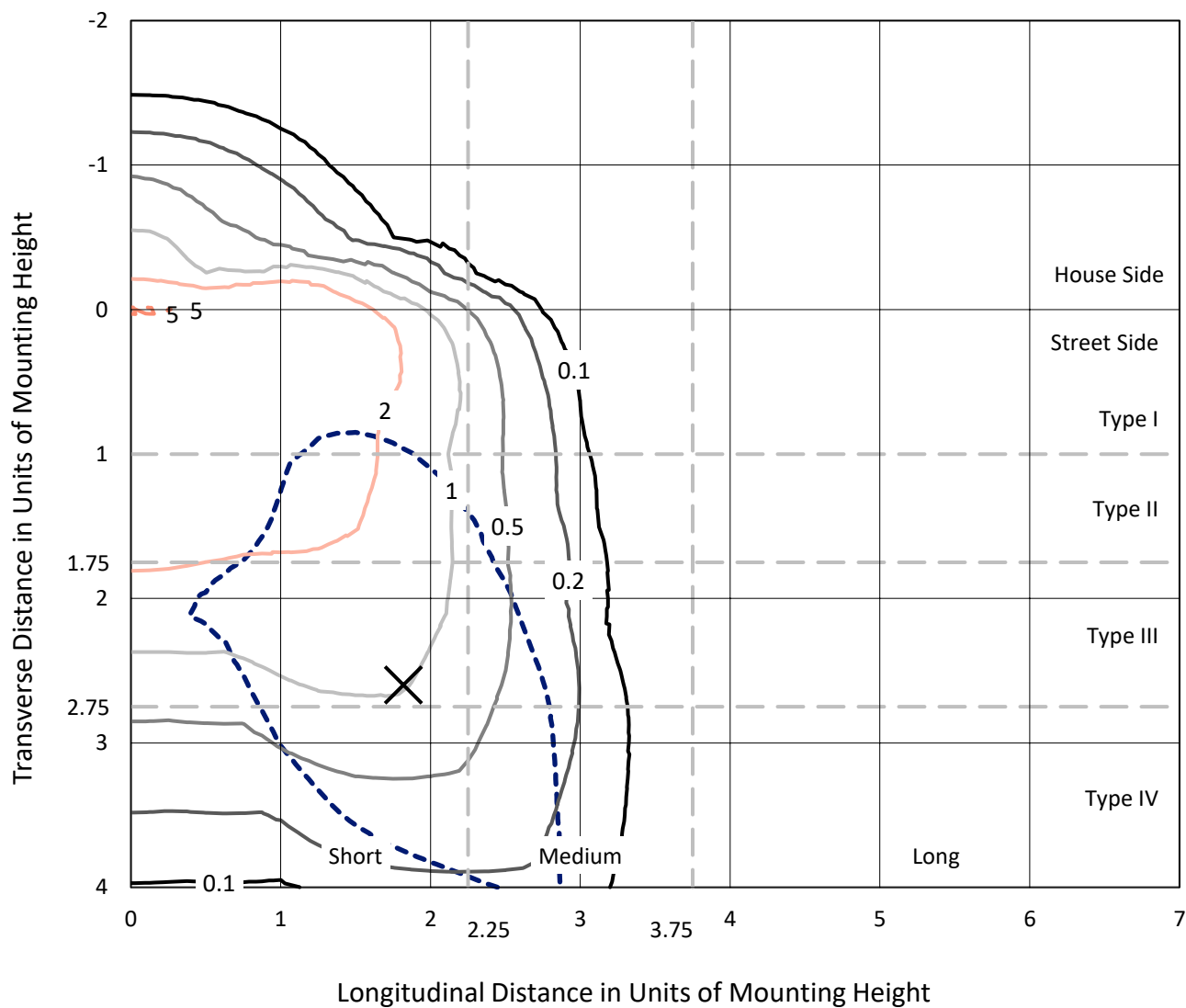
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

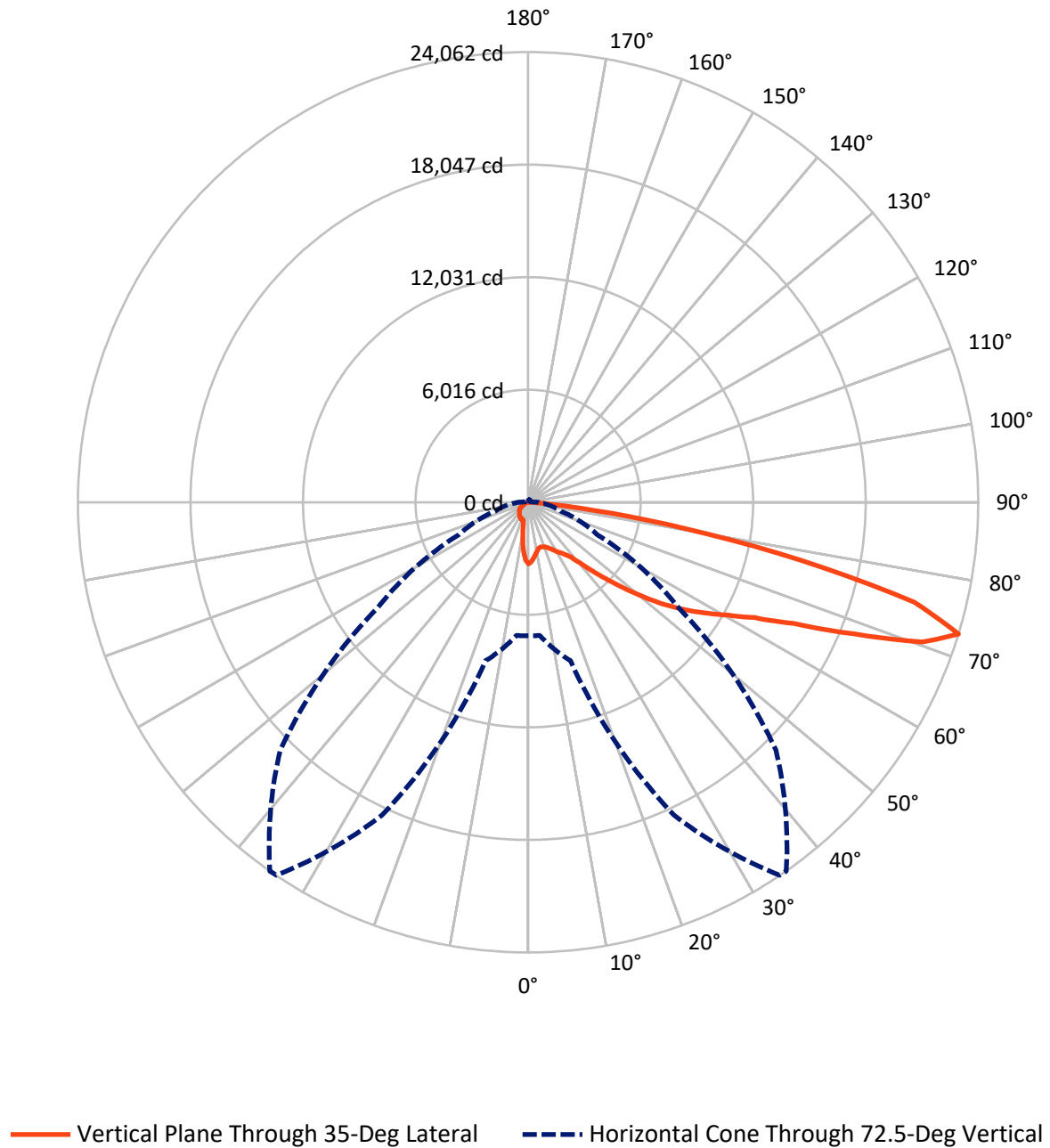


Based on 25 foot mounting height. Maximum calculated value = 5.3 fc

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	2553.3	0.0	2553.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	20133.7	0.0	20133.7
	% Fixture	88.7	0.0	88.7
Total	Lumens	22687.0	0.0	22687.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.2	1.2
10°-20°	632.1	2.8
20°-30°	1026.8	4.5
30°-40°	1713.2	7.6
40°-50°	3241.5	14.3
50°-60°	5150.7	22.7
60°-70°	6371.7	28.1
70°-80°	3960.7	17.5
80°-90°	320.1	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°	22687.0	100.0
0°-180°	22687.0	100.0

Coefficient of Utilization



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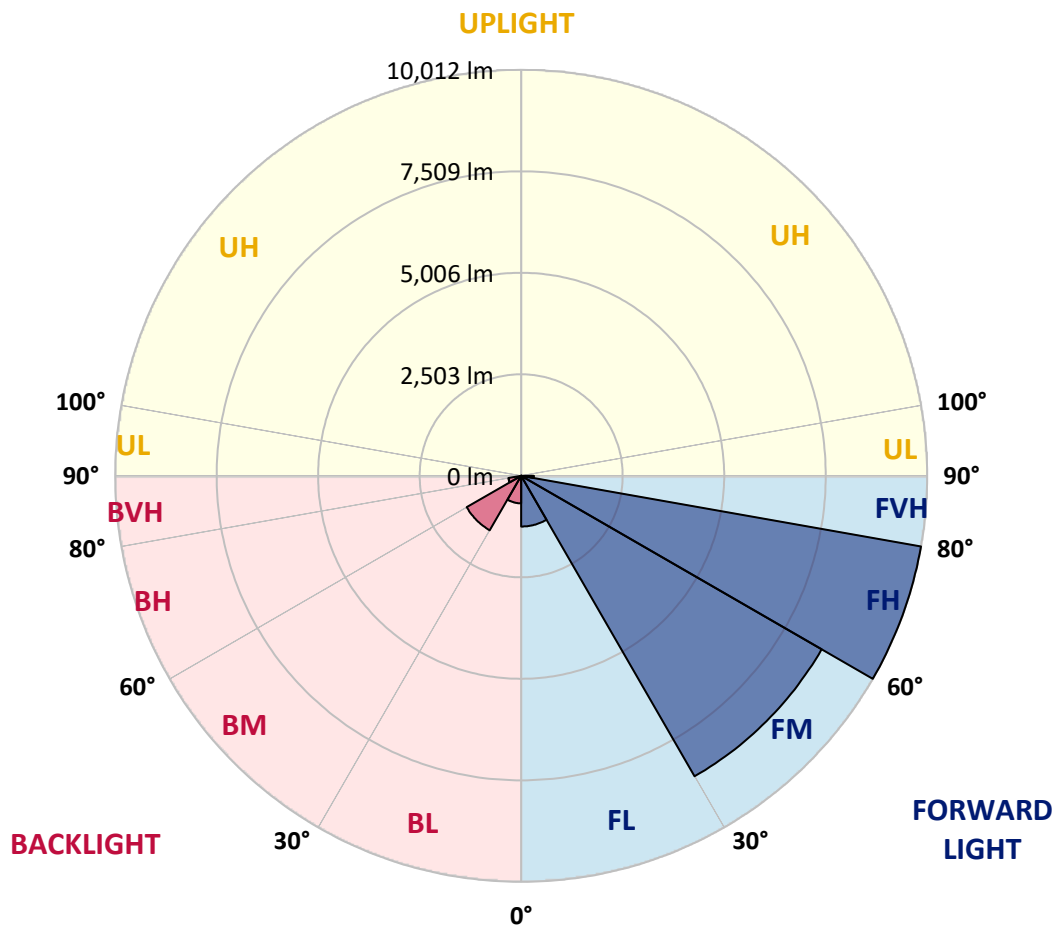
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1250.6	5.5			
FM	(30°-60°)	8555.3	37.7			
FH	(60°-80°)	10012.1	44.1			G4/12000
FVH	(80°-90°)	315.7	1.4			G3/500
BL	(0°-30°)	678.5	3.0	B2/1000		
BM	(30°-60°)	1550.1	6.8	B2/2500		
BH	(60°-80°)	320.4	1.4	B1/500		G1/500
BVH	(80°-90°)	4.4	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°	3288.1	3288.1	3288.1	3288.1	3288.1	3288.1	3288.1	3288.1	3288.1	3288.1	3288.1
2.5°	3141.8	3168.4	3173.4	3181.7	3181.7	3191.7	3208.3	3231.6	3269.8	3289.8	3303.1
