

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: P941109

Luminaire Tested: **GALN-SB4C-727-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941109
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-727-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27516 lumens
Efficiency: N/A
Efficacy: 137.1 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

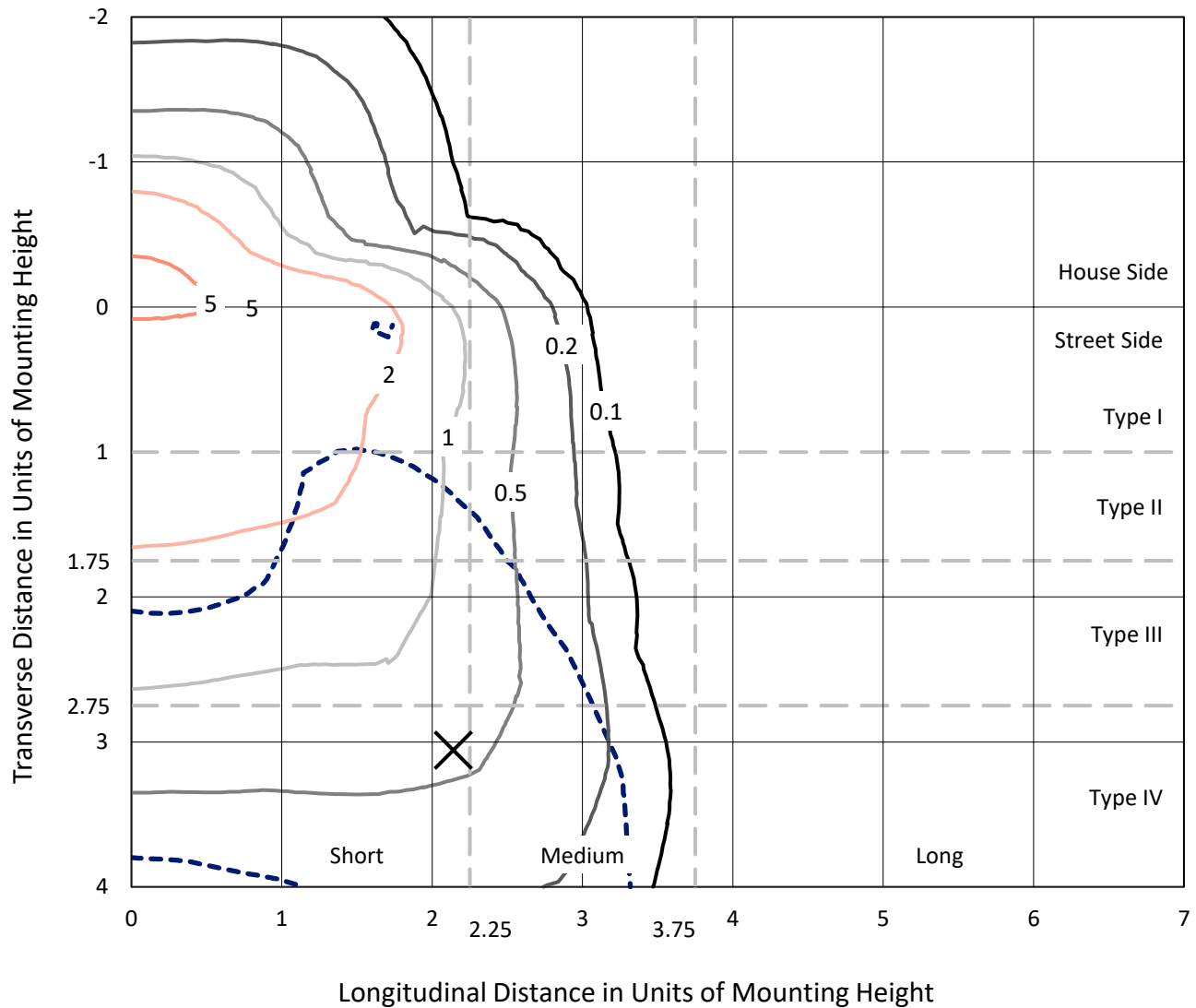


REPORT NUMBER: P941109

CATALOG NUMBER: GALN-SB4C-727-U-T4FT

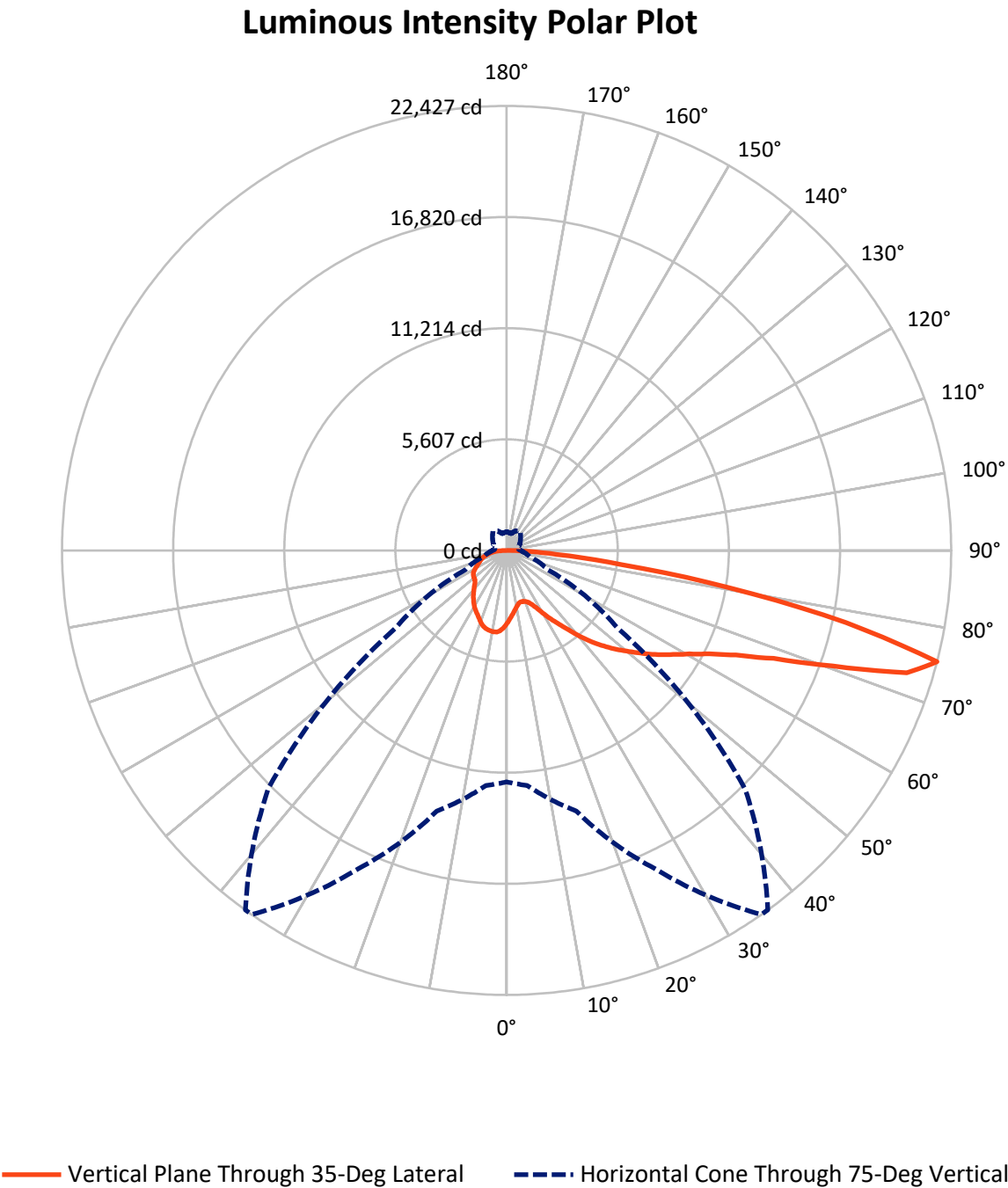
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
Type IV - Short - N/A

REPORT NUMBER: P941109
CATALOG NUMBER: GALN-SB4C-727-U-T4FT



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6548.1	0.0	6548.1
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	20967.9	0.0	20967.9
	% Fixture	76.2	0.0	76.2
Total	Lumens	27516.0	0.0	27516.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.2	1.3
10°-20°	1001.4	3.6
20°-30°	1681.6	6.1
30°-40°	2613.4	9.5
40°-50°	3878.9	14.1
50°-60°	5355.1	19.5
60°-70°	6497.0	23.6
70°-80°	5369.3	19.5
80°-90°	772.3	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°	27516.0	100.0
0°-180°	27516.0	100.0

