

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: P943827

Luminaire Tested: **GALN-SB8C-727-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943827
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-727-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56208 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 399.8
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

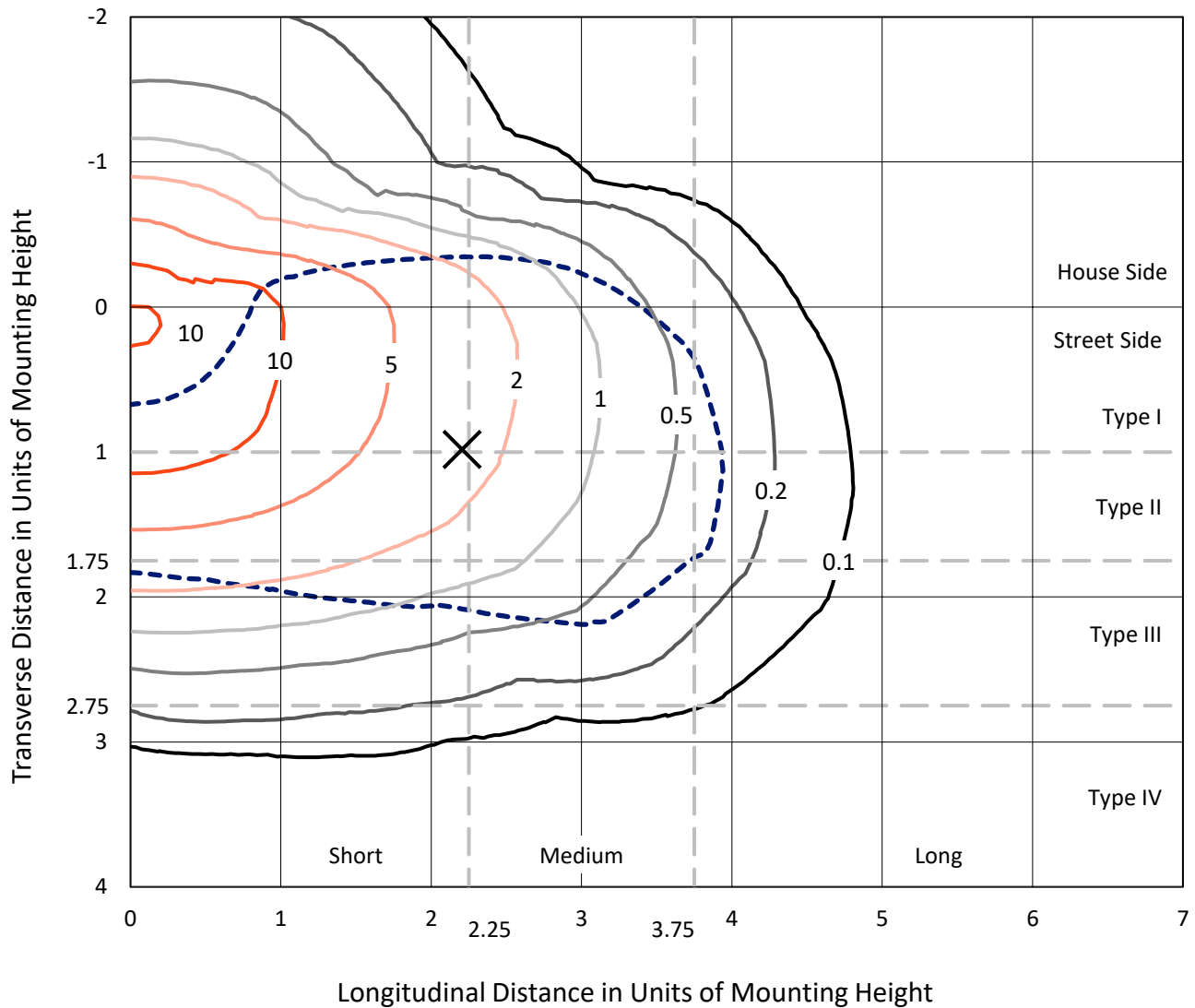


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

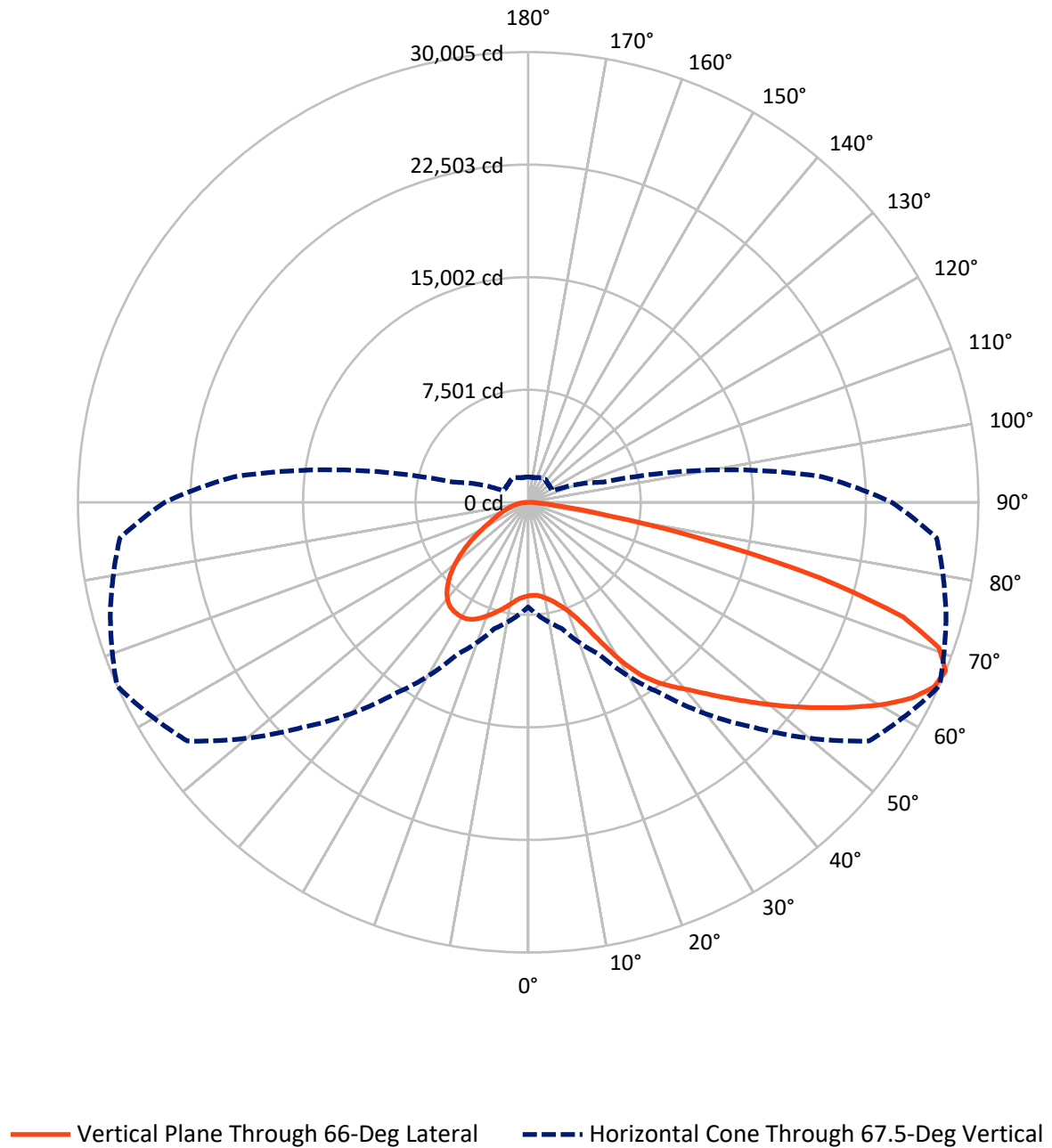


Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13976.0	0.0	13976.0
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	42232.0	0.0	42232.0
	% Fixture	75.1	0.0	75.1
Total	Lumens	56208.0	0.0	56208.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	618.1	1.1
10°-20°	2042.1	3.6
20°-30°	3936.1	7.0
30°-40°	6901.4	12.3
40°-50°	10260.1	18.3
50°-60°	13005.6	23.1
60°-70°	12725.7	22.6
70°-80°	6070.3	10.8
80°-90°	648.8	1.2
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°	56208.0	100.0
0°-180°	56208.0	100.0

Coefficient of Utilization



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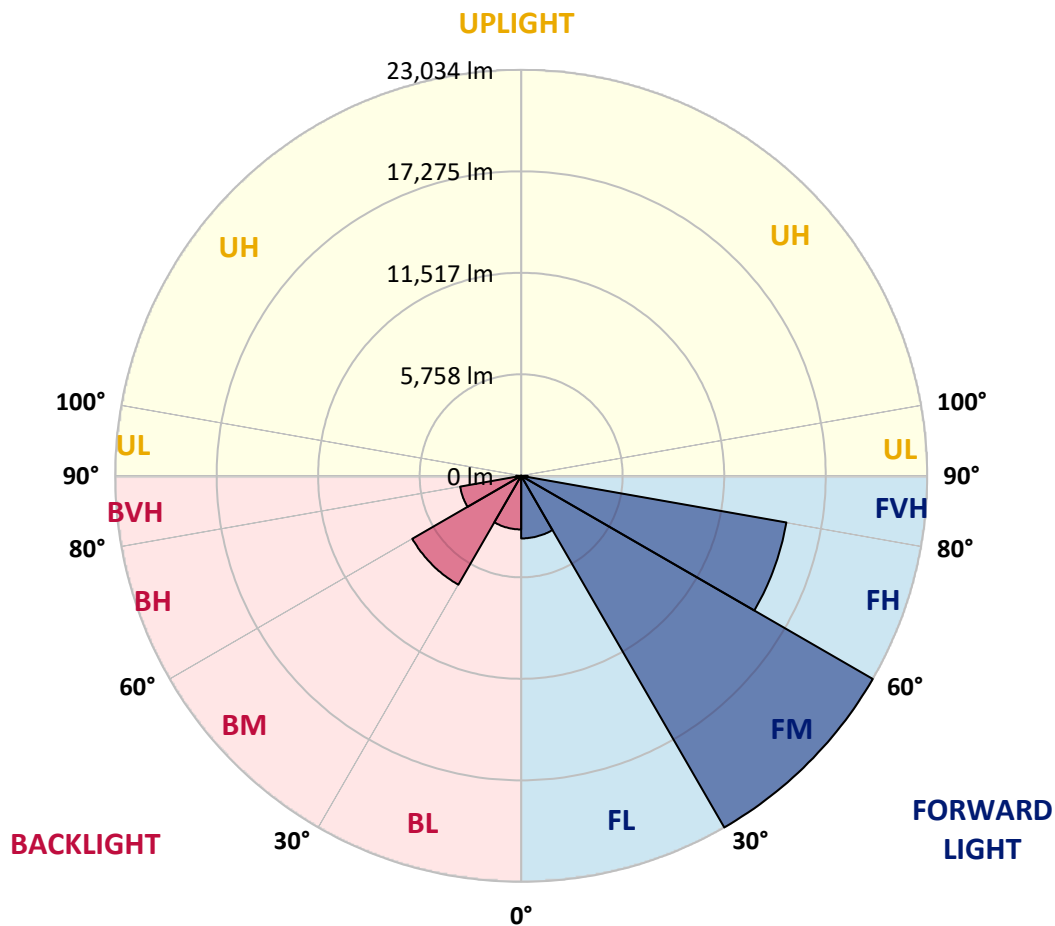
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3551.8	6.3			
FM	(30°-60°)	23033.6	41.0			
FH	(60°-80°)	15278.9	27.2			G5
FVH	(80°-90°)	367.8	0.7			G3/500
BL	(0°-30°)	3044.5	5.4	B4/5000		
BM	(30°-60°)	7133.5	12.7	B4/8500		
BH	(60°-80°)	3517.1	6.3	B4/5000		G4/5000
BVH	(80°-90°)	280.9	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6234.2	6234.2	6234.2	6234.2	6234.2	6234.2	6234.2	6234.2	6234.2	6234.2	6234.2
