

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: P949869

Luminaire Tested: **GALN-SB4C-727-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949869
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
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-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27785 lumens
Efficiency: N/A
Efficacy: 138.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

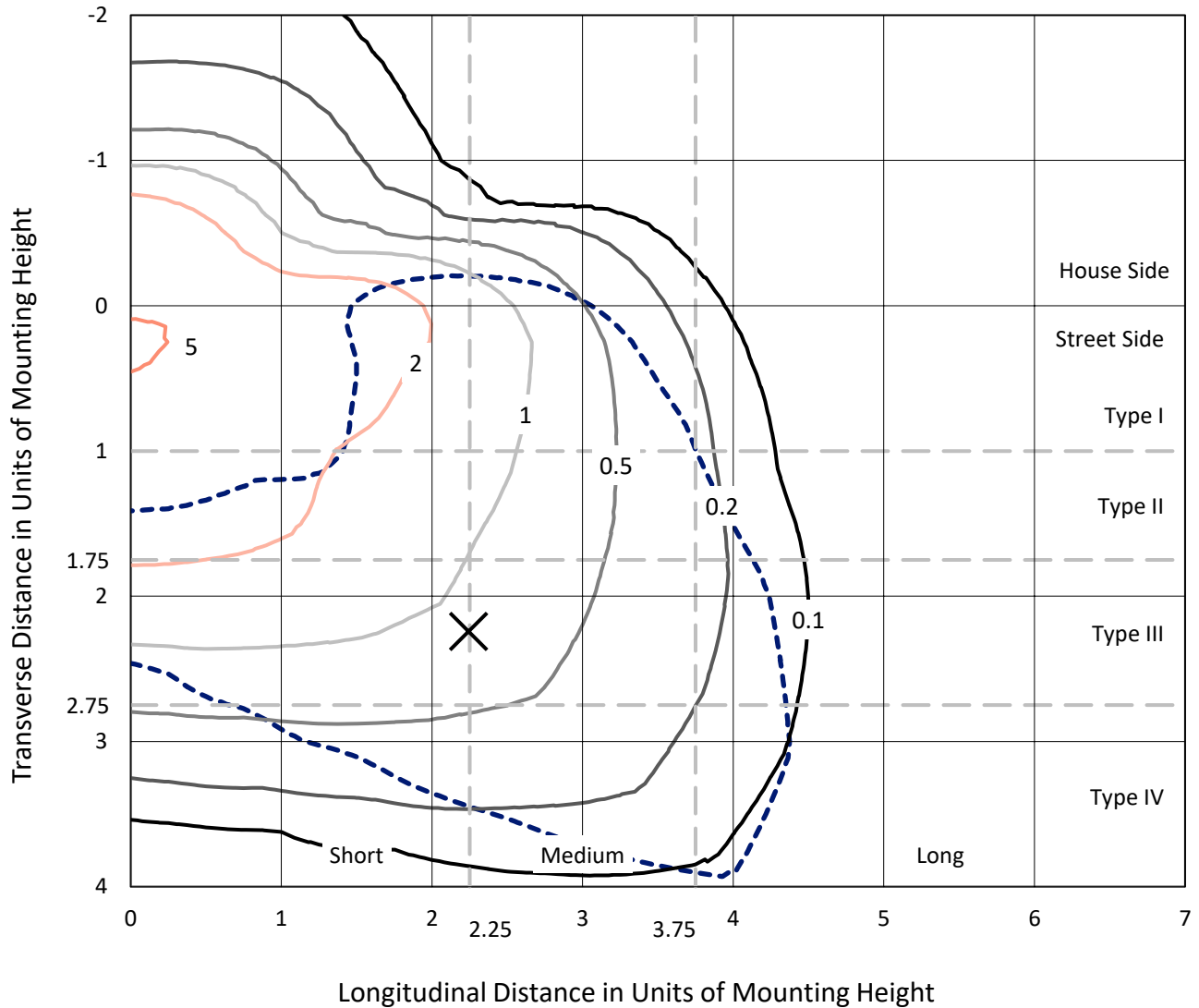
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

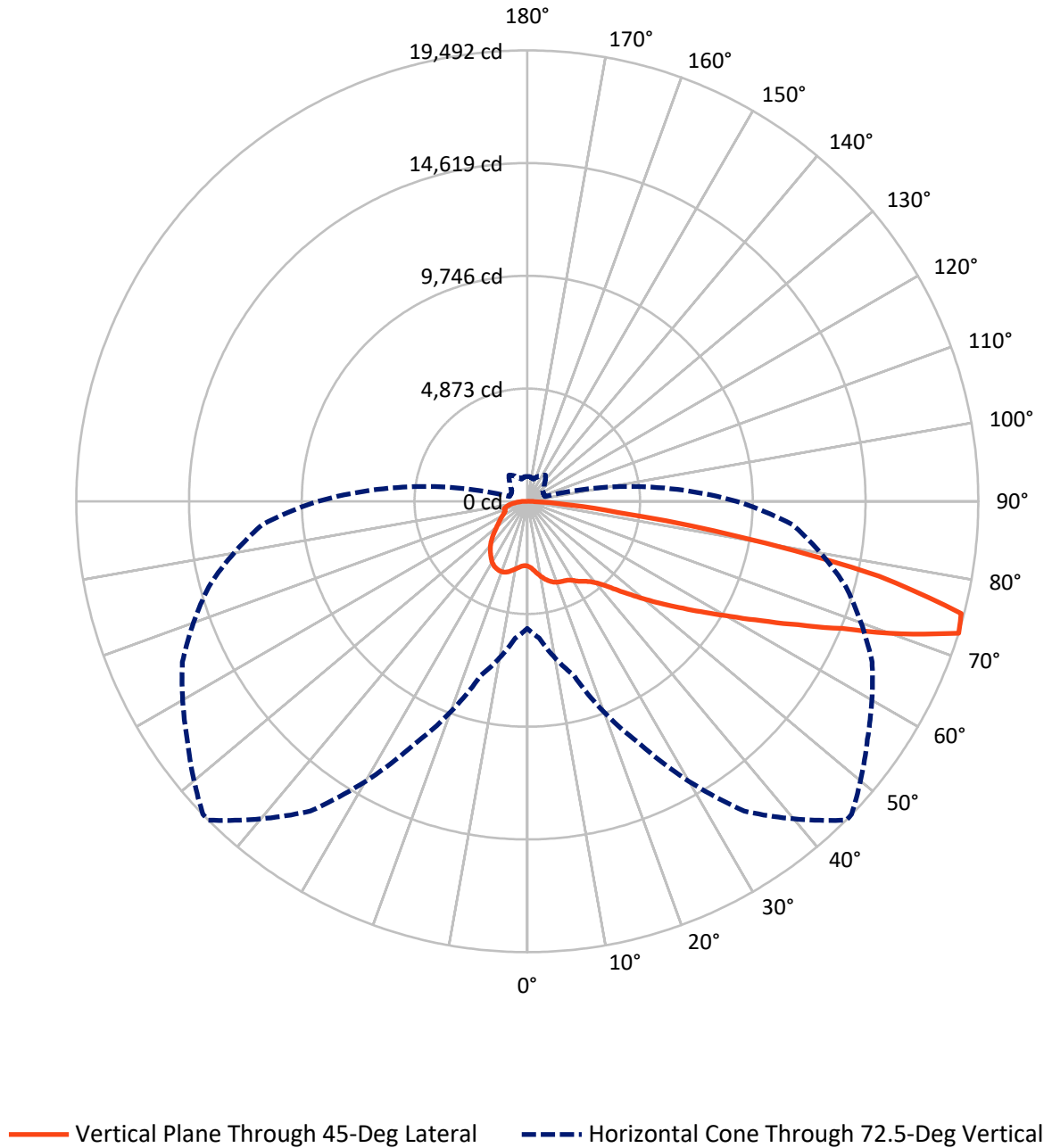
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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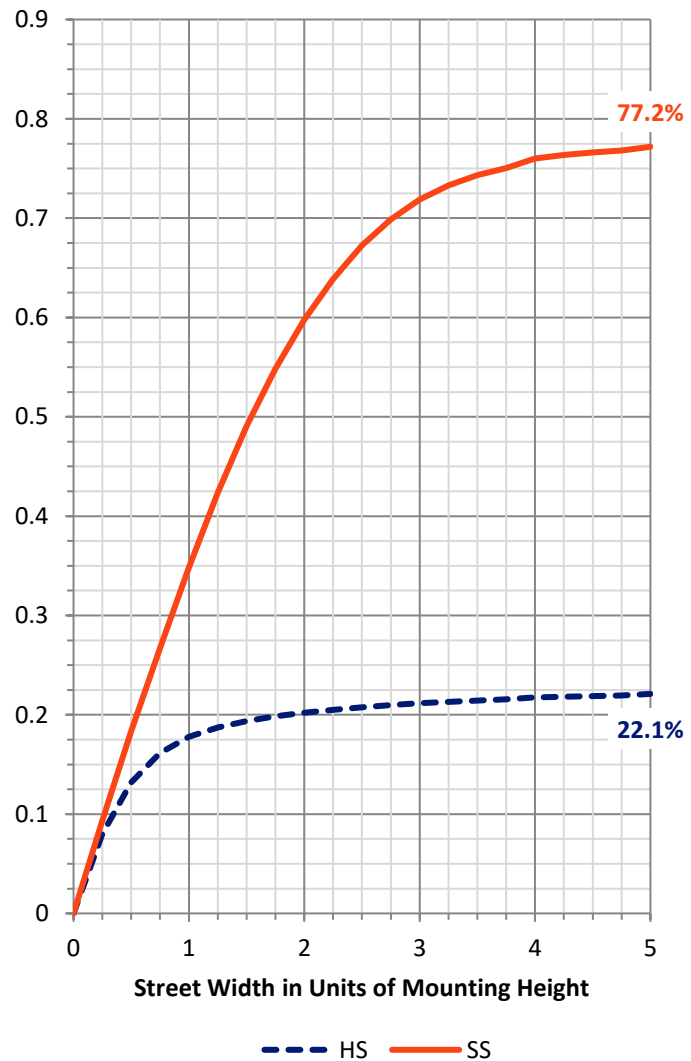
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6281.2	0.0	6281.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	21503.8	0.0	21503.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	27785.0	0.0	27785.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.3	1.0
10°-20°	951.2	3.4
20°-30°	1654.6	6.0
30°-40°	2372.0	8.5
40°-50°	3339.9	12.0
50°-60°	5115.8	18.4
60°-70°	7411.0	26.7
70°-80°	5918.1	21.3
80°-90°	737.1	2.7
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°	27785.0	100.0
0°-180°	27785.0	100.0



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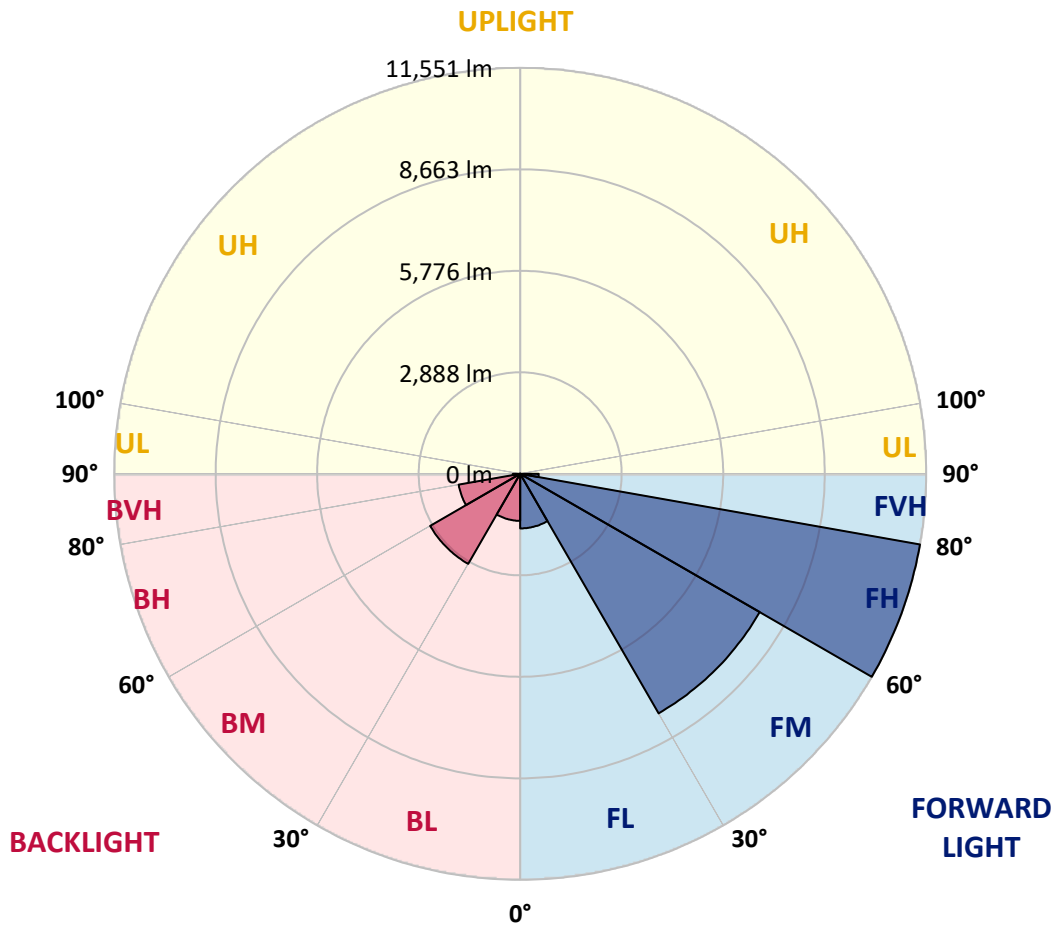