Coefficient of Utilization



REPORT NUMBER: P941109

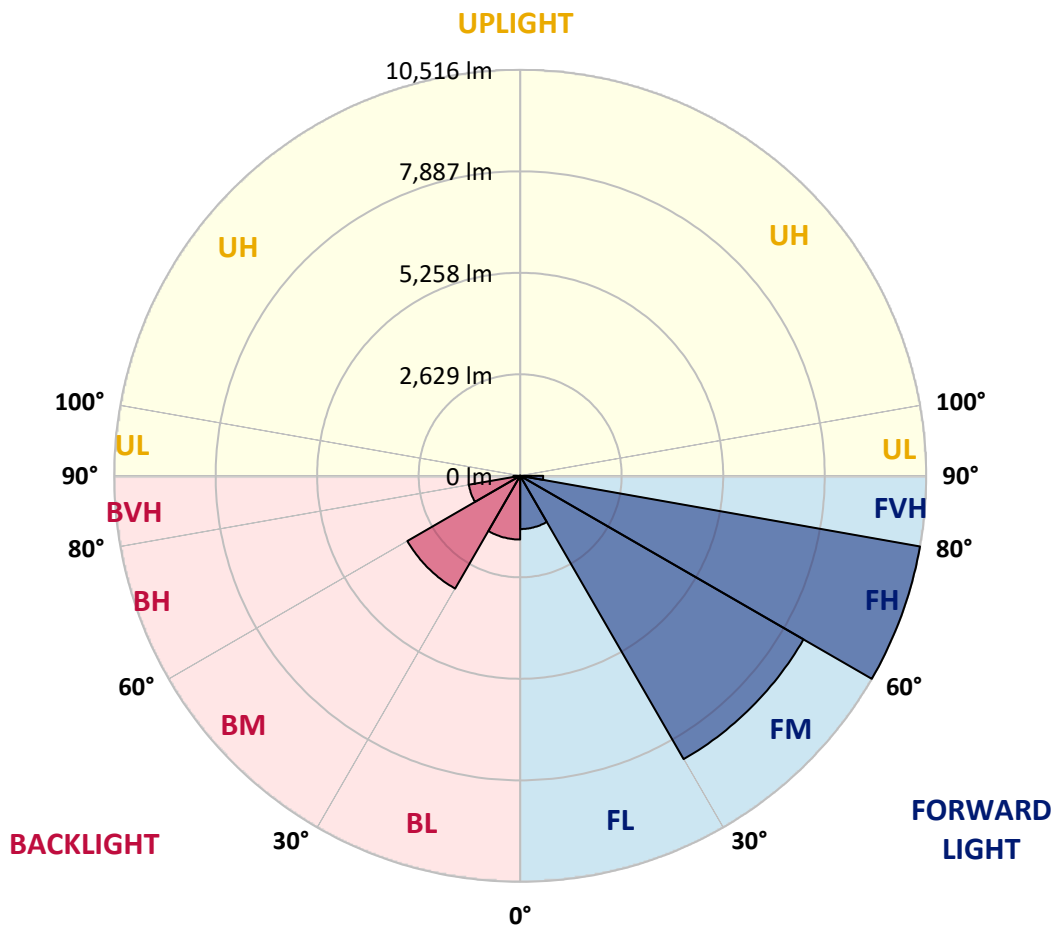
CATALOG NUMBER: GALN-SB4C-727-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1379.9	5.0			
FM	(30°-60°)	8473.4	30.8			
FH	(60°-80°)	10516.2	38.2			G4/12000
FVH	(80°-90°)	598.4	2.2			G4/750
BL	(0°-30°)	1650.2	6.0	B3/2500		
BM	(30°-60°)	3374.0	12.3	B3/5000		
BH	(60°-80°)	1350.0	4.9	B3/2500		G3/2500
BVH	(80°-90°)	173.9	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



