

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: P940429

Luminaire Tested: **GALN-SB3C-727-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940429
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-SB3C-727-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 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: 20599 lumens
Efficiency: N/A
Efficacy: 138.2 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): 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

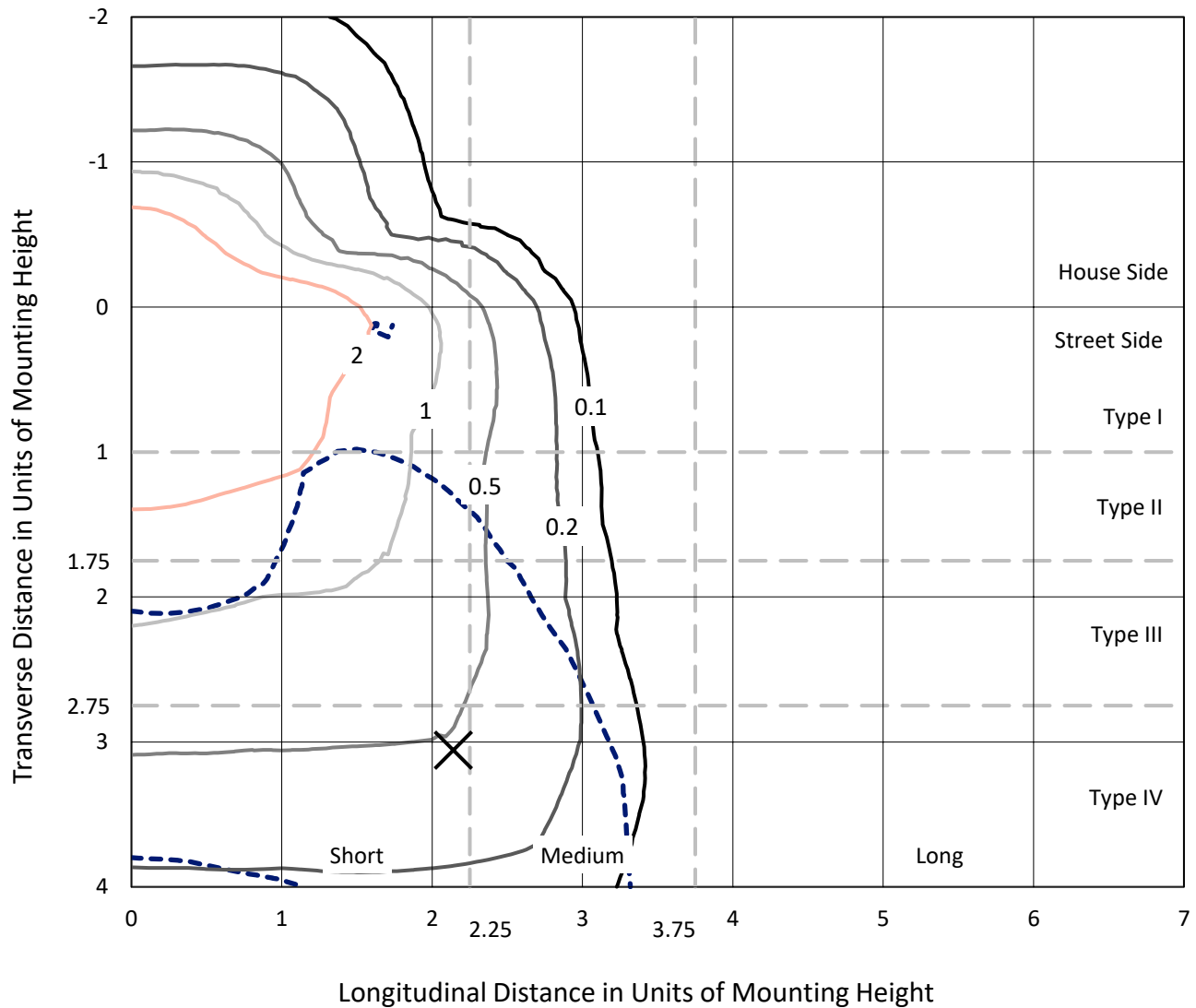


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

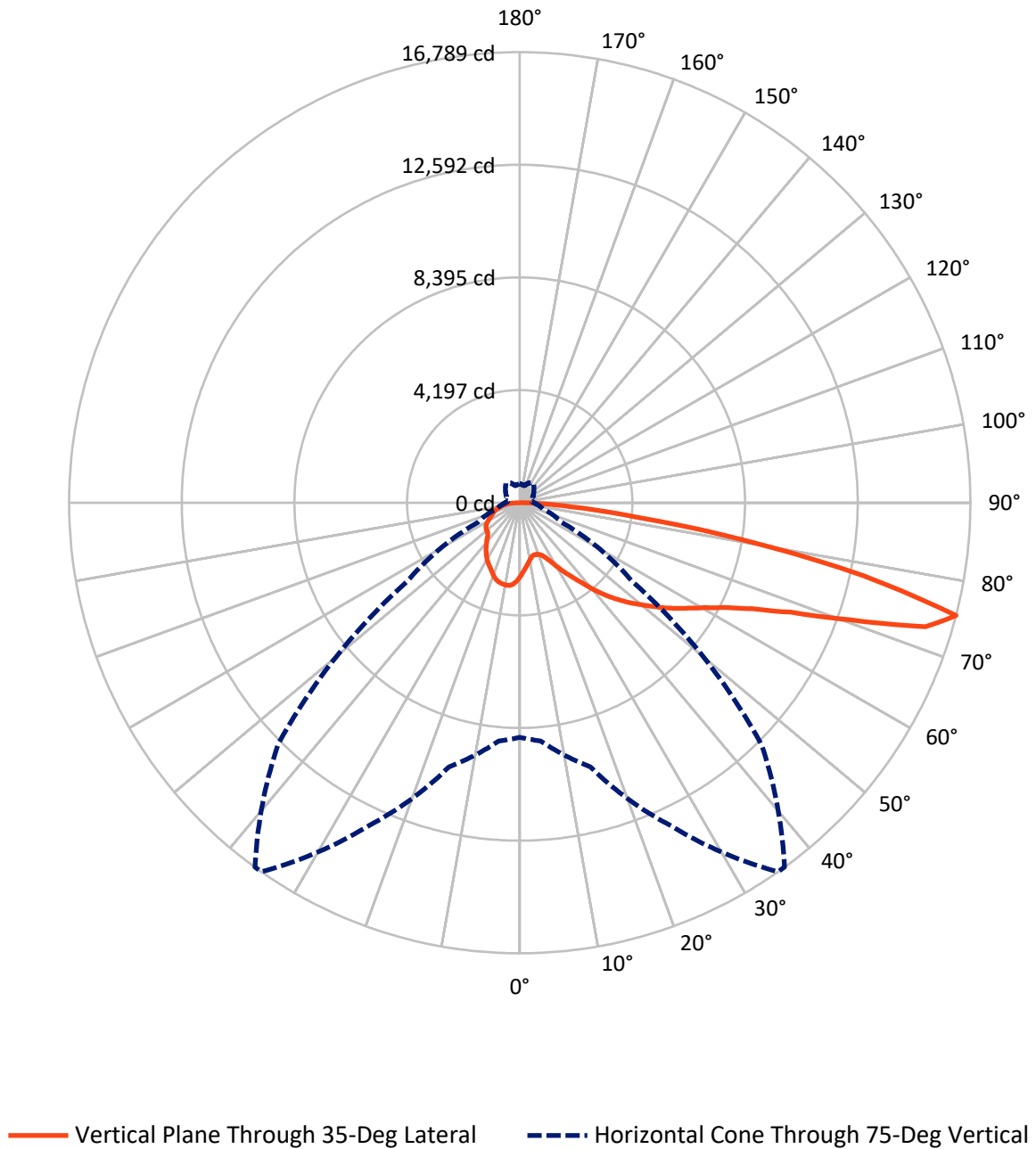


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4902.0	0.0	4902.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	15697.0	0.0	15697.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	20599.0	0.0	20599.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.9	1.3
10°-20°	749.6	3.6
20°-30°	1258.8	6.1
30°-40°	1956.4	9.5
40°-50°	2903.8	14.1
50°-60°	4008.9	19.5
60°-70°	4863.8	23.6
70°-80°	4019.5	19.5
80°-90°	578.1	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°	20599.0	100.0
0°-180°	20599.0	100.0

Coefficient of Utilization



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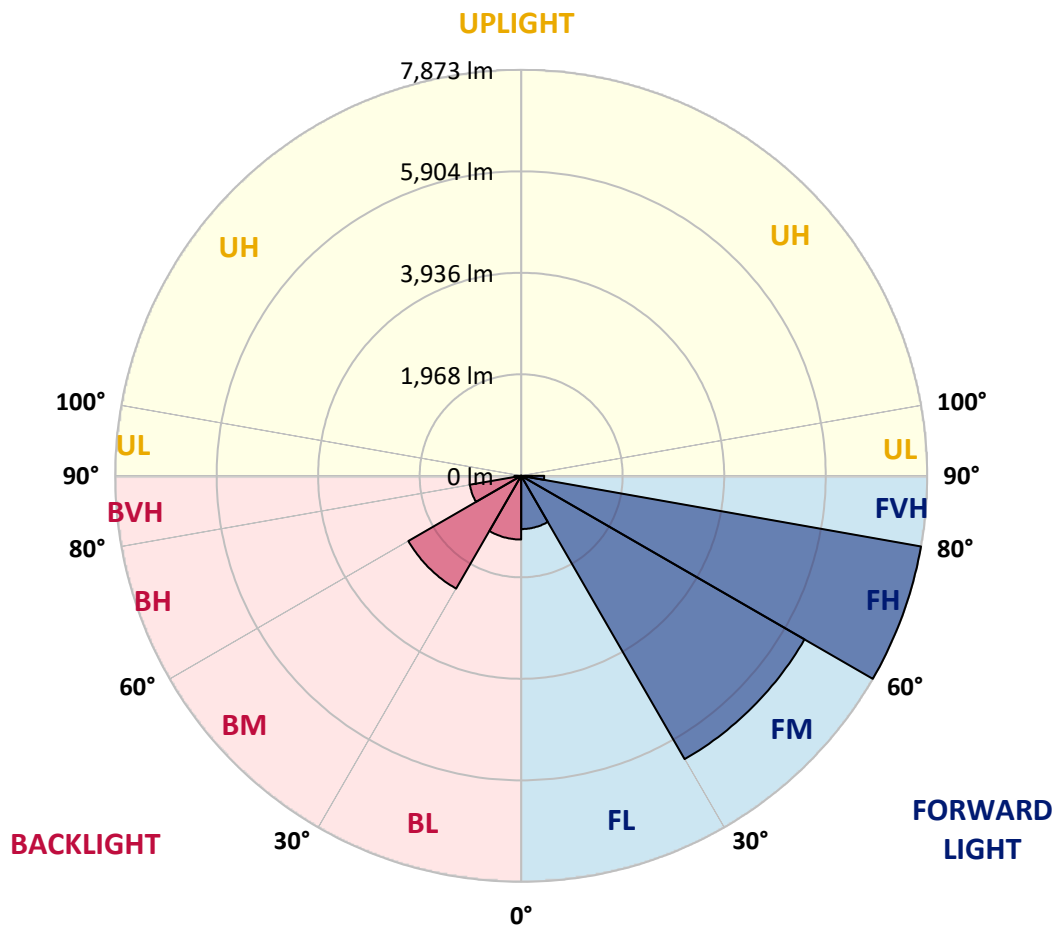
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1033.0	5.0			
FM	(30°-60°)	6343.4	30.8			
FH	(60°-80°)	7872.6	38.2			G4/12000
FVH	(80°-90°)	447.9	2.2			G3/500
BL	(0°-30°)	1235.4	6.0	B3/2500		
BM	(30°-60°)	2525.8	12.3	B3/5000		
