

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: P956629

Luminaire Tested: **GALN-SB9B-722-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956629
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-SB9B-722-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43497 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 329.5
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



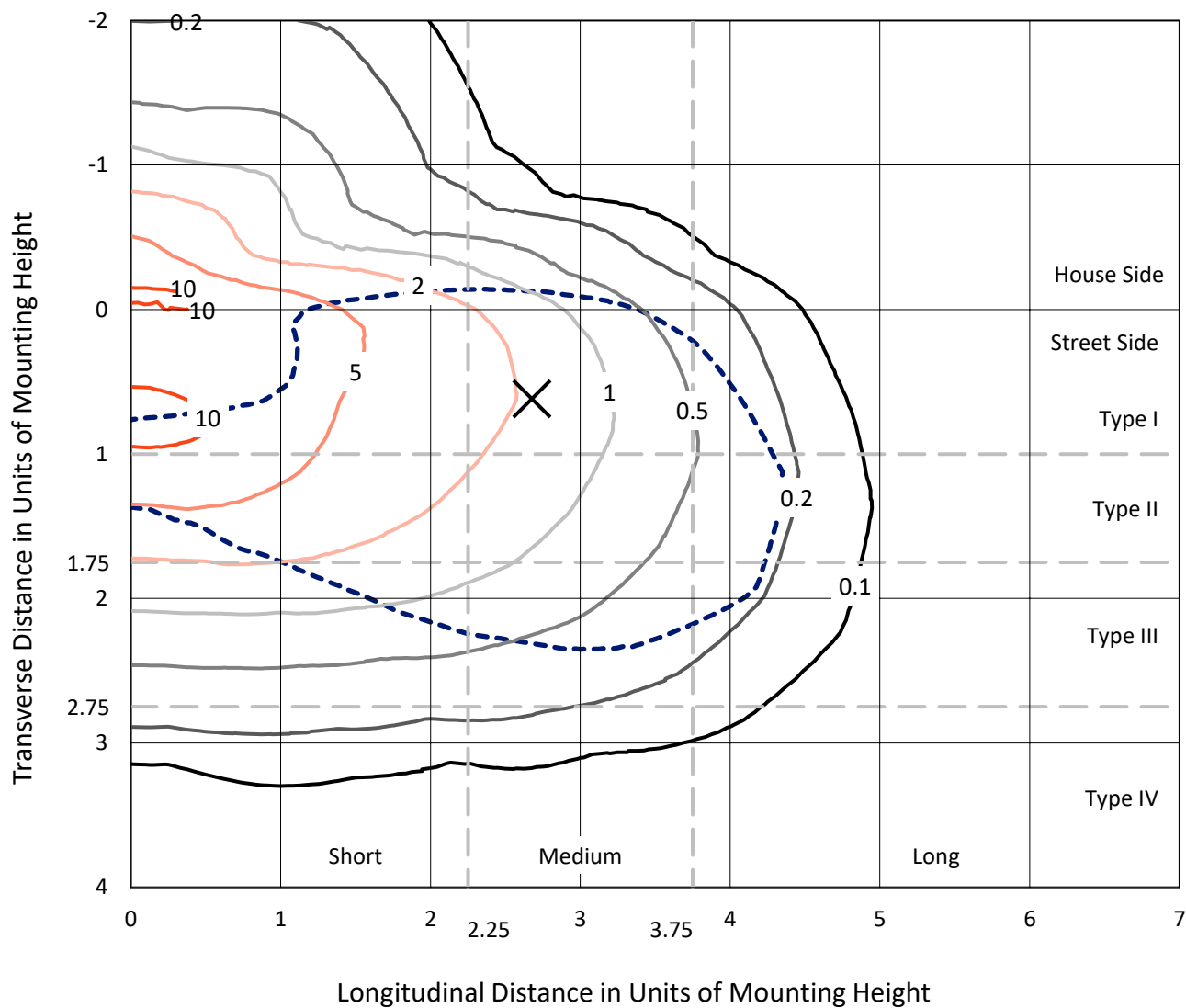
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

