

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: P948439

Luminaire Tested: **GALN-SB3C-727-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3C-727-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21396 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 149.1
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

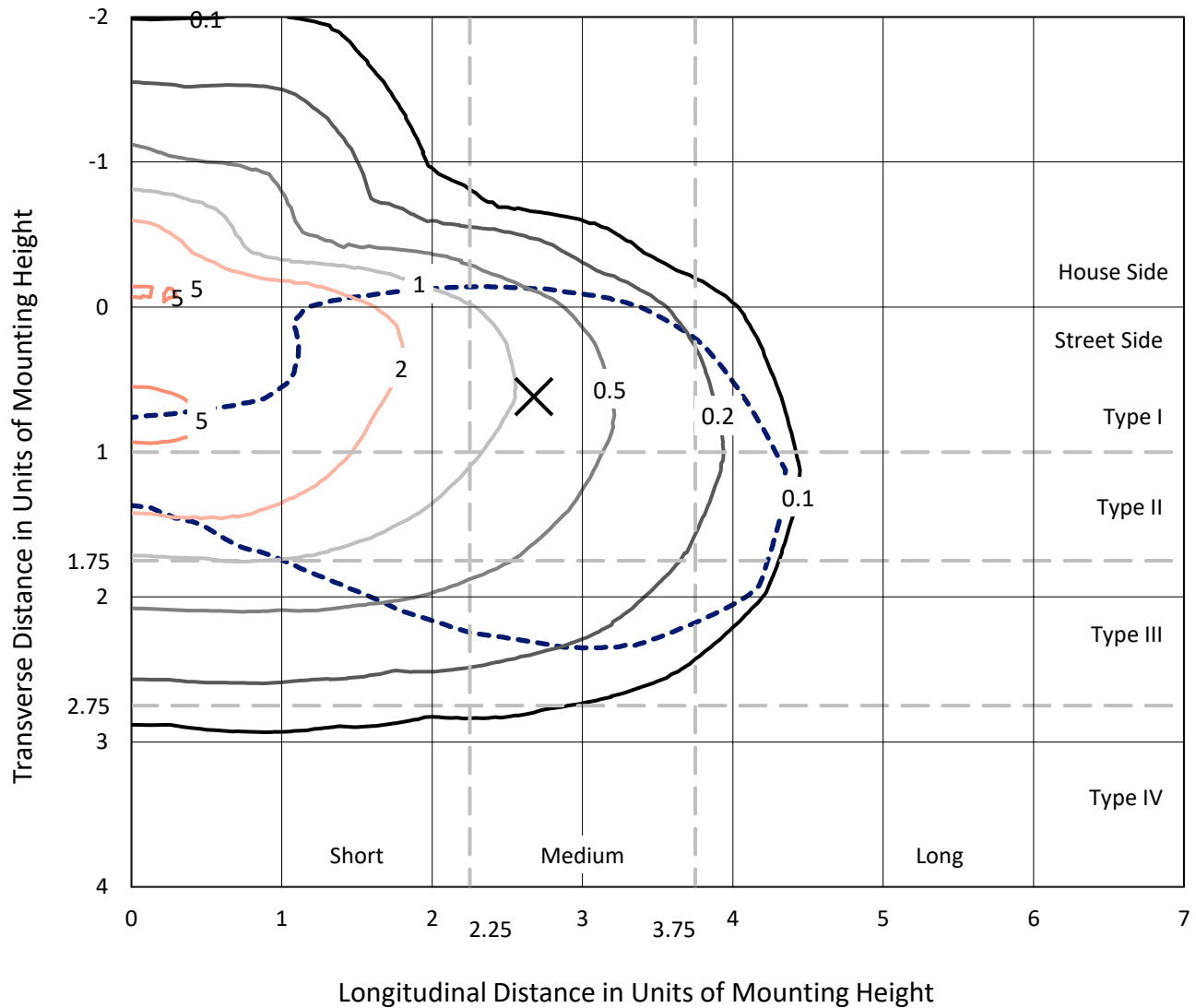


REPORT NUMBER: P948439

CATALOG NUMBER: GALN-SB3C-727-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