BH	(60°-80°)	1010.6	4.9	B3/2500		G3/2500
BVH	(80°-90°)	130.2	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°	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0
2.5°	2531.2	2546.7	2553.4	2550.1	2566.8	2564.6	2587.9	2616.9	2657.0	2696.0	2752.8
5°	2336.3	2353.0	2367.5	2380.8	2413.1	2423.1	2459.9	2515.6	2589.1	2663.7	2757.2
7.5°	2154.8	2169.2	2191.5	2216.0	2270.6	2280.6	2341.8	2428.7	2531.2	2640.3	2769.5
10°	2006.7	2021.1	2044.5	2072.4	2140.3	2152.5	2230.5	2346.3	2479.9	2618.0	2782.8
12.5°	1943.2	1947.6	1961.0	1988.8	2047.9	2055.7	2141.4	2273.9	2429.8	2601.3	2802.9
15°	1939.8	1948.8	1949.9	1964.3	2013.3	2016.7	2095.7	2227.1	2398.6	2598.0	2832.9
17.5°	1973.3	1979.9	1969.9	1978.8	2020.0	2025.6	2087.9	2204.9	2388.6	2612.4	2884.2
20°	2062.3	2067.9	2037.8	2025.6	2055.7	2060.1	2121.4	2219.3	2398.6	2642.5	2954.3
22.5°	2251.6	2255.0	2181.5	2131.4	2133.6	2135.8	2189.3	2278.4	2437.6	2697.1	3043.4
25°	2546.7	2544.5	2427.6	2330.7	2275.0	2262.8	2298.4	2374.1	2503.3	2769.5	3158.1
27.5°	2891.9	2875.2	2758.3	2613.6	2492.2	2474.4	2466.6	2498.9	2596.9	2865.2	3298.4
30°	3281.7	3266.1	3140.3	2951.0	2782.8	2753.9	2680.4	2663.7	2736.0	2995.5	3493.3
32.5°	3709.3	3699.3	3549.0	3319.6	3094.6	3061.2	2937.6	2893.1	2949.9	3192.6	3765.0
35°	4067.9	4059.0	3934.3	3698.2	3423.1	3381.9	3256.1	3206.0	3234.9	3445.4	4120.2
37.5°	4391.9	4387.5	4280.6	4094.6	3810.6	3760.5	3619.1	3602.4	3596.8	3778.4	4551.2
40°	4692.6	4681.5	4570.1	4472.1	4261.6	4216.0	4091.3	4076.8	4034.5	4188.1	5038.9