2.5°	6169.2	6204.7	6195.8	6181.1	6178.1	6184.0	6192.9	6201.7	6198.8	6213.5	6237.2
5°	6151.5	6187.0	6184.0	6184.0	6195.8	6219.4	6234.2	6249.0	6234.2	6251.9	6284.4
7.5°	6163.3	6189.9	6201.7	6213.5	6243.1	6287.4	6322.8	6355.3	6337.6	6358.2	6399.6
10°	6313.9	6334.6	6346.4	6346.4	6367.1	6417.3	6452.7	6511.8	6497.0	6529.5	6582.7
12.5°	6588.6	6609.3	6609.3	6597.5	6612.2	6644.7	6656.5	6721.5	6694.9	6748.1	6801.2
15°	6925.3	6966.6	6934.1	6913.4	6919.4	6951.8	6948.9	6999.1	6972.5	7016.8	7064.1
17.5°	7297.4	7350.5	7297.4	7294.4	7282.6	7318.0	7321.0	7365.3	7318.0	7350.5	7383.0
20°	7737.4	7811.2	7766.9	7781.7	7755.1	7769.9	7784.6	7849.6	7775.8	7799.4	7790.5
22.5°	8357.6	8446.2	8398.9	8455.0	8437.3	8425.5	8422.5	8537.7	8422.5	8431.4	8345.7
25°	9261.2	9367.6	9284.9	9361.7	9361.7	9400.0	9444.3	9592.0	9400.0	9343.9	9122.4
27.5°	10596.1	10702.4	10540.0	10587.2	10572.5	10667.0	10619.7	10985.9	10779.2	10687.6	10241.7
30°	12202.6	12391.6	12084.5	12072.7	12057.9	12208.5	12276.5	12518.6	12308.9	12217.4	11679.9
32.5°	13939.1	14137.0	13770.8	13664.5	13608.4	13699.9	13643.8	13838.7	13694.0	13552.2	12887.8
35°	15776.0	15970.9	15622.4	15415.7	15191.3	14999.3	14798.5	14848.7	14712.9	14497.3	13809.2
37.5°	17512.5	17869.8	17500.7	17279.2	16865.7	16490.7	15929.6	15696.3	15569.3	15371.4	14677.4
40°	19281.5	19485.2	19204.7	19015.7	18566.8	17979.1	17081.3	16588.1	16416.9	16224.9	15637.2
42.5°	20583.8	20778.7	20628.1	20498.2	20146.7	19464.6	18303.9	17686.7	17438.7	17223.1	16724.0