REPORT NUMBER: P941109

CATALOG NUMBER: GALN-SB4C-727-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3666.7	3666.7	3666.7	3666.7	3666.7	3666.7	3666.7	3666.7	3666.7	3666.7	3666.7
2.5°	3381.1	3401.9	3410.8	3406.4	3428.7	3425.7	3457.0	3495.6	3549.2	3601.2	3677.1
5°	3120.8	3143.1	3162.4	3180.3	3223.4	3236.8	3285.9	3360.3	3458.4	3558.1	3683.1
7.5°	2878.3	2897.7	2927.4	2960.1	3033.0	3046.4	3128.2	3244.2	3381.1	3526.9	3699.4
10°	2680.5	2699.8	2731.1	2768.2	2859.0	2875.3	2979.5	3134.2	3312.7	3497.1	3717.3
12.5°	2595.7	2601.6	2619.5	2656.7	2735.5	2745.9	2860.5	3037.5	3245.7	3474.8	3744.0
15°	2591.2	2603.1	2604.6	2624.0	2689.4	2693.9	2799.5	2975.0	3204.1	3470.3	3784.2
17.5°	2635.9	2644.8	2631.4	2643.3	2698.3	2705.8	2789.1	2945.3	3190.7	3489.7	3852.6
20°	2754.9	2762.3	2722.1	2705.8	2745.9	2751.9	2833.7	2964.6	3204.1	3529.8	3946.3
22.5°	3007.7	3012.2	2914.0	2847.1	2850.1	2853.0	2924.4	3043.4	3256.1	3602.7	4065.3
25°	3401.9	3398.9	3242.8	3113.3	3039.0	3022.6	3070.2	3171.4	3343.9	3699.4	4218.6
27.5°	3863.0	3840.7	3684.5	3491.2	3329.0	3305.2	3294.8	3338.0	3468.9	3827.3	4406.0
30°	4383.7	4362.8	4194.8	3941.9	3717.3	3678.6	3580.4	3558.1	3654.8	4001.4	4666.3
32.5°	4954.9	4941.5	4740.7	4434.2	4133.8	4089.1	3924.0	3864.5	3940.4	4264.7	5029.2
35°	5433.8	5421.9	5255.3	4940.0	4572.6	4517.5	4349.5	4282.5	4321.2	4602.3	5503.8
37.5°	5866.7	5860.8	5718.0	5469.5	5090.2	5023.3	4834.4	4812.1	4804.6	5047.1	6079.4
40°	6268.3	6253.5	6104.7	5973.8	5692.7	5631.7	5465.1	5445.7	5389.2	5594.5	6730.9
42.5°	6713.1	6674.4	6458.7	6397.7	6321.9	6271.3	6171.6	6174.6	6049.7	6211.8	7421.1
45°	7076.0	7053.7	6832.1	6796.4	6878.2	6857.4	6943.7	6966.0	6723.5	6858.9	8138.1
47.5°	7465.8	7444.9	7257.5	7232.2	7453.9	7459.8	7764.8	7772.2	7381.0	7531.2	8856.6
50°	7946.2	7916.5	7730.5	7761.8	8010.2	8032.5	8590.3	8539.8	7986.4	8214.0	9569.1
52.5°	8263.1	8280.9	8240.8	8291.3	8630.5	8651.3	9402.5	9273.1	8585.9	8887.8	10268.2
55°	8496.6	8532.3	8657.3	8773.3	9285.0	9305.8	10168.6	9970.7	9082.7	9512.6	10925.7
57.5°	8797.1	8746.5	8980.1	9206.2	9906.8	9961.8	10913.8	10643.1	9523.0	10051.1	11376.4
60°	9228.5	9192.8	9374.2	9708.9	10602.9	10690.7	11702.2	11248.5	9845.8	10478.0	11464.2
62.5°	10103.1	10013.9	10042.1	10338.1	11480.5	11596.6	12591.7	11776.6	10006.4	10644.6	10994.1
65°	11410.6	11257.4	11114.6	11319.9	12716.7	12831.2	13595.8	12191.6	9946.9	10321.8	9746.1
67.5°	13057.3	12905.6	12730.0	12923.4	14537.4	14628.1	14834.9	12425.1	9478.4	9078.2	7540.1
70°	14415.4	14358.9	14568.6	15364.4	17445.4	17448.4	16423.5	12231.7	8194.7	6436.4	4362.8
72.5°	14235.4	14201.2	15306.4	17766.7	21110.6	21031.8	17927.4	10768.0	5520.1	2903.6	1634.8
75°	11678.4	11900.0	13612.1	17723.6	22427.1	22416.7	17006.6	6845.5	2283.3	1203.4	844.9
77.5°	6262.4	6613.4	8837.3	13085.6	17507.9	17771.2	11956.5	2394.9	980.3	770.5	584.6
80°	2042.3	2348.8	3522.4	6662.5	11376.4	11327.3	5124.4	940.1	670.9	545.9	404.6
82.5°	867.2	902.9	1573.8	3146.1	5838.4	5747.7	1631.8	540.0	471.5	373.4	249.9
85°	339.2	379.3	694.7	1454.8	2528.8	2473.7	589.1	267.8	302.0	244.0	148.8
87.5°	111.6	135.4	248.4	498.3	786.9	758.6	144.3	92.2	130.9	111.6	53.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941109