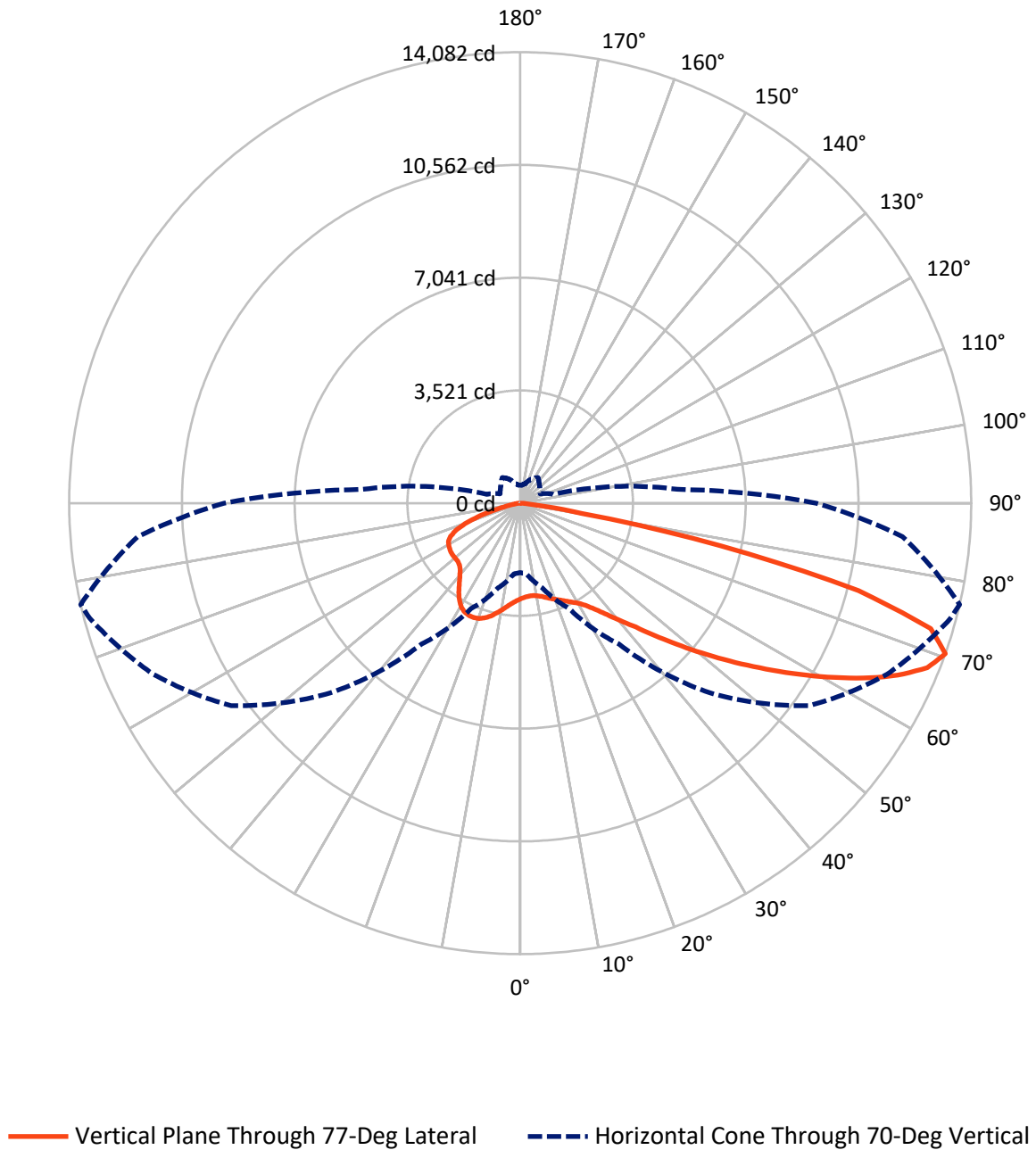


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
Type III - Medium - N/A

REPORT NUMBER: P948439

CATALOG NUMBER: GALN-SB3C-727-U-T3R

Luminous Intensity Polar Plot



REPORT NUMBER: P948439

CATALOG NUMBER: GALN-SB3C-727-U-T3R

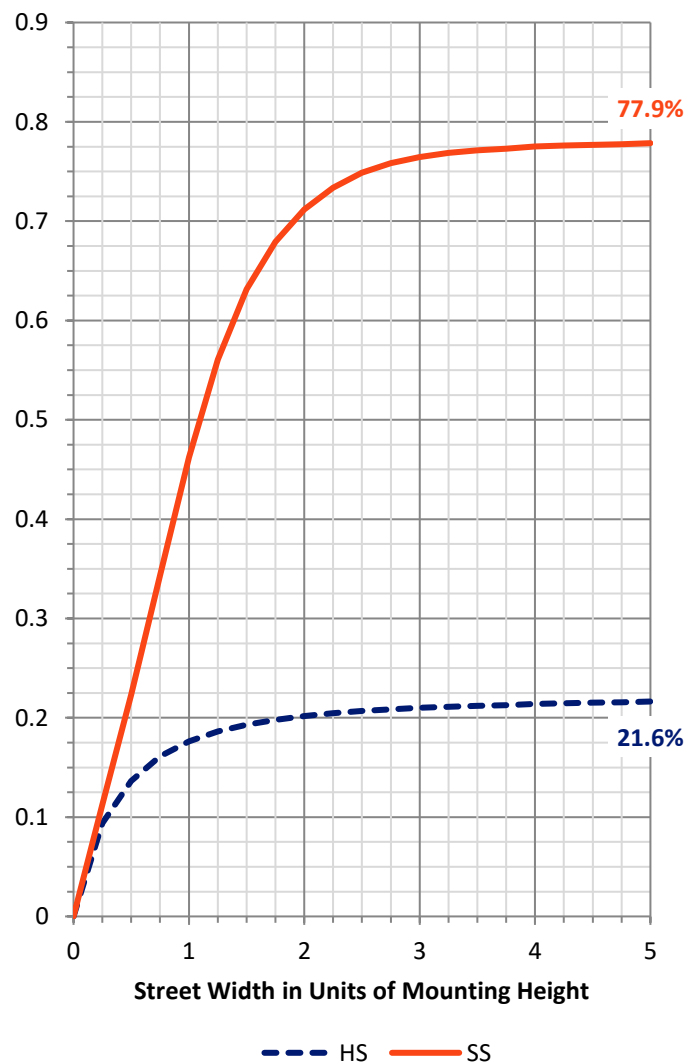
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4685.4	0.0	4685.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	16710.6	0.0	16710.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	21396.0	0.0	21396.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.7	1.3
10°-20°	821.6	3.8
20°-30°	1405.1	6.6
30°-40°	2259.5	10.6
40°-50°	3527.7	16.5
50°-60°	4712.2	22.0
60°-70°	5022.5	23.5
70°-80°	3091.8	14.5
80°-90°	270.9	1.3
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°	21396.0	100.0
0°-180°	21396.0	100.0