45°	21617.4	21762.1	21667.6	21714.9	21564.3	20902.8	19570.9	18865.1	18608.1	18345.3	17952.5
47.5°	22033.8	22187.4	22338.0	22618.6	22875.5	22388.2	20932.3	20140.8	19869.1	19600.4	19213.5
50°	21986.6	22143.1	22580.2	23176.7	23974.1	23811.7	22367.6	21499.3	21248.3	20941.2	20583.8
52.5°	21608.6	21785.8	22346.9	23339.2	24609.0	24877.8	23829.4	22902.1	22665.8	22299.6	21942.3
55°	20616.3	20722.6	21564.3	22970.0	24759.6	25622.0	25261.7	24396.4	24160.1	23649.2	23259.4
57.5°	18776.5	18930.0	20155.6	21974.8	24381.6	26127.0	26519.8	25967.5	25740.1	25004.8	24597.2
60°	16375.5	16620.6	18023.4	20303.3	23418.9	26124.0	27662.6	27512.0	27323.0	26339.6	25914.4
62.5°	13658.6	13942.1	15291.7	17940.7	21735.6	25382.8	28377.3	28805.5	28708.1	27571.1	27027.7
65°	10489.8	10684.7	12028.4	14884.1	19116.1	23791.0	28460.0	29688.5	29706.3	28507.3	27609.5
67.5°	6984.3	7545.4	8711.9	11169.0	15607.7	21189.2	27733.5	29833.2	30004.5	28829.2	27317.1
70°	3408.0	4146.3	5289.2	7259.0	11169.0	17199.5	25834.6	28646.1	29027.0	27890.0	25574.7
72.5°	1414.6	1653.8	2276.9	3582.2	6411.4	11606.1	22019.1	25427.1	26132.9	24712.4	21502.3
75°	953.9	1033.6	1302.4	1836.9	2920.7	5723.3	15879.4	18959.6	20096.5	18664.2	15256.2
77.5°	735.3	785.6	948.0	1284.6	1736.5	2164.7	8499.3	11425.9	12013.6	11121.8	7938.2
80°	578.8	617.2	708.8	936.2	1231.5	1157.7	2897.1	5177.0	5516.6	4627.7	2551.6
82.5°	502.0	516.8	508.0	634.9	818.0	676.3	950.9	1910.7	2108.6	1529.8	832.8
85°	363.2	404.6	422.3	392.8	434.1	342.6	389.8	676.3	744.2	664.5	469.6
87.5°	147.7	218.5	268.7	254.0	159.5	97.5	121.1	197.9	227.4	248.1	153.6
