

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: P954845

Luminaire Tested: **GALN-SB8A-722-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954845  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
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-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

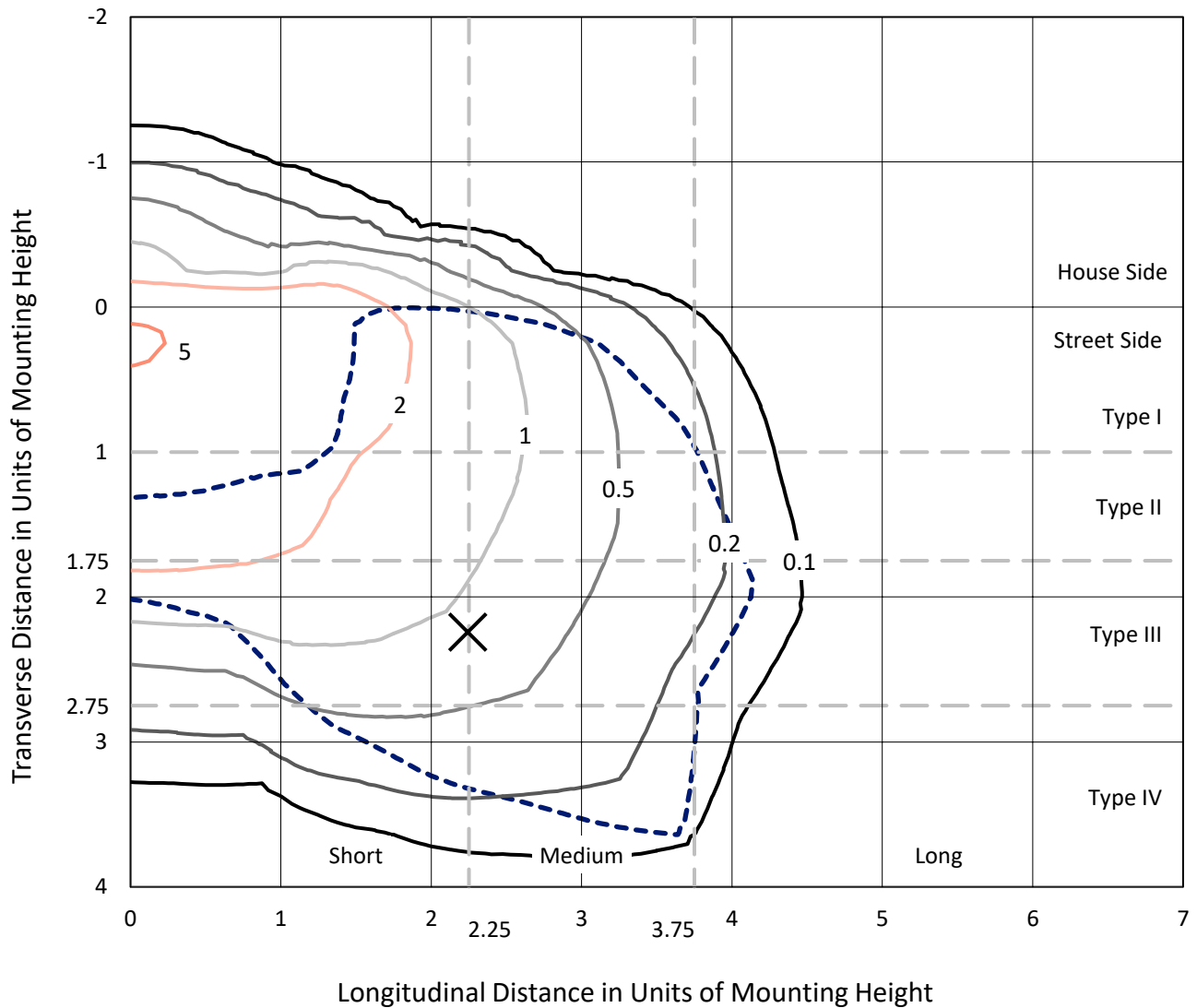
Lumens per Lamp: N/A  
Luminaire Lumens: 23081 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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

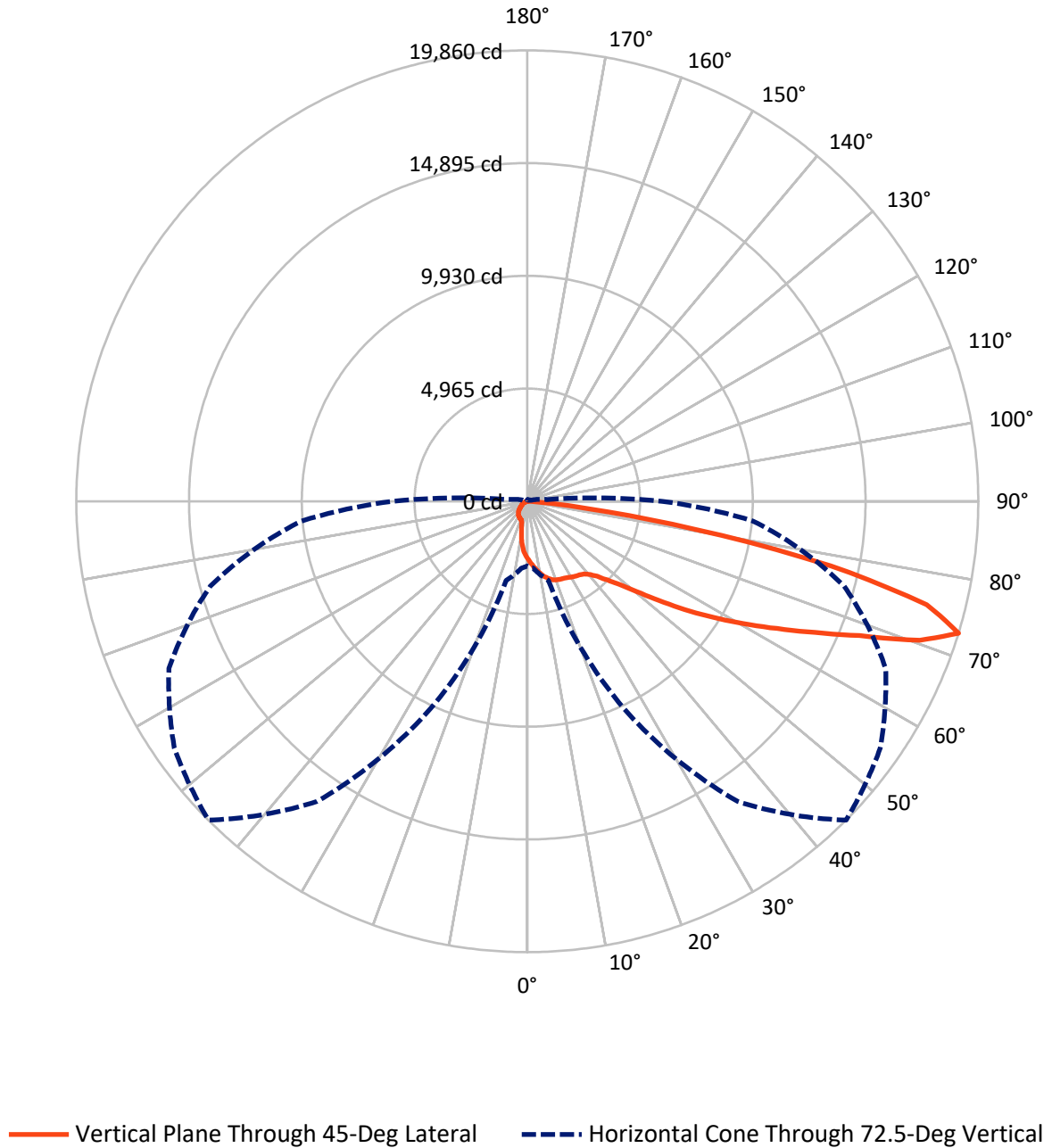
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2425.2	0.0	2425.2
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	20655.8	0.0	20655.8
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	23081.0	0.0	23081.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.2	1.0
10°-20°	696.3	3.0
20°-30°	1143.4	5.0
30°-40°	1621.6	7.0
40°-50°	2680.4	11.6
50°-60°	4815.0	20.9
60°-70°	6685.8	29.0
70°-80°	4849.7	21.0
80°-90°	350.6	1.5
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°	23081.0	100.0
0°-180°	23081.0	100.0

**Coefficient of Utilization**



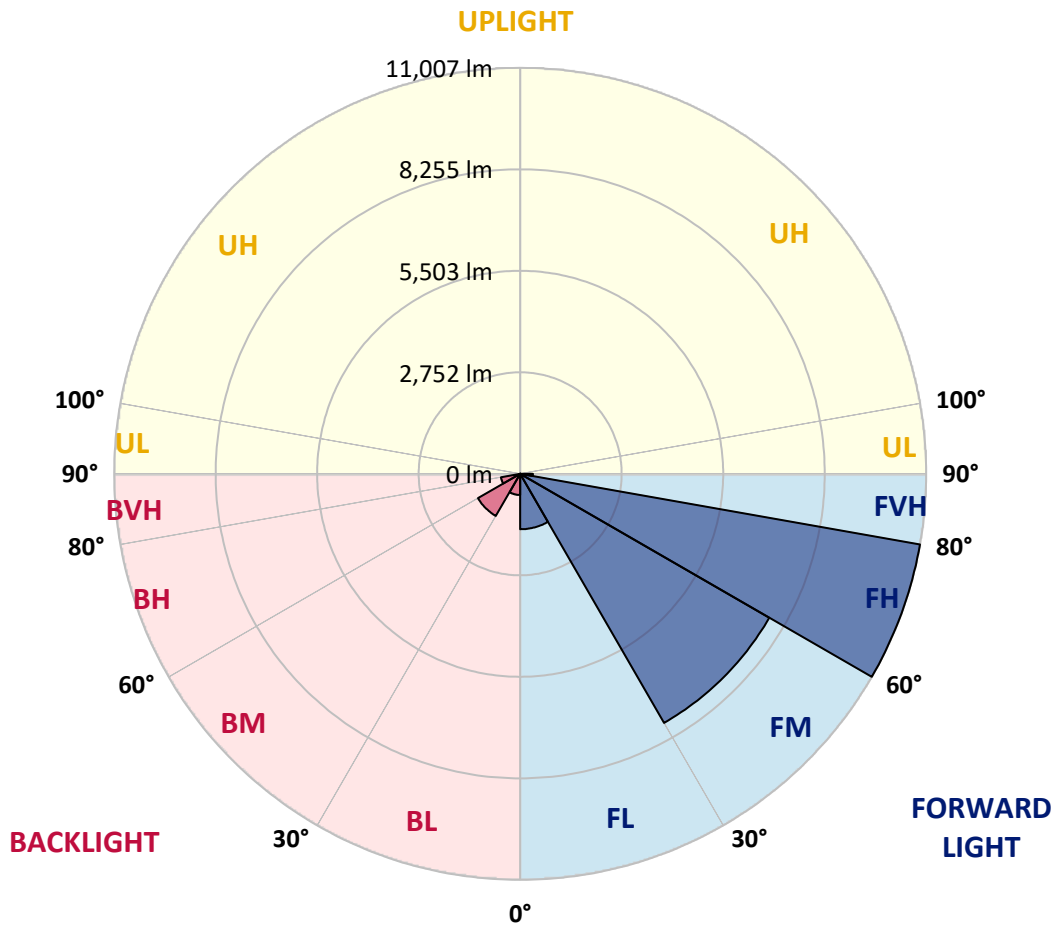
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1503.5	6.5			
FM (30°-60°)	7798.0	33.8			
FH (60°-80°)	11006.7	47.7			G4/12000
FVH (80°-90°)	347.7	1.5			G3/500
BL (0°-30°)	574.4	2.5	B2/1000		
BM (30°-60°)	1318.9	5.7	B2/2500		
BH (60°-80°)	528.9	2.3	B2/1000		G2/1000