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1553.8	5.6			
FM (30°-60°)	7870.2	28.3			
FH (60°-80°)	11551.0	41.6			G4/12000
FVH (80°-90°)	528.8	1.9			G4/750
BL (0°-30°)	1337.3	4.8	B3/2500		
BM (30°-60°)	2957.6	10.6	B3/5000		
BH (60°-80°)	1778.1	6.4	B3/2500		G3/2500
BVH (80°-90°)	208.3	0.7			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°	45°	46°	55°	65°	75°	85°
0°	2803.0	2803.0	2803.0	2803.0	2803.0	2803.0	2803.0	2803.0	2803.0	2803.0	2803.0
2.5°	2912.7	2931.8	2914.2	2898.1	2890.8	2871.8	2870.3	2858.6	2851.3	2830.8	2824.9
5°	3116.2	3141.1	3111.8	3079.6	3050.3	3003.5	2997.6	2964.0	2925.9	2882.0	2857.1
7.5°	3346.0	3367.9	3334.3	3286.0	3234.8	3157.2	3155.7	3094.2	3034.2	2959.6	2917.1
10°	3546.5	3575.8	3530.4	3464.6	3400.2	3312.3	3302.1	3231.8	3155.7	3059.1	2994.7
12.5°	3723.6	3744.1	3700.2	3619.7	3545.1	3457.2	3444.1	3366.5	3281.6	3171.8	3089.8
15°	3864.1	3890.5	3831.9	3745.6	3666.5	3580.2	3568.5	3498.2	3413.3	3297.7	3192.3
17.5°	3956.4	3978.3	3918.3	3821.7	3745.6	3673.9	3665.1	3606.5	3531.9	3414.8	3302.1
20°	3991.5	4014.9	3952.0	3853.9	3783.6	3728.0	3723.6	3681.2	3630.0	3523.1	3408.9
22.5°	4026.6	4048.6	3966.6	3864.1	3802.7	3767.5	3766.1	3738.3	3717.8	3630.0	3518.7
25°	4168.6	4174.4	4064.7	3916.8	3829.0	3798.3	3796.8	3795.3	3804.1	3735.3	3637.3