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°	6234.2	6234.2	6234.2	6234.2	6234.2	6234.2	6234.2	6234.2	6234.2	6234.2	6234.2
2.5°	6240.1	6260.8	6275.6	6293.3	6305.1	6322.8	6358.2	6378.9	6381.9	6396.6	6393.7
5°	6296.2	6325.8	6358.2	6405.5	6458.7	6503.0	6570.9	6618.1	6635.8	6650.6	6647.7
7.5°	6417.3	6458.7	6517.7	6600.4	6677.2	6736.3	6818.9	6875.1	6931.2	6951.8	6954.8
10°	6597.5	6656.5	6742.2	6854.4	6937.1	7013.9	7099.5	7146.7	7202.9	7226.5	7238.3
12.5°	6821.9	6883.9	6996.1	7152.7	7229.4	7282.6	7312.1	7300.3	7312.1	7332.8	7338.7
15°	7078.8	7146.7	7273.7	7442.1	7495.2	7448.0	7383.0	7323.9	7315.1	7321.0	7341.7
17.5°	7383.0	7433.2	7580.9	7722.6	7684.2	7489.3	7347.6	7253.1	7205.8	7191.0	7211.7
20°	7808.3	7808.3	7929.3	8017.9	7761.0	7430.3	7208.8	7055.2	6957.7	6916.4	6907.5
22.5°	8325.1	8277.8	8354.6	8292.6	7746.2	7264.9	6957.7	6692.0	6544.3	6485.2	6476.4
25°	8980.7	8924.6	8903.9	8520.0	7639.9	7002.0	6503.0	6181.1	6051.1	6018.6	6024.5
27.5°	9970.0	9828.3	9559.5	8644.0	7445.0	6588.6	5971.4	5673.1	5599.3	5602.2	5611.1
30°	11287.1	11003.6	10345.1	8664.7	7126.1	6003.9	5428.0	5215.4	5179.9	5194.7	5244.9
32.5°	12506.8	12238.1	11148.3	8570.2	6635.8	5430.9	4940.7	4799.0	4745.8	4763.5	4787.1
35°	13463.6	13389.8	11892.5	8437.3	6033.4	4893.5	4503.6	4382.6	4279.2	4255.6	4273.3
37.5°	14367.3	14337.8	12450.7	8251.2	5436.8	4512.5	4152.2	3992.7	3842.1	3759.4	3762.4
40°	15359.6	15330.1	12816.9	7964.8	4908.2	4181.7	3836.2	3626.5	3440.5	3289.9	3304.6
42.5°	16475.9	16301.7	12991.1	7554.3	4459.3	3901.2	3579.3	3295.8	3050.7	2911.9	2920.7