BVH (80°-90°)	2.9	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°	35°	45°	46°	55°	65°	75°	85°
0°	2528.6	2528.6	2528.6	2528.6	2528.6	2528.6	2528.6	2528.6	2528.6	2528.6	2528.6
2.5°	2761.7	2766.5	2763.3	2744.4	2712.9	2695.6	2686.1	2654.6	2634.1	2597.9	2560.1
5°	3015.4	3034.3	3023.3	2985.4	2925.6	2883.0	2870.4	2805.8	2747.6	2679.8	2601.0
7.5°	3284.8	3294.2	3273.8	3224.9	3144.6	3072.1	3061.1	2971.3	2878.3	2774.3	2667.2
10°	3517.9	3529.0	3497.5	3426.6	3335.2	3245.4	3229.6	3130.4	3020.1	2892.5	2755.4
12.5°	3713.3	3724.3	3683.4	3598.3	3497.5	3404.5	3388.8	3284.8	3163.5	3021.7	2851.5
15°	3861.4	3881.9	3826.7	3735.4	3626.7	3533.7	3525.8	3423.4	3305.3	3147.7	2966.5
17.5°	3948.0	3968.5	3916.5	3806.3	3713.3	3634.5	3625.1	3540.0	3429.7	3278.5	3078.4
20°	3962.2	3981.1	3926.0	3829.9	3752.7	3689.7	3684.9	3623.5	3543.2	3398.2	3199.7
22.5°	3919.7	3943.3	3892.9	3815.7	3762.1	3729.1	3722.8	3688.1	3642.4	3519.5	3313.1
25°	3875.6	3894.5	3856.7	3788.9	3760.6	3757.4	3762.1	3755.8	3746.4	3642.4	3445.5
27.5°	3872.4	3892.9	3850.4	3785.8	3770.0	3803.1	3807.8	3837.8	3845.6	3754.3	3573.1
30°	3899.2	3913.4	3872.4	3804.7	3796.8	3872.4	3874.0	3927.6	3940.2	3848.8	3699.1
32.5°	3957.5	3973.2	3932.3	3833.0	3822.0	3927.6	3932.3	4003.2	4023.7	3949.6	3831.5
35°	4094.6	4113.5	4066.2	3911.8	3872.4	3979.5	3993.7	4077.2	4118.2	4056.7	3968.5
37.5°	4436.4	4381.3	4316.7	4070.9	3987.4	4061.5	4085.1	4182.8	4255.2	4184.4	4132.4