27.5°	4291.5	4290.1	4196.4	4057.3	3921.2	3856.8	3855.4	3870.0	3897.8	3840.7	3760.2
30°	4471.6	4455.5	4344.2	4199.3	4074.9	3975.4	3966.6	3953.4	3975.4	3930.0	3883.2
32.5°	4853.6	4802.4	4622.3	4364.7	4202.3	4126.1	4114.4	4032.5	4041.2	4013.4	3990.0
35°	5401.0	5333.7	5093.6	4678.0	4360.3	4252.0	4246.2	4142.2	4124.7	4099.8	4108.6
37.5°	6052.4	5968.9	5689.4	5131.7	4632.6	4398.4	4389.6	4295.9	4224.2	4197.9	4247.6
40°	6706.6	6601.2	6370.0	5685.0	5033.6	4642.8	4615.0	4473.0	4391.1	4347.2	4452.5
42.5°	7341.9	7254.0	7056.4	6305.6	5528.4	5000.0	4938.5	4695.5	4634.0	4593.1	4783.3
45°	7903.9	7824.9	7680.0	6968.6	6108.0	5485.9	5425.9	5029.2	5010.2	5010.2	5285.4
47.5°	8360.6	8343.0	8189.3	7644.9	6791.5	6039.2	5935.3	5493.2	5544.5	5623.5	5998.2
50°	8867.0	8818.7	8654.8	8310.8	7595.1	6673.0	6588.1	6062.6	6254.3	6471.0	7028.6
52.5°	9332.5	9358.8	9175.9	9004.6	8502.6	7379.9	7230.6	6734.4	7148.7	7507.3	8236.2
55°	9811.1	9812.6	9761.3	9737.9	9454.0	8161.5	7997.6	7542.4	8201.1	8646.0	9644.3
57.5°	10260.5	10263.4	10339.5	10545.9	10557.6	9063.2	8877.3	8534.8	9370.5	9824.3	11096.2
60°	10661.5	10682.0	10889.9	11372.9	11528.0	10096.5	9920.9	9707.2	10579.5	11036.2	12622.9
62.5°	10796.2	10870.8	11333.3	12019.8	12486.7	11364.1	11191.4	11064.0	11850.0	12274.5	13899.2
