

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: P941099

Luminaire Tested: **GALN-SB4C-722-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941099
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-722-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24506 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 200.7
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

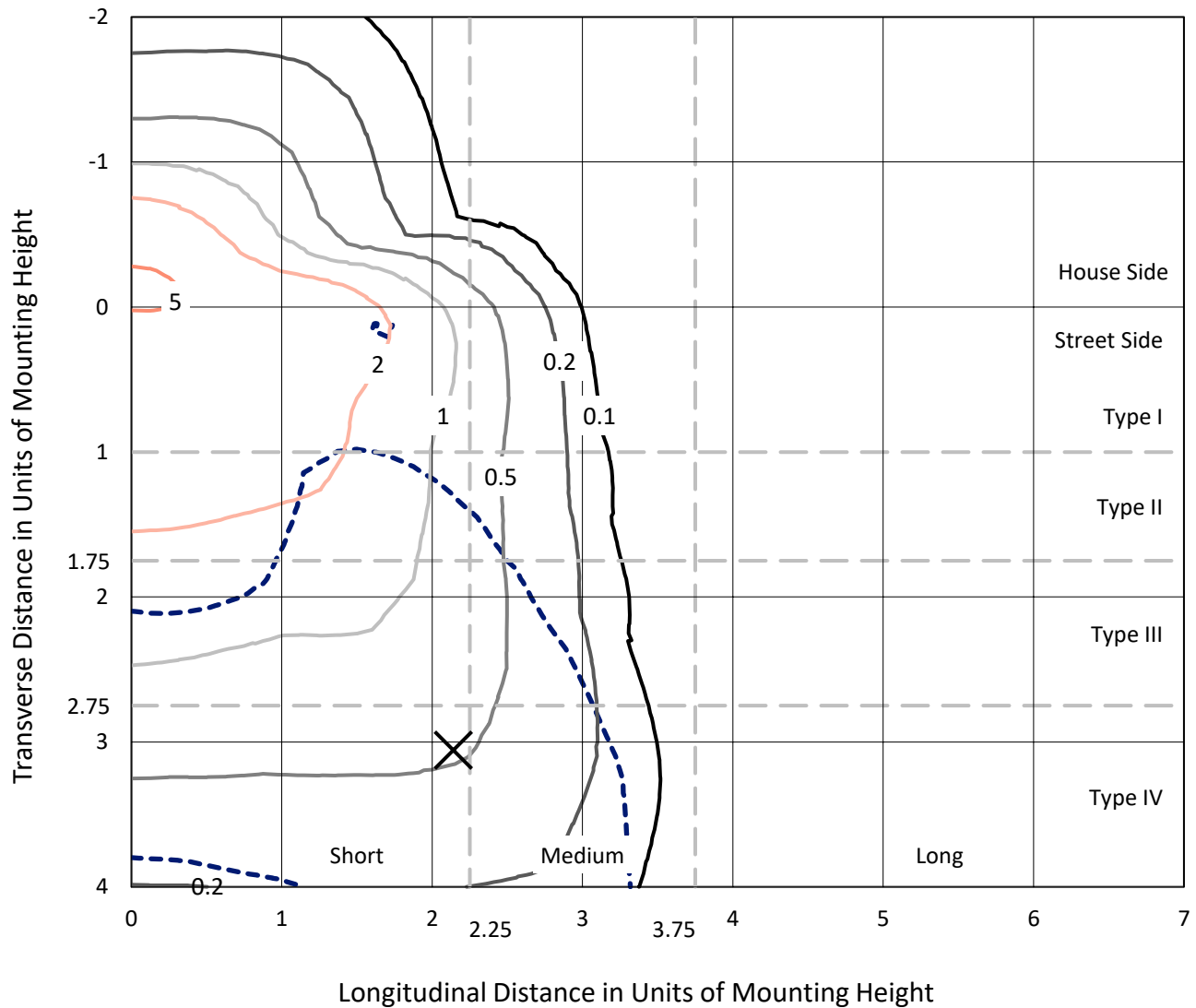


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

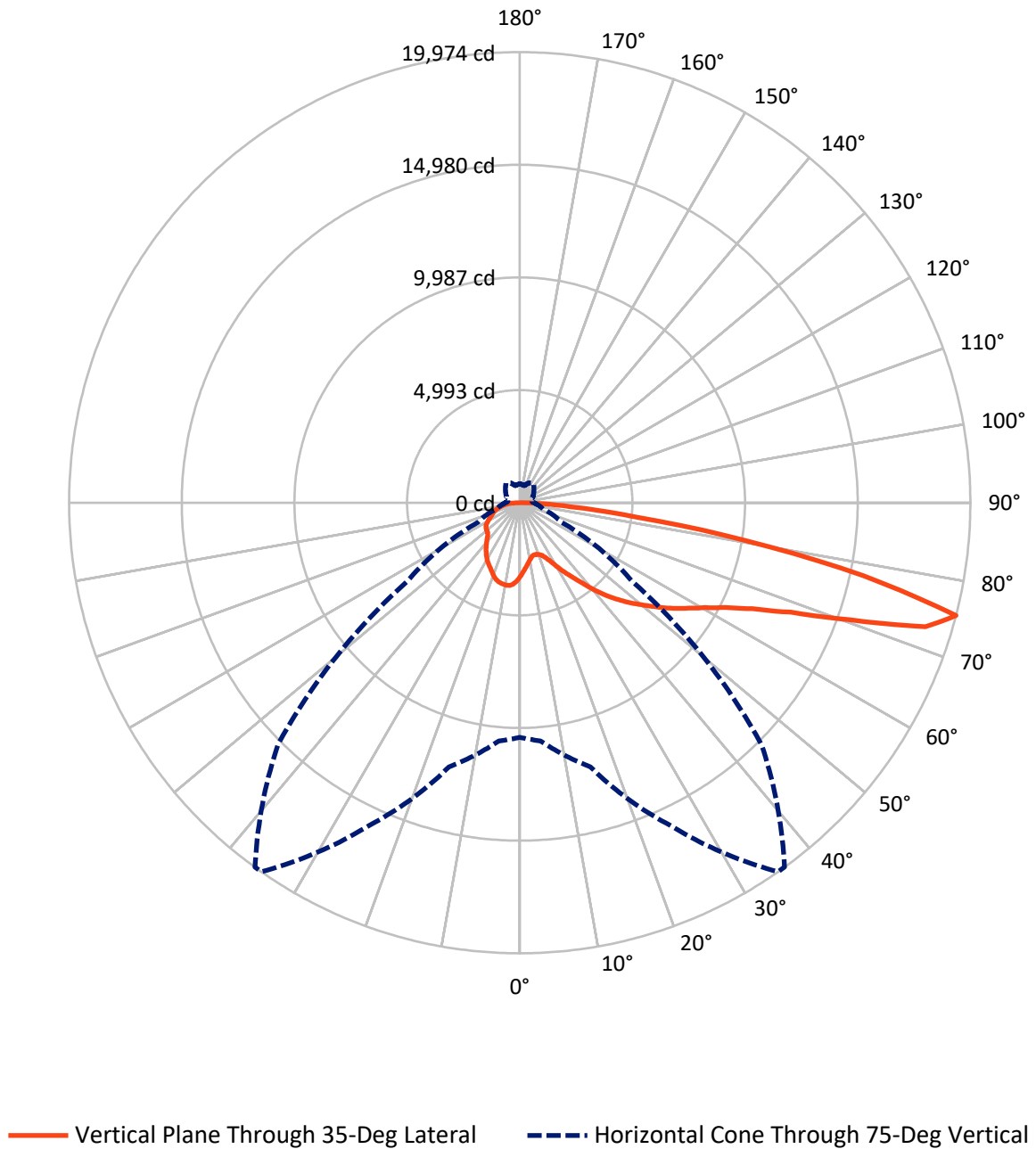


Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5831.8	0.0	5831.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	18674.2	0.0	18674.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	24506.0	0.0	24506.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.2	1.3
10°-20°	891.8	3.6
20°-30°	1497.6	6.1
30°-40°	2327.5	9.5
40°-50°	3454.6	14.1
50°-60°	4769.3	19.5
60°-70°	5786.3	23.6
70°-80°	4781.9	19.5
80°-90°	687.8	2.8
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°	24506.0	100.0
0°-180°	24506.0	100.0

Coefficient of Utilization



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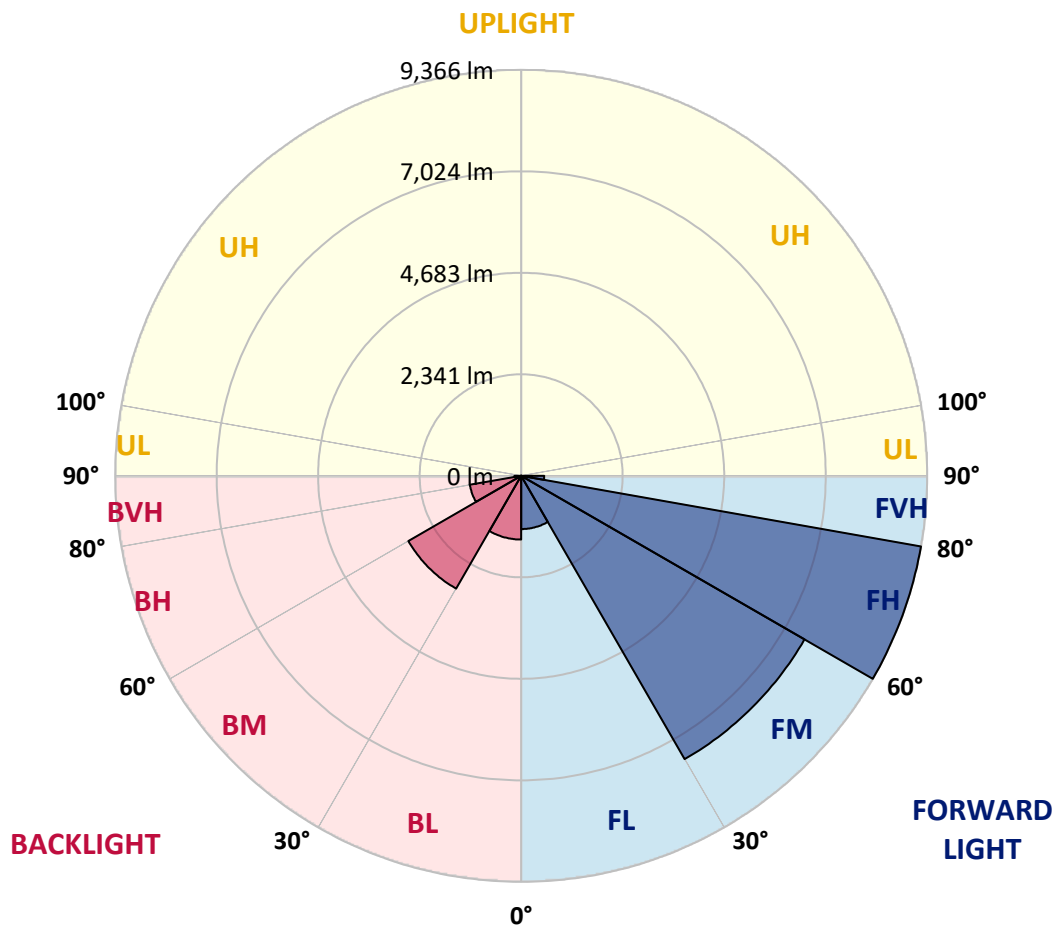
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1228.9	5.0			
FM	(30°-60°)	7546.5	30.8			
FH	(60°-80°)	9365.8	38.2			G4/12000
FVH	(80°-90°)	532.9	2.2			G4/750
BL	(0°-30°)	1469.7	6.0	B3/2500		
BM	(30°-60°)	3004.9	12.3	B3/5000		
BH	(60°-80°)	1202.3	4.9	B3/2500		G3/2500
BVH	(80°-90°)	154.9	0.6			G2/225