45°	17695.6	17302.8	12988.2	7031.6	4081.3	3644.3	3304.6	2903.0	2675.6	2545.7	2539.8
47.5°	18989.1	18259.6	12828.7	6452.7	3715.1	3360.7	2879.4	2572.2	2421.6	2341.9	2324.2
50°	20323.9	19154.5	12557.0	5788.3	3340.1	3038.8	2613.6	2403.9	2288.7	2214.9	2188.3
52.5°	21579.0	19966.6	12229.2	5035.2	2959.1	2725.8	2495.5	2333.0	2211.9	2129.3	2093.8
55°	22745.6	20666.5	11765.6	4264.4	2649.0	2516.1	2439.3	2303.5	2164.7	2067.2	2028.8
57.5°	23782.1	21121.3	10965.2	3540.9	2427.5	2371.4	2380.3	2253.3	2093.8	2011.1	1958.0
60°	24644.5	21455.0	9781.0	2870.5	2247.4	2229.7	2288.7	2158.8	1972.7	1878.2	1836.9
62.5°	25161.3	21449.1	8328.0	2350.7	2093.8	2099.7	2167.7	2040.7	1851.7	1763.1	1736.5
65°	25117.0	20923.4	6733.3	2011.1	1946.2	1952.1	2040.7	1910.7	1751.2	1698.1	1695.1
67.5°	24228.1	19641.7	5165.2	1789.6	1783.7	1810.3	1913.7	1822.1	1689.2	1683.3	1692.2
70°	21821.2	16980.9	3721.0	1612.4	1615.4	1653.8	1789.6	1766.0	1656.7	1668.6	1665.6
72.5°	17497.7	12946.8	2498.4	1426.4	1429.3	1491.4	1671.5	1721.7	1624.3	1780.8	1804.4
75°	11653.3	8074.1	1606.5	1228.5	1231.5	1311.2	1568.2	1636.1	1535.7	1774.9	1789.6
77.5°	5599.3	3629.5	1163.6	1033.6	1033.6	1107.5	1355.5	1464.8	1308.3	1379.1	1264.0
80°	1934.3	1364.4	915.5	832.8	815.1	865.3	1142.9	1269.9	1128.1	1039.5	974.6
82.5°	761.9	708.8	735.3	646.8	587.7	620.2	888.9	1048.4	829.8	750.1	747.2
85°	437.1	460.7	519.8	428.2	339.6	381.0	652.7	753.1	626.1	552.2	564.1
87.5°	118.1	162.4	239.2	221.5	153.6	162.4	310.1	416.4	360.3	277.6	286.5
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)