42.5°	5025.6	4996.6	4835.1	4789.5	4732.7	4694.8	4620.2	4622.4	4528.9	4650.3	5555.6
45°	5297.3	5280.6	5114.6	5087.9	5149.2	5133.6	5198.2	5214.9	5033.3	5134.7	6092.4
47.5°	5589.0	5573.4	5433.1	5414.2	5580.1	5584.6	5812.8	5818.4	5525.5	5638.0	6630.2
50°	5948.7	5926.4	5787.2	5810.6	5996.6	6013.3	6430.9	6393.0	5978.8	6149.1	7163.6
52.5°	6185.9	6199.3	6169.2	6207.1	6460.9	6476.5	7038.9	6942.0	6427.5	6653.6	7687.0
55°	6360.7	6387.5	6481.0	6567.9	6950.9	6966.5	7612.4	7464.3	6799.5	7121.3	8179.2
57.5°	6585.7	6547.8	6722.6	6891.9	7416.4	7457.6	8170.3	7967.6	7129.1	7524.4	8516.6
60°	6908.6	6881.9	7017.7	7268.3	7937.5	8003.2	8760.5	8420.8	7370.7	7844.0	8582.3
62.5°	7563.4	7496.6	7517.7	7739.3	8594.6	8681.4	9426.4	8816.2	7491.0	7968.7	8230.4
65°	8542.2	8427.5	8320.6	8474.3	9519.9	9605.7	10178.1	9126.8	7446.5	7727.1	7296.1
67.5°	9774.9	9661.4	9530.0	9674.7	10882.9	10950.9	11105.7	9301.7	7095.7	6796.1	5644.7
70°	10791.6	10749.3	10906.3	11502.1	13060.0	13062.2	12295.0	9156.9	6134.7	4818.4	3266.1
72.5°	10656.9	10631.3	11458.7	13300.5	15803.8	15744.8	13420.8	8061.2	4132.5	2173.7	1223.8
75°	8742.7	8908.6	10190.3	13268.2	16789.3	16781.5	12731.5	5124.7	1709.3	900.9	632.5
77.5°	4688.1	4950.9	6615.7	9796.1	13106.7	13303.9	8950.9	1792.9	733.8	576.8	437.6
80°	1528.9	1758.3	2636.9	4987.7	8516.6	8479.9	3836.3	703.8	502.2	408.7	302.9
82.5°	649.2	675.9	1178.2	2355.2	4370.8	4302.8	1221.6	404.2	353.0	279.5	187.1
85°	253.9	284.0	520.0	1089.1	1893.1	1851.9	441.0	200.4	226.1	182.6	111.4