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3265.6	3265.6	3265.6	3265.6	3265.6	3265.6	3265.6	3265.6	3265.6	3265.6	3265.6
2.5°	3011.2	3029.8	3037.7	3033.8	3053.6	3051.0	3078.8	3113.2	3160.9	3207.3	3274.9
5°	2779.4	2799.3	2816.5	2832.4	2870.8	2882.7	2926.4	2992.7	3080.1	3168.9	3280.2
7.5°	2563.5	2580.7	2607.2	2636.3	2701.2	2713.2	2786.0	2889.4	3011.2	3141.1	3294.7
10°	2387.3	2404.5	2432.3	2465.4	2546.2	2560.8	2653.5	2791.3	2950.3	3114.6	3310.6
12.5°	2311.7	2317.0	2332.9	2366.1	2436.3	2445.5	2547.6	2705.2	2890.7	3094.7	3334.5
15°	2307.8	2318.4	2319.7	2336.9	2395.2	2399.2	2493.2	2649.6	2853.6	3090.7	3370.2
17.5°	2347.5	2355.5	2343.5	2354.1	2403.2	2409.8	2484.0	2623.1	2841.7	3107.9	3431.2
20°	2453.5	2460.1	2424.4	2409.8	2445.5	2450.8	2523.7	2640.3	2853.6	3143.7	3514.6
22.5°	2678.7	2682.7	2595.3	2535.6	2538.3	2540.9	2604.5	2710.5	2900.0	3208.6	3620.6
25°	3029.8	3027.1	2888.0	2772.8	2706.5	2692.0	2734.4	2824.4	2978.1	3294.7	3757.1
27.5°	3440.5	3420.6	3281.5	3109.3	2964.9	2943.7	2934.4	2972.8	3089.4	3408.7	3924.0
30°	3904.1	3885.6	3735.9	3510.7	3310.6	3276.2	3188.8	3168.9	3255.0	3563.7	4155.8
32.5°	4412.9	4400.9	4222.1	3949.2	3681.6	3641.8	3494.8	3441.8	3509.4	3798.2	4479.1
35°	4839.4	4828.8	4680.5	4399.6	4072.4	4023.4	3873.7	3814.1	3848.5	4098.9	4901.7
37.5°	5224.9	5219.6	5092.5	4871.2	4533.4	4473.8	4305.5	4285.7	4279.0	4495.0	5414.4
40°	5582.6	5569.4	5436.9	5320.3	5069.9	5015.6	4867.3	4850.0	4799.7	4982.5	5994.6
42.5°	5978.7	5944.3	5752.2	5697.9	5630.3	5585.3	5496.5	5499.2	5387.9	5532.3	6609.3