65°	10567.8	10739.1	11633.4	12554.1	13473.3	12870.2	12699.0	12559.9	13170.3	13569.9	14947.2
67.5°	10007.2	10228.3	11615.8	13114.7	14670.6	14682.3	14522.7	14196.3	14585.7	14739.4	15288.2
70°	8530.4	8861.2	10592.7	13324.0	16045.0	17160.3	17006.6	16166.5	15998.1	15254.6	14328.1
72.5°	5496.2	5941.1	7800.0	11601.2	16350.9	19492.0	19483.2	17944.8	16444.6	14253.4	11491.4
75°	2005.3	2277.5	3624.1	7281.9	13725.0	19373.4	19430.5	17640.4	15011.6	11009.9	7158.9
77.5°	730.4	799.2	1182.7	2798.6	8441.1	15544.4	15662.9	14102.6	10684.9	5525.4	2836.6
80°	383.5	421.5	606.0	1086.1	3616.8	9231.5	9417.4	8381.1	5021.9	1664.2	850.4
82.5°	212.2	229.8	339.6	589.9	1629.1	3947.6	4058.8	3310.9	1766.7	705.5	351.3
85°	114.2	121.5	159.5	322.0	796.2	1368.5	1399.3	989.5	704.0	414.2	169.8
87.5°	33.7	41.0	52.7	102.5	311.8	307.4	314.7	196.1	278.1	209.3	55.6
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°	2803.0	2803.0	2803.0	2803.0	2803.0	2803.0	2803.0	2803.0	2803.0	2803.0	2803.0
2.5°	2816.1	2811.7	2795.6	2788.3	2779.5	2778.1	2785.4	2786.9	2788.3	2789.8	2795.6
5°	2842.5	2827.8	2813.2	2804.4	2807.4	2808.8	2823.5	2833.7	2841.0	2846.9	2849.8
7.5°	2893.7	2882.0	2857.1	2855.7	2860.0	2873.2	2892.3	2915.7	2928.8	2939.1	2942.0
10°	2969.8	2947.9	2918.6	2923.0	2931.8	2950.8	2990.3	3009.3	3031.3	3050.3	3045.9