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3666.7	3666.7	3666.7	3666.7	3666.7	3666.7	3666.7	3666.7	3666.7	3666.7	3666.7
2.5°	3697.9	3721.7	3750.0	3791.6	3827.3	3857.1	3888.3	3907.7	3915.1	3937.4	3935.9
5°	3724.7	3776.8	3846.7	3915.1	3982.0	4022.2	4057.9	4075.8	4092.1	4104.0	4107.0
7.5°	3769.3	3836.3	3946.3	4035.6	4092.1	4124.8	4148.6	4142.7	4148.6	4151.6	4156.1
10°	3808.0	3901.7	4032.6	4117.4	4160.5	4162.0	4156.1	4135.3	4124.8	4126.3	4129.3
12.5°	3854.1	3958.2	4099.6	4171.0	4182.9	4150.1	4124.8	4089.1	4075.8	4069.8	4066.8
15°	3916.6	4035.6	4172.4	4199.2	4169.5	4127.8	4084.7	4026.7	3996.9	3973.1	3980.6
17.5°	3992.5	4123.4	4229.0	4209.6	4145.7	4077.2	4007.3	3919.6	3858.6	3833.3	3834.8
20°	4098.1	4215.6	4272.1	4187.3	4090.6	3986.5	3867.5	3760.4	3703.9	3678.6	3675.6
22.5°	4226.0	4339.0	4313.8	4148.6	4011.8	3845.2	3696.4	3617.6	3589.3	3571.5	3574.5
25°	4379.2	4475.9	4343.5	4092.1	3882.4	3657.8	3543.2	3517.9	3504.6	3491.2	3491.2
27.5°	4578.5	4630.6	4365.8	4008.8	3680.1	3458.4	3416.8	3421.3	3416.8	3394.5	3398.9
30°	4841.8	4831.4	4386.6	3873.5	3448.0	3278.5	3281.4	3300.8	3303.7	3288.9	3296.3
32.5°	5188.4	5082.8	4397.1	3697.9	3226.4	3120.8	3123.8	3144.6	3159.5	3134.2	3146.1
35°	5607.9	5375.8	4380.7	3477.8	3055.3	2970.5	2948.2	2954.2	2958.6	2934.8	2951.2
37.5°	6097.3	5704.6	4307.8	3233.8	2914.0	2823.3	2775.7	2735.5	2711.7	2689.4	2704.3
40°	6634.3	6063.1	4173.9	2995.8	2756.3	2667.1	2595.7	2519.8	2439.5	2409.8	2423.1
42.5°	7196.5	6432.0	4011.8	2768.2	2574.9	2502.0	2426.1	2316.0	2195.6	2134.6	2142.0
45°	7779.6	6809.8	3852.6	2543.6	2388.9	2357.7	2269.9	2137.5	2006.6	1929.3	1923.3
47.5°	8350.8	7166.8	3619.1	2317.5	2214.9	2249.1	2180.7	2058.7	1912.9	1791.0	1777.6
50°	8896.8	7501.5	3236.8	2088.5	2073.6	2216.4	2150.9	1975.4	1808.8	1652.6	1639.2
52.5°	9438.2	7772.2	2747.4	1880.2	1997.7	2207.5	2112.3	1918.9	1715.1	1551.5	1533.6
55°	9897.8	7912.0	2275.9	1701.7	1887.6	2131.6	2066.1	1851.9	1582.7	1408.7	1393.8
57.5°	10159.6	7799.0	1883.2	1526.2	1735.9	2006.6	1987.3	1709.1	1425.0	1291.2	1273.3
60°	10046.6	7340.8	1561.9	1373.0	1591.6	1871.3	1850.5	1567.8	1304.5	1178.1	1160.3
62.5°	9423.3	6467.7	1307.5	1239.1	1460.7	1732.9	1713.6	1459.2	1212.3	1090.3	1071.0
65°	8167.9	5261.3	1109.7	1127.5	1328.3	1566.3	1594.6	1368.5	1139.4	1020.4	1001.1
67.5°	6229.7	3811.0	955.0	1030.8	1198.9	1402.7	1484.5	1303.1	1078.4	965.4	947.5
70°	3550.7	2164.3	824.1	937.1	1084.4	1251.0	1399.7	1251.0	1013.0	919.3	907.4
72.5°	1346.2	993.7	712.5	843.4	974.3	1123.1	1306.0	1169.2	937.1	867.2	855.3
75°	718.5	605.4	599.5	733.3	847.9	998.1	1188.5	1088.9	880.6	916.3	946.1
77.5°	489.4	428.4	501.3	627.7	709.5	859.8	1063.6	966.9	763.1	760.1	700.6
80°	339.2	303.5	407.6	505.8	548.9	722.9	928.2	830.0	621.8	580.1	554.8
82.5°	203.8	197.8	304.9	377.8	388.2	557.8	769.0	696.2	508.7	443.3	446.3
85°	111.6	117.5	194.9	221.6	226.1	389.7	602.4	538.5	391.2	328.7	331.7
87.5°	31.2	40.2	71.4	87.8	108.6	202.3	358.5	319.8	196.4	136.9	136.9
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)