45°	6302.0	6282.1	6084.7	6052.9	6125.8	6107.2	6184.1	6204.0	5988.0	6108.6	7247.9
47.5°	6649.1	6630.5	6463.6	6441.1	6638.5	6643.8	6915.4	6922.0	6573.6	6707.4	7887.8
50°	7077.0	7050.5	6884.9	6912.7	7134.0	7153.8	7650.6	7605.6	7112.8	7315.5	8522.3
52.5°	7359.2	7375.1	7339.3	7384.3	7686.4	7704.9	8374.0	8258.7	7646.6	7915.6	9145.0
55°	7567.2	7599.0	7710.2	7813.6	8269.3	8287.8	9056.2	8880.0	8089.1	8472.0	9730.5
57.5°	7834.8	7789.7	7997.7	8199.1	8823.1	8872.1	9719.9	9478.8	8481.3	8951.6	10131.9
60°	8219.0	8187.2	8348.8	8646.9	9443.1	9521.2	10422.1	10018.0	8768.7	9331.8	10210.1
62.5°	8997.9	8918.4	8943.6	9207.2	10224.7	10328.0	11214.3	10488.3	8911.8	9480.1	9791.5
65°	10162.4	10026.0	9898.8	10081.6	11325.6	11427.6	12108.5	10857.9	8858.8	9192.7	8680.0
67.5°	11628.9	11493.8	11337.5	11509.7	12947.1	13027.9	13212.1	11065.9	8441.5	8085.2	6715.3
70°	12838.5	12788.1	12974.9	13683.7	15537.1	15539.7	14626.9	10893.7	7298.2	5732.3	3885.6
72.5°	12678.2	12647.7	13632.0	15823.2	18801.3	18731.1	15966.3	9590.1	4916.3	2586.0	1455.9
75°	10400.9	10598.3	12123.1	15784.8	19973.8	19964.5	15146.2	6096.7	2033.5	1071.7	752.5
77.5°	5577.3	5890.0	7870.5	11654.1	15592.7	15827.2	10648.6	2132.9	873.0	686.2	520.6
80°	1818.9	2091.8	3137.1	5933.7	10131.9	10088.2	4563.9	837.3	597.5	486.2	360.3
82.5°	772.3	804.1	1401.6	2801.9	5199.8	5119.0	1453.3	480.9	420.0	332.5	222.6
85°	302.1	337.8	618.7	1295.6	2252.1	2203.1	524.6	238.5	268.9	217.3	132.5
87.5°	99.4	120.6	221.2	443.8	700.8	675.6	128.5	82.1	116.6	99.4	47.7