Coefficient of Utilization



REPORT NUMBER: P948439

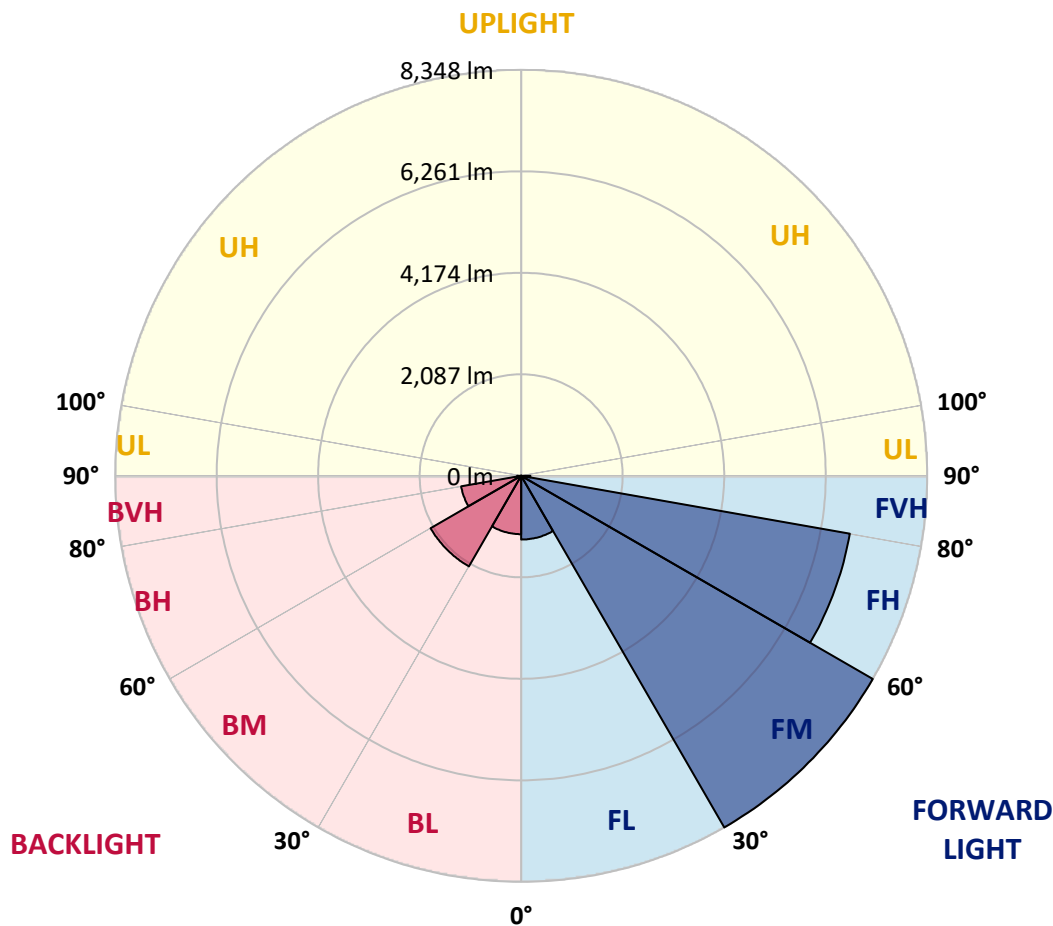
CATALOG NUMBER: GALN-SB3C-727-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1310.8	6.1			
FM	(30°-60°)	8348.2	39.0			
FH	(60°-80°)	6862.1	32.1			G3/7500
FVH	(80°-90°)	189.5	0.9			G2/225
BL	(0°-30°)	1200.5	5.6	B3/2500		
BM	(30°-60°)	2151.2	10.1	B2/2500		
BH	(60°-80°)	1252.2	5.9	B3/2500		G3/2500
BVH	(80°-90°)	81.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