40°	5285.6	5112.3	4910.6	4341.9	4189.1	4236.3	4255.2	4352.9	4452.2	4382.9	4357.7
42.5°	6560.1	6355.3	6030.8	4965.8	4493.1	4516.8	4531.0	4616.0	4756.2	4701.1	4707.4
45°	7696.0	7622.0	7291.1	6030.8	5061.9	4945.3	4962.6	5006.7	5213.1	5192.6	5233.6
47.5°	8568.8	8526.3	8271.0	7253.3	6022.9	5469.9	5518.7	5539.2	5837.0	5909.5	6019.7
50°	9239.9	9224.2	8995.7	8340.4	7278.5	6243.4	6260.8	6216.7	6662.5	6842.1	7051.6
52.5°	9873.2	9926.8	9758.2	9350.2	8619.2	7256.5	7253.3	7045.3	7647.2	7918.1	8275.8
55°	10445.1	10464.0	10481.4	10380.5	9967.8	8409.7	8379.7	8039.4	8789.4	9069.8	9457.3
57.5°	10982.4	10990.2	11144.6	11351.0	11371.5	9648.0	9592.8	9184.8	10037.1	10237.2	10475.1
60°	11343.1	11379.4	11705.5	12278.9	12529.4	10925.6	10895.7	10479.8	11306.9	11399.8	11355.7
62.5°	10823.2	11043.8	11866.2	13003.6	13622.8	12342.0	12327.8	11937.1	12642.9	12567.2	12189.1
65°	8761.0	9134.4	10580.6	13493.6	14695.7	13923.7	13944.2	13528.3	14015.1	13769.3	12866.6
67.5°	6128.4	6522.3	8233.2	13533.0	15894.6	15781.1	15899.3	15247.1	15472.3	14920.9	13027.3
70°	4237.9	4441.2	5555.0	12685.4	16828.8	18339.6	18336.5	17358.1	16921.7	15445.6	12208.0
72.5°	2850.0	2955.5	3607.7	10063.9	16141.9	19859.9	19768.6	18971.4	17410.1	14445.2	9974.1
75°	1202.1	1279.3	1670.0	5655.8	12770.5	18169.5	17922.1	16765.8	15469.2	11374.6	6223.0
77.5°	381.3	414.3	658.5	2024.4	7034.3	13657.4	13395.9	10470.3	10367.9	5706.2	2274.9
80°	181.2	211.1	370.2	812.9	2768.0	7428.2	7391.9	4749.9	4460.1	1540.8	456.9