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°	3265.6	3265.6	3265.6	3265.6	3265.6	3265.6	3265.6	3265.6	3265.6	3265.6	3265.6
2.5°	3293.4	3314.6	3339.8	3376.9	3408.7	3435.2	3463.0	3480.2	3486.8	3506.7	3505.4
5°	3317.3	3363.6	3425.9	3486.8	3546.4	3582.2	3614.0	3629.9	3644.5	3655.1	3657.7
7.5°	3357.0	3416.6	3514.6	3594.1	3644.5	3673.6	3694.8	3689.5	3694.8	3697.5	3701.4
10°	3391.4	3474.9	3591.5	3667.0	3705.4	3706.7	3701.4	3682.9	3673.6	3674.9	3677.6
12.5°	3432.5	3525.2	3651.1	3714.7	3725.3	3696.1	3673.6	3641.8	3629.9	3624.6	3622.0
15°	3488.2	3594.1	3716.0	3739.9	3713.4	3676.3	3637.9	3586.2	3559.7	3538.5	3545.1
17.5°	3555.7	3672.3	3766.4	3749.1	3692.2	3631.2	3569.0	3490.8	3436.5	3414.0	3415.3
20°	3649.8	3754.4	3804.8	3729.3	3643.2	3550.4	3444.4	3349.1	3298.7	3276.2	3273.5
22.5°	3763.7	3864.4	3841.9	3694.8	3572.9	3424.6	3292.1	3221.9	3196.7	3180.8	3183.5
25°	3900.2	3986.3	3868.4	3644.5	3457.7	3257.6	3155.6	3133.1	3121.2	3109.3	3109.3
27.5°	4077.7	4124.0	3888.2	3570.3	3277.5	3080.1	3043.0	3047.0	3043.0	3023.2	3027.1
30°	4312.2	4302.9	3906.8	3449.7	3070.8	2919.8	2922.5	2939.7	2942.3	2929.1	2935.7
32.5°	4620.8	4526.8	3916.1	3293.4	2873.5	2779.4	2782.0	2800.6	2813.8	2791.3	2801.9
35°	4994.4	4787.8	3901.5	3097.3	2721.1	2645.6	2625.7	2631.0	2635.0	2613.8	2628.4
37.5°	5430.3	5080.5	3836.6	2880.1	2595.3	2514.4	2472.0	2436.3	2415.1	2395.2	2408.5
40°	5908.5	5399.8	3717.3	2668.1	2454.8	2375.3	2311.7	2244.2	2172.6	2146.1	2158.1