REPORT NUMBER: P948439

CATALOG NUMBER: GALN-SB3C-727-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2984.9	2984.9	2984.9	2984.9	2984.9	2984.9	2984.9	2984.9	2984.9	2984.9	2984.9
2.5°	2751.5	2750.4	2764.7	2769.1	2795.4	2814.0	2849.1	2886.3	2934.5	2940.0	2969.6
5°	2592.6	2592.6	2609.1	2626.6	2660.6	2697.8	2751.5	2816.2	2899.5	2912.6	2986.0
7.5°	2457.9	2466.6	2480.9	2514.8	2554.3	2608.0	2690.2	2782.2	2891.8	2912.6	3031.0
10°	2349.4	2359.2	2376.8	2404.2	2463.3	2537.9	2645.2	2763.6	2910.4	2943.3	3096.7
12.5°	2315.4	2325.3	2335.1	2356.0	2410.7	2498.4	2626.6	2772.4	2955.4	2988.2	3186.6
15°	2394.3	2406.4	2398.7	2393.2	2421.7	2501.7	2635.4	2804.1	3011.2	3058.4	3297.2
17.5°	2576.2	2580.6	2563.1	2511.6	2507.2	2549.9	2677.0	2848.0	3081.4	3132.9	3409.0
20°	2869.9	2862.2	2826.0	2724.1	2666.1	2657.3	2748.2	2913.7	3153.7	3208.5	3529.5
22.5°	3268.7	3260.0	3187.7	3026.6	2897.3	2811.8	2851.3	2999.2	3234.8	3296.1	3646.8
25°	3766.2	3754.2	3647.9	3428.7	3228.2	3016.7	2991.5	3112.0	3334.5	3391.5	3769.5
27.5°	4347.0	4337.1	4222.1	3932.8	3643.5	3297.2	3165.7	3244.6	3438.6	3503.2	3907.6
30°	4971.6	5000.1	4796.3	4485.1	4119.1	3663.2	3400.2	3407.9	3573.4	3631.5	4075.3
32.5°	5705.8	5755.1	5509.6	5115.2	4615.5	4061.0	3696.1	3635.8	3769.5	3817.7	4286.7
35°	6433.4	6489.3	6285.5	5849.3	5274.0	4530.0	4005.1	3897.7	4030.3	4082.9	4567.3
37.5°	7062.4	7136.9	7031.7	6652.6	5978.6	5095.4	4408.4	4205.6	4351.4	4417.1	4944.2
40°	7558.8	7672.7	7665.1	7428.4	6809.3	5781.4	4920.1	4585.9	4750.3	4821.5	5401.2
42.5°	7962.0	8060.6	8146.1	8134.1	7676.0	6560.5	5521.7	5080.1	5205.0	5287.2	5915.1
45°	8240.4	8345.6	8529.6	8728.0	8509.9	7394.4	6210.9	5666.3	5780.3	5904.1	6527.6
47.5°	8489.1	8608.5	8847.4	9161.9	9217.8	8231.6	6965.9	6349.0	6453.1	6581.3	7142.4
50°	8511.0	8614.0	8984.4	9430.4	9720.8	9035.9	7776.8	7115.0	7212.5	7349.5	7800.9
52.5°	7981.7	8143.9	8790.4	9422.7	9952.0	9708.7	8582.2	7911.6	8021.2	8185.6	8482.5
55°	6195.6	6433.4	8221.7	9129.0	9869.8	10143.7	9348.2	8758.7	8898.9	9071.0	9168.5
57.5°	5336.5	5440.6	6526.5	8594.3	9495.0	10256.6	9994.7	9614.5	9840.2	10028.7	9893.9
60°	4796.3	4882.8	5525.0	7762.6	9001.9	10078.0	10494.4	10412.2	10802.3	11027.0	10635.8
62.5°	4217.7	4299.9	4883.9	6481.6	8370.8	9781.0	10810.0	11148.6	11788.5	12034.0	11334.9
65°	3643.5	3713.6	4273.6	5446.1	7568.6	9484.1	10973.3	11785.2	12701.3	12955.5	11915.6
67.5°	3003.6	3061.6	3590.9	4594.7	6593.4	9077.5	11054.3	12286.0	13495.8	13713.8	12202.7
70°	2167.5	2212.4	2759.2	3633.6	5369.4	8378.4	11021.5	12641.1	13907.8	14082.0	11985.8
72.5°	1024.6	1065.1	1707.2	2359.2	3792.5	7017.5	10356.3	12359.4	13489.2	13402.6	10657.7
75°	546.8	581.9	980.7	1294.1	2003.1	4810.5	8474.9	10646.7	11327.2	10906.4	7876.6
77.5°	370.4	397.8	607.1	776.9	915.0	2283.6	5447.2	7371.4	7092.0	6397.2	3944.9
80°	293.7	322.2	497.5	526.0	442.7	825.1	2250.8	3412.3	2451.3	1960.4	1122.1
82.5°	225.7	257.5	418.6	381.3	241.1	338.6	655.3	1079.4	627.9	477.8	271.8
85°	138.1	172.0	328.7	243.3	135.9	154.5	222.4	300.2	191.8	160.0	97.5
87.5°	70.1	98.6	166.6	88.8	61.4	36.2	59.2	59.2	50.4	43.8	25.2
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: P948439