82.5°	78.8	93.0	204.8	434.8	1238.3	2649.9	2703.4	1616.4	1337.5	584.5	140.2
85°	25.2	33.1	94.5	200.1	523.0	658.5	650.7	384.4	538.8	318.2	48.8
87.5°	0.0	0.0	31.5	45.7	53.6	37.8	42.5	33.1	149.7	88.2	17.3
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°	2528.6	2528.6	2528.6	2528.6	2528.6	2528.6	2528.6	2528.6	2528.6	2528.6	2528.6
2.5°	2541.2	2516.0	2471.9	2430.9	2394.7	2358.4	2336.4	2304.9	2301.7	2301.7	2309.6
5°	2558.5	2517.5	2438.8	2355.3	2259.2	2167.8	2076.4	1988.2	1959.8	1939.4	1948.8
7.5°	2608.9	2544.3	2419.9	2260.7	2078.0	1877.9	1737.7	1586.5	1528.2	1496.7	1501.4
10°	2681.4	2593.2	2404.1	2125.3	1829.1	1556.5	1356.4	1192.6	1129.6	1102.8	1102.8
12.5°	2761.7	2653.0	2375.8	1956.7	1556.5	1230.4	1035.1	959.4	950.0	950.0	950.0
15°	2857.8	2725.5	2326.9	1758.2	1271.4	973.6	904.3	907.5	916.9	923.2	923.2
17.5°	2957.1	2802.7	2249.7	1536.0	1019.3	875.9	877.5	882.2	890.1	896.4	896.4
20°	3064.2	2879.9	2147.3	1299.7	874.4	847.6	852.3	857.0	863.3	866.5	868.1
22.5°	3179.2	2952.4	2026.0	1068.1	825.5	824.0	825.5	830.3	838.1	838.1	841.3
25°	3302.1	3032.7	1887.4	899.6	800.3	800.3	803.5	806.6	812.9	812.9	814.5
27.5°	3428.1	3106.8	1740.9	811.3	778.3	776.7	776.7	781.4	784.6	786.1	787.7
30°	3566.8	3193.4	1594.3	792.4	760.9	753.1	748.3	751.5	754.6	756.2	759.4
32.5°	3708.6	3276.9	1463.6	800.3	743.6	729.4	713.7	710.5	710.5	716.8	721.5
35°	3866.1	3368.3	1362.8	827.1	734.2	694.8	669.6	655.4	657.0	666.4	671.1