5°	2895.8	2915.7	2940.7	2960.6	2998.9	3003.8	3068.7	3131.8	3220.0	3286.4	3333.0
7.5°	2648.1	2671.4	2704.6	2752.8	2802.7	2817.7	2915.7	3022.1	3161.8	3286.4	3364.6
10°	2473.6	2475.2	2505.1	2553.4	2633.1	2651.4	2771.1	2922.4	3096.9	3266.5	3394.5
12.5°	2375.5	2387.1	2400.4	2437.0	2513.5	2525.1	2653.1	2831.0	3032.1	3254.9	3429.4
15°	2375.5	2383.8	2392.1	2410.4	2471.9	2481.9	2594.9	2772.8	2998.9	3259.8	3485.9
17.5°	2400.4	2413.7	2407.1	2428.7	2493.5	2500.2	2599.9	2756.2	2997.2	3291.4	3572.4
20°	2460.3	2470.2	2456.9	2470.2	2535.1	2548.4	2651.4	2787.7	3025.5	3346.3	3680.4
22.5°	2555.0	2560.0	2528.4	2538.4	2604.9	2621.5	2741.2	2877.5	3093.6	3434.4	3825.0
25°	2674.7	2684.7	2636.5	2648.1	2711.3	2731.2	2869.2	3012.2	3201.7	3555.7	4009.6
27.5°	2812.7	2817.7	2776.1	2774.4	2855.9	2884.2	3023.8	3178.4	3346.3	3708.7	4242.3
30°	2970.6	2985.6	2945.7	2939.0	3042.1	3065.4	3203.3	3382.9	3559.1	3938.1	4573.1
32.5°	3095.3	3106.9	3083.6	3100.3	3205.0	3223.3	3421.1	3672.1	3893.2	4263.9	5023.6
35°	3274.8	3281.5	3228.3	3258.2	3377.9	3424.4	3718.7	4077.7	4313.8	4672.8	5612.1
37.5°	3924.8	3924.8	3698.7	3550.8	3665.5	3707.0	4125.9	4588.1	4832.4	5221.4	6353.5
40°	4824.1	4809.1	4478.3	4175.8	4160.8	4242.3	4706.1	5231.4	5502.3	5879.7	7188.0
42.5°	5783.3	5760.0	5309.5	5010.3	4960.4	4988.7	5376.0	6024.3	6300.3	6682.6	8085.6
45°	6634.4	6627.7	6215.5	5813.2	5723.4	5813.2	6212.2	6951.9	7149.7	7552.0	8981.6