87.5°	83.5	101.3	186.0	373.0	589.1	567.9	108.0	69.0	98.0	83.5	40.1
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°	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0	2745.0
2.5°	2768.3	2786.2	2807.3	2838.5	2865.2	2887.5	2910.9	2925.4	2930.9	2947.6	2946.5
5°	2788.4	2827.4	2879.7	2930.9	2981.0	3011.1	3037.8	3051.2	3063.4	3072.3	3074.6
7.5°	2821.8	2871.9	2954.3	3021.1	3063.4	3087.9	3105.8	3101.3	3105.8	3108.0	3111.3
10°	2850.7	2920.9	3018.9	3082.4	3114.7	3115.8	3111.3	3095.7	3087.9	3089.0	3091.3
12.5°	2885.3	2963.2	3069.0	3122.5	3131.4	3106.9	3087.9	3061.2	3051.2	3046.7	3044.5
15°	2932.0	3021.1	3123.6	3143.6	3121.3	3090.2	3057.9	3014.4	2992.2	2974.4	2979.9
17.5°	2988.8	3086.8	3165.9	3151.4	3103.5	3052.3	3000.0	2934.3	2888.6	2869.7	2870.8
20°	3067.9	3155.9	3198.2	3134.7	3062.3	2984.4	2895.3	2815.1	2772.8	2753.9	2751.6
22.5°	3163.7	3248.3	3229.4	3105.8	3003.3	2878.6	2767.2	2708.2	2687.1	2673.7	2675.9
25°	3278.4	3350.7	3251.6	3063.4	2906.4	2738.3	2652.5	2633.6	2623.6	2613.6	2613.6
27.5°	3427.6	3466.6	3268.3	3001.1	2755.0	2589.1	2557.9	2561.2	2557.9	2541.2	2544.5
30°	3624.7	3616.9	3283.9	2899.7	2581.3	2454.3	2456.5	2471.0	2473.2	2462.1	2467.7
32.5°	3884.1	3805.1	3291.7	2768.3	2415.3	2336.3	2338.5	2354.1	2365.2	2346.3	2355.2
35°	4198.2	4024.5	3279.5	2603.5	2287.3	2223.8	2207.1	2211.6	2214.9	2197.1	2209.3
37.5°	4564.5	4270.6	3224.9	2420.9	2181.5	2113.6	2077.9	2047.9	2030.0	2013.3	2024.5
40°	4966.5	4538.9	3124.7	2242.7	2063.4	1996.6	1943.2	1886.4	1826.3	1804.0	1814.0