12.5°	3047.4	3028.4	2994.7	2997.6	3012.3	3045.9	3084.0	3107.4	3122.1	3136.7	3142.5
15°	3148.4	3114.7	3078.1	3078.1	3104.5	3141.1	3158.6	3177.7	3186.5	3202.6	3208.4
17.5°	3252.3	3208.4	3160.1	3157.2	3189.4	3206.9	3217.2	3220.1	3223.0	3240.6	3246.5
20°	3356.2	3307.9	3239.1	3233.3	3240.6	3237.7	3236.2	3233.3	3237.7	3259.6	3268.4
22.5°	3458.7	3403.1	3307.9	3281.6	3261.1	3233.3	3231.8	3230.4	3233.3	3255.2	3269.9
25°	3578.7	3511.4	3384.1	3305.0	3236.2	3198.2	3202.6	3204.0	3206.9	3224.5	3247.9
27.5°	3709.0	3634.3	3454.3	3297.7	3173.3	3146.9	3139.6	3144.0	3154.3	3182.1	3209.9
30°	3839.3	3751.4	3518.7	3268.4	3094.2	3057.6	3034.2	3044.5	3076.7	3104.5	3135.2
32.5°	3957.8	3870.0	3569.9	3204.0	2993.2	2936.2	2905.4	2918.6	2950.8	2961.0	2997.6
35°	4096.9	3997.3	3591.9	3101.6	2883.5	2795.6	2754.7	2735.6	2751.7	2741.5	2773.7
37.5°	4252.0	4148.1	3589.0	2966.9	2754.7	2653.7	2596.6	2524.9	2491.2	2456.1	2478.0
40°	4481.8	4332.5	3553.8	2804.4	2595.1	2502.9	2400.5	2279.0	2202.9	2134.1	2138.5
42.5°	4795.0	4588.7	3489.4	2625.9	2415.1	2328.7	2189.7	2047.7	1927.7	1813.5	1803.3
45°	5262.0	4923.9	3408.9	2435.6	2220.4	2135.5	1984.8	1825.2	1689.1	1542.7	1525.2
47.5°	5935.3	5374.7	3332.8	2219.0	2015.5	1937.9	1801.8	1654.0	1493.0	1351.0	1334.9