CATALOG NUMBER: GALN-SB3C-727-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2984.9	2984.9	2984.9	2984.9	2984.9	2984.9	2984.9	2984.9	2984.9	2984.9	2984.9
2.5°	2995.9	3017.8	3055.1	3090.1	3117.5	3143.8	3170.1	3184.4	3188.8	3206.3	3216.1
5°	3031.0	3071.5	3143.8	3211.8	3254.5	3280.8	3299.4	3310.4	3312.6	3318.1	3326.8
7.5°	3095.6	3160.3	3261.1	3329.0	3360.8	3358.6	3350.9	3323.5	3312.6	3302.7	3304.9
10°	3186.6	3272.0	3395.9	3443.0	3423.3	3370.7	3302.7	3222.7	3185.5	3149.3	3138.3
12.5°	3299.4	3407.9	3529.5	3527.4	3429.8	3295.0	3137.3	3014.5	2936.7	2880.8	2867.7
15°	3436.4	3561.3	3654.5	3580.0	3366.3	3124.1	2892.9	2732.9	2662.8	2601.4	2594.8
17.5°	3577.8	3711.4	3754.2	3563.5	3206.3	2871.0	2609.1	2483.1	2414.0	2381.2	2391.0
20°	3715.8	3848.4	3813.4	3469.3	2963.0	2583.9	2350.5	2281.4	2267.2	2274.9	2271.6
22.5°	3861.6	3979.9	3825.4	3287.4	2652.9	2290.2	2162.0	2164.2	2196.0	2219.0	2224.5
25°	4010.6	4090.6	3793.6	3024.4	2319.8	2074.3	2042.6	2077.6	2140.1	2185.0	2197.1
27.5°	4154.1	4189.2	3724.6	2698.9	2033.8	1919.8	1925.3	1997.6	2091.9	2154.3	2169.7
30°	4316.3	4276.9	3592.0	2332.9	1835.5	1787.2	1833.3	1917.6	2011.9	2067.8	2080.9
32.5°	4499.3	4352.5	3381.6	1994.3	1695.2	1680.9	1756.6	1811.3	1853.0	1869.4	1878.2
35°	4727.2	4458.8	3112.0	1756.6	1569.2	1603.1	1675.5	1648.1	1631.6	1622.9	1631.6
37.5°	5023.1	4602.3	2796.5	1602.0	1467.3	1547.3	1576.8	1491.4	1426.7	1394.9	1402.6
40°	5379.2	4812.7	2492.9	1482.6	1402.6	1499.0	1447.5	1344.5	1262.4	1217.4	1220.7
42.5°	5774.8	5033.0	2237.6	1392.8	1366.5	1459.6	1352.2	1229.5	1096.9	1082.6	1096.9
45°	6190.1	5259.8	2063.4	1323.7	1348.9	1425.6	1297.4	1099.1	1004.8	1062.9	1093.6
47.5°	6605.4	5468.0	1958.2	1272.2	1340.2	1387.3	1249.2	1026.8	959.9	1044.3	1083.7
50°	7067.9	5654.3	1911.1	1235.0	1330.3	1371.9	1176.9	1008.1	912.8	968.7	1010.3
52.5°	7527.0	5798.9	1876.0	1197.7	1316.0	1359.9	1141.8	986.2	855.8	859.1	882.1
55°	7985.0	5893.2	1837.6	1148.4	1284.3	1333.6	1138.5	962.1	813.1	797.7	808.7
57.5°	8473.8	5946.9	1790.5	1093.6	1229.5	1266.7	1135.2	943.5	799.9	774.7	778.0
60°	8971.2	6025.8	1729.2	1026.8	1156.1	1186.7	1127.6	936.9	792.3	749.5	752.8
62.5°	9417.2	6053.2	1655.7	963.2	1061.8	1107.8	1111.1	931.4	771.4	698.0	698.0
65°	9709.8	5934.8	1527.5	890.9	959.9	1026.8	1079.4	912.8	734.2	660.8	660.8
67.5°	9697.8	5597.3	1327.0	797.7	861.3	936.9	1033.3	881.0	689.3	614.7	618.0
70°	9246.3	4931.1	1072.8	689.3	752.8	840.5	974.2	833.9	635.6	564.3	570.9
72.5°	7930.2	3859.4	779.1	562.1	626.8	740.8	897.5	776.9	580.8	519.4	516.1
75°	5665.2	2442.5	528.2	431.7	487.6	627.9	802.1	710.1	530.4	521.6	492.0
77.5°	2894.0	1167.0	349.6	315.6	339.7	495.3	673.9	634.5	538.0	430.6	383.5
80°	941.3	430.6	220.3	214.8	225.7	329.8	521.6	520.5	407.6	292.6	258.6
82.5°	300.2	185.2	143.5	138.1	132.6	207.1	363.8	412.0	275.0	185.2	184.1
85°	119.4	110.7	84.4	77.8	55.9	97.5	190.7	273.9	204.9	133.7	137.0
87.5°	43.8	43.8	23.0	16.4	12.1	32.9	51.5	82.2	117.2	69.0	67.9
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)