42.5°	6409.3	5728.4	3572.9	2465.4	2293.2	2228.3	2160.7	2062.7	1955.4	1901.1	1907.7
45°	6928.6	6064.9	3431.2	2265.4	2127.6	2099.8	2021.6	1903.7	1787.1	1718.2	1712.9
47.5°	7437.3	6382.8	3223.2	2064.0	1972.6	2003.1	1942.1	1833.5	1703.7	1595.0	1583.1
50°	7923.5	6680.9	2882.7	1860.0	1846.7	1973.9	1915.6	1759.3	1610.9	1471.8	1459.9
52.5°	8405.7	6922.0	2446.9	1674.5	1779.2	1966.0	1881.2	1709.0	1527.5	1381.7	1365.9
55°	8815.1	7046.5	2026.9	1515.6	1681.1	1898.4	1840.1	1649.4	1409.6	1254.6	1241.3
57.5°	9048.3	6945.8	1677.2	1359.2	1546.0	1787.1	1769.9	1522.2	1269.1	1149.9	1134.0
60°	8947.6	6537.8	1391.0	1222.8	1417.5	1666.6	1648.0	1396.3	1161.8	1049.2	1033.3
62.5°	8392.5	5760.2	1164.5	1103.5	1300.9	1543.4	1526.2	1299.6	1079.7	971.1	953.8
65°	7274.4	4685.8	988.3	1004.2	1183.0	1395.0	1420.2	1218.8	1014.8	908.8	891.6
67.5°	5548.2	3394.1	850.5	918.1	1067.8	1249.3	1322.1	1160.5	960.5	859.8	843.9
70°	3162.3	1927.6	733.9	834.6	965.8	1114.1	1246.6	1114.1	902.2	818.7	808.1
72.5°	1198.9	885.0	634.6	751.2	867.7	1000.2	1163.2	1041.3	834.6	772.3	761.8
75°	639.9	539.2	533.9	653.1	755.1	888.9	1058.5	969.7	784.3	816.1	842.6
77.5°	435.9	381.5	446.5	559.1	631.9	765.7	947.2	861.1	679.6	677.0	624.0
80°	302.1	270.3	363.0	450.4	488.8	643.8	826.7	739.2	553.8	516.7	494.1
82.5°	181.5	176.2	271.6	336.5	345.8	496.8	684.9	620.0	453.1	394.8	397.4
85°	99.4	104.7	173.5	197.4	201.4	347.1	536.5	479.6	348.4	292.8	295.4
87.5°	27.8	35.8	63.6	78.2	96.7	180.2	319.3	284.8	174.9	121.9	121.9
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)