47.5°	7347.5	7347.5	7046.7	6784.0	6737.5	6790.7	7344.2	7980.9	7962.6	8477.9	9854.3
50°	8168.7	8162.1	7876.2	7763.1	7811.3	7886.1	8647.5	9064.7	8803.7	9387.2	10634.0
52.5°	8743.9	8783.8	8685.7	8667.4	8913.5	9043.1	9970.7	10125.3	9556.8	10250.0	11217.5
55°	9199.4	9245.9	9359.0	9487.0	9960.7	10130.3	11252.4	11131.0	10186.8	10998.0	11553.3
57.5°	9844.4	9777.9	9952.4	10205.1	10971.4	11175.9	12494.1	12080.2	10693.8	11604.8	11589.8
60°	10627.3	10637.3	10667.2	10986.4	11980.5	12243.1	13717.6	12977.9	11019.6	11977.2	11184.2
62.5°	11568.2	11583.2	11644.7	12135.1	13335.3	13583.0	15020.9	13712.6	11169.3	11872.4	10136.9
65°	11503.4	11566.6	12253.1	13930.4	15394.9	15639.3	16541.9	14228.0	10943.2	10914.9	8253.5
67.5°	10479.4	10582.5	11731.1	16074.8	18500.2	18772.8	18380.5	14329.4	9967.4	8487.9	5384.3
70°	9136.2	9172.8	10554.2	18003.1	22095.8	22371.8	20026.2	13213.9	7563.6	4734.3	2412.1
72.5°	7134.8	7143.1	8763.9	18450.3	24047.4	24062.4	18734.6	9809.5	4067.7	1818.6	837.8
75°	5096.7	5046.9	5869.7	14962.7	21156.6	21326.1	14045.1	4601.4	1554.3	859.4	417.2
77.5°	2732.9	2787.7	3321.4	8873.6	14615.3	14904.5	7663.4	1326.5	791.3	585.1	275.9
80°	844.5	891.0	1361.5	4062.8	8278.4	8453.0	2840.9	590.1	551.9	417.2	181.2
82.5°	266.0	275.9	635.0	1707.2	3436.1	3515.8	822.9	334.1	377.4	275.9	106.4
85°	76.5	78.1	282.6	636.7	849.5	866.1	231.1	129.7	216.1	171.2	54.9