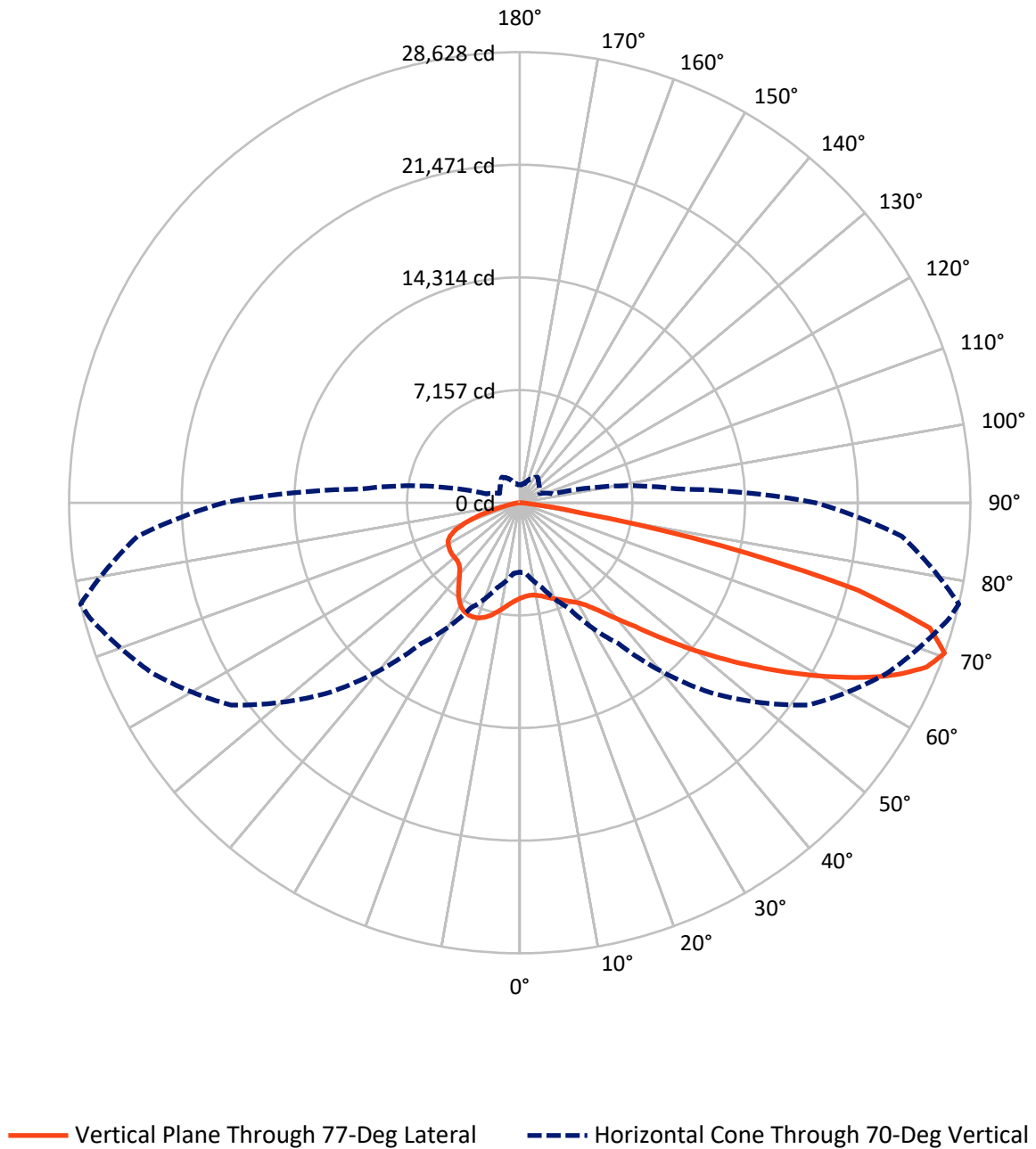


Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9525.2	0.0	9525.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	33971.8	0.0	33971.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	43497.0	0.0	43497.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.7	1.3
10°-20°	1670.3	3.8