42.5°	5387.5	4815.1	3003.3	2072.4	1927.6	1873.0	1816.2	1733.8	1643.6	1598.0	1603.5
45°	5824.0	5097.9	2884.2	1904.2	1788.4	1765.0	1699.3	1600.2	1502.2	1444.3	1439.8
47.5°	6251.6	5365.2	2709.3	1734.9	1658.1	1683.7	1632.5	1541.2	1432.1	1340.7	1330.7
50°	6660.3	5615.7	2423.1	1563.5	1552.3	1659.2	1610.2	1478.8	1354.1	1237.2	1227.2
52.5°	7065.6	5818.4	2056.8	1407.6	1495.5	1652.5	1581.3	1436.5	1283.9	1161.5	1148.1
55°	7409.7	5923.1	1703.8	1273.9	1413.1	1595.7	1546.8	1386.4	1184.8	1054.6	1043.4
57.5°	7605.7	5838.5	1409.8	1142.5	1299.5	1502.2	1487.7	1279.5	1066.8	966.6	953.2
60°	7521.1	5495.5	1169.3	1027.8	1191.5	1400.9	1385.3	1173.7	976.6	881.9	868.6
62.5°	7054.5	4841.8	978.8	927.6	1093.5	1297.3	1282.8	1092.4	907.6	816.2	801.8
65°	6114.6	3938.7	830.7	844.1	994.4	1172.6	1193.7	1024.5	853.0	763.9	749.4
67.5°	4663.6	2853.0	714.9	771.7	897.5	1050.1	1111.3	975.5	807.3	722.7	709.3
70°	2658.1	1620.2	616.9	701.6	811.8	936.5	1047.9	936.5	758.3	688.2	679.3
72.5°	1007.8	743.9	533.4	631.4	729.4	840.7	977.7	875.3	701.6	649.2	640.3
75°	537.9	453.2	448.8	549.0	634.7	747.2	889.7	815.1	659.2	686.0	708.2
77.5°	366.4	320.7	375.3	469.9	531.2	643.6	796.2	723.8	571.3	569.0	524.5
80°	253.9	227.2	305.1	378.6	410.9	541.2	694.9	621.4	465.5	434.3	415.4
82.5°	152.6	148.1	228.3	282.8	290.6	417.6	575.7	521.2	380.8	331.8	334.1
85°	83.5	88.0	145.9	165.9	169.3	291.8	451.0	403.1	292.9	246.1	248.3
87.5°	23.4	30.1	53.5	65.7	81.3	151.4	268.4	239.4	147.0	102.4	102.4
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)