37.5°	4055.2	3478.6	1288.7	850.7	727.9	655.4	614.4	597.1	586.1	597.1	593.9
40°	4302.5	3640.8	1235.1	869.6	720.0	609.7	554.6	526.2	505.7	512.0	508.9
42.5°	4666.4	3896.0	1214.7	871.2	702.6	556.1	493.1	455.3	425.4	426.9	420.6
45°	5176.9	4299.4	1320.2	850.7	664.8	497.8	428.5	378.1	359.2	354.5	348.2
47.5°	5876.4	4887.0	1564.4	808.2	609.7	441.1	365.5	323.0	308.8	300.9	296.2
50°	6813.8	5641.6	1835.4	760.9	554.6	387.6	313.5	286.7	277.3	269.4	267.8
52.5°	7900.8	6407.3	2057.5	713.7	499.4	340.3	280.4	264.7	256.8	250.5	248.9
55°	8898.1	6935.1	2044.9	663.3	445.8	302.5	256.8	247.3	237.9	231.6	228.4
57.5°	9518.8	7009.1	1685.7	608.1	384.4	272.6	234.7	228.4	217.4	209.5	208.0
60°	9803.9	6586.9	1181.6	535.6	323.0	244.2	211.1	208.0	193.8	182.8	179.6
62.5°	9855.9	5802.3	787.7	445.8	269.4	217.4	187.5	182.8	163.8	144.9	135.5
65°	9644.8	4680.6	545.1	348.2	230.0	189.1	160.7	151.2	130.8	111.9	105.6
67.5°	8976.8	3286.4	379.7	250.5	195.4	149.7	127.6	124.5	108.7	93.0	88.2
70°	7752.7	1873.2	253.6	187.5	154.4	102.4	100.8	104.0	88.2	75.6	69.3
72.5°	5944.1	857.0	157.5	137.1	105.6	69.3	80.3	81.9	67.7	56.7	50.4
75°	3499.0	367.1	99.3	88.2	53.6	45.7	58.3	59.9	45.7	36.2	31.5
77.5°	1191.0	138.6	63.0	52.0	26.8	25.2	37.8	37.8	25.2	14.2	11.0
80°	271.0	52.0	31.5	20.5	12.6	11.0	12.6	11.0	6.3	1.6	0.0
82.5°	77.2	20.5	12.6	7.9	4.7	4.7	1.6	0.0	0.0	0.0	0.0
85°	22.1	9.5	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.5	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)