20°-30°	2856.5	6.6
30°-40°	4593.5	10.6
40°-50°	7171.7	16.5
50°-60°	9579.6	22.0
60°-70°	10210.4	23.5
70°-80°	6285.5	14.5
80°-90°	550.8	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°	43497.0	100.0
0°-180°	43497.0	100.0

Coefficient of Utilization



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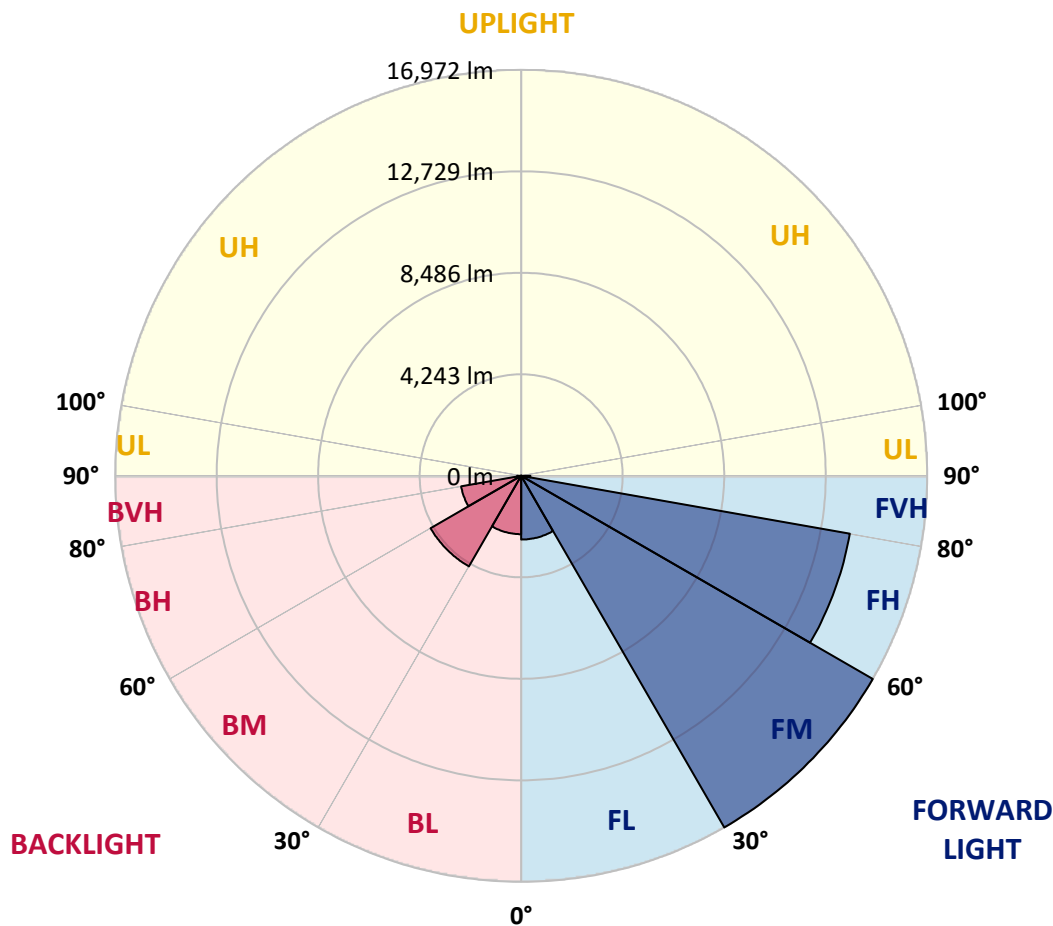