87.5°	8.3	26.6	106.4	106.4	74.8	73.1	24.9	28.3	61.5	21.6	10.0
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°	3288.1	3288.1	3288.1	3288.1	3288.1	3288.1	3288.1	3288.1	3288.1	3288.1	3288.1
2.5°	3294.8	3296.4	3274.8	3238.2	3198.3	3165.1	3123.5	3090.3	3067.0	3060.4	3072.0
5°	3318.0	3306.4	3244.9	3133.5	3000.5	2885.8	2757.8	2656.4	2589.9	2561.7	2571.6
7.5°	3352.9	3319.7	3185.0	2965.6	2711.3	2485.2	2255.8	2077.9	1964.9	1908.4	1916.7
10°	3382.9	3316.4	3085.3	2722.9	2333.9	1991.5	1682.3	1467.8	1348.2	1291.6	1293.3
12.5°	3411.1	3314.7	2955.6	2435.3	1908.4	1489.5	1201.9	1095.5	1062.2	1050.6	1047.3
15°	3464.3	3319.7	2792.7	2106.2	1484.5	1125.4	1020.7	1019.0	1025.7	1022.3	1020.7
17.5°	3537.5	3324.7	2608.2	1757.1	1145.4	992.4	987.4	1002.4	1012.4	1007.4	1005.7
20°	3632.2	3344.6	2412.1	1411.3	984.1	959.2	970.8	984.1	992.4	984.1	982.4
22.5°	3765.2	3379.5	2197.6	1133.7	932.6	939.2	949.2	964.2	972.5	960.8	959.2
25°	3928.1	3434.4	1986.5	985.8	907.6	915.9	930.9	947.5	957.5	945.9	944.2
27.5°	4139.2	3522.5	1792.0	952.5	882.7	887.7	909.3	934.2	947.5	932.6	932.6
30°	4445.1	3667.1	1624.1	967.5	867.7	856.1	886.0	920.9	935.9	922.6	920.9
32.5°	4850.7	3871.6	1521.0	990.8	861.1	819.5	847.8	892.7	917.6	909.3	909.3
35°	5382.7	4182.4	1481.1	1017.4	856.1	781.3	801.2	849.5	892.7	901.0	901.0
37.5°	6027.6	4614.7	1492.8	1029.0	841.1	749.7	759.7	801.2	857.8	884.4	891.0