50°	6860.3	6021.6	3262.6	2008.2	1813.5	1755.0	1646.7	1495.9	1333.4	1219.3	1211.9
52.5°	8037.1	6901.3	3233.3	1804.7	1624.7	1602.7	1516.4	1375.9	1222.2	1125.6	1118.3
55°	9388.1	7953.7	3233.3	1610.1	1459.3	1466.6	1406.6	1276.3	1143.1	1056.8	1048.0
57.5°	10766.9	9019.3	3174.7	1430.0	1318.8	1349.5	1311.5	1197.3	1077.3	988.0	973.4
60°	12037.4	9912.1	2937.6	1266.1	1194.4	1242.7	1217.8	1119.7	973.4	898.7	887.0
62.5°	13013.7	10415.6	2481.0	1135.8	1091.9	1147.5	1134.4	1017.3	954.3	923.6	913.3
65°	13502.5	10333.6	1896.9	1020.2	1005.6	1091.9	1064.1	1059.7	1009.9	974.8	963.1
67.5°	13202.5	9628.2	1375.9	935.3	955.8	1040.7	1147.5	1165.1	1072.9	1004.1	992.4
70°	11886.6	8351.8	1024.6	854.8	892.9	1042.1	1308.5	1219.3	1052.4	971.9	958.7
72.5°	9042.7	6228.0	794.8	769.9	810.9	1049.5	1380.3	1194.4	993.8	1074.3	1065.6
75°	5171.2	3419.2	638.2	666.0	708.4	980.7	1343.7	1130.0	948.5	986.5	986.5
77.5°	1971.6	1314.4	526.9	563.5	569.4	856.3	1285.1	1125.6	903.1	881.1	803.6
80°	683.5	513.8	436.2	447.9	440.6	761.1	1232.4	979.2	739.2	661.6	639.6
82.5°	279.6	256.1	345.4	330.8	313.2	591.3	995.3	800.6	604.5	534.2	528.4
85°	121.5	162.5	228.3	200.5	181.5	409.8	797.7	677.7	510.8	440.6	439.1
87.5°	24.9	61.5	96.6	90.7	93.7	273.7	566.4	481.6	361.5	270.8	212.2
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)