40°	6760.7	5118.3	1559.3	1017.4	824.5	723.1	724.8	756.4	806.2	846.1	859.4
42.5°	7517.1	5706.8	1682.3	974.1	809.6	699.8	694.9	716.5	749.7	778.0	789.6
45°	8236.9	6311.9	1803.6	914.3	791.3	676.6	664.9	673.2	679.9	691.5	698.2
47.5°	8865.3	6737.5	1768.7	859.4	766.3	650.0	630.0	626.7	606.8	605.1	603.4
50°	9299.1	6830.6	1570.9	804.6	729.8	620.1	588.5	568.5	533.6	517.0	518.6
52.5°	9437.1	6463.2	1283.3	749.7	669.9	580.2	535.3	503.7	460.5	445.5	443.8
55°	9254.2	5743.4	1025.7	683.2	586.8	527.0	477.1	435.5	400.6	382.3	382.3
57.5°	8807.1	4827.4	811.2	605.1	498.7	467.1	417.2	375.7	345.8	327.5	324.2
60°	8065.7	3833.4	641.7	512.0	425.6	402.3	350.8	324.2	297.6	275.9	271.0
62.5°	6940.3	2736.2	503.7	405.6	355.7	329.1	299.2	279.3	247.7	217.8	212.8
65°	5415.9	1674.0	389.0	297.6	285.9	272.6	254.3	236.1	197.8	167.9	162.9
67.5°	3416.1	792.9	277.6	224.4	226.1	219.4	211.1	196.2	167.9	141.3	138.0
70°	1504.4	384.0	182.9	171.2	167.9	167.9	174.5	169.6	143.0	118.0	113.0
72.5°	512.0	206.1	136.3	129.7	121.4	119.7	146.3	141.3	114.7	91.4	86.4
75°	267.6	138.0	99.7	93.1	73.1	88.1	116.4	109.7	81.5	59.8	54.9
77.5°	174.5	98.1	68.2	59.8	41.6	58.2	86.4	76.5	48.2	29.9	26.6
80°	109.7	64.8	39.9	28.3	19.9	31.6	46.5	33.2	18.3	6.6	5.0
82.5°	58.2	33.2	15.0	10.0	8.3	10.0	11.6	8.3	3.3	0.0	0.0
85°	23.3	11.6	5.0	3.3	1.7	0.0	3.3	1.7	0.0	0.0	0.0
87.5°	8.3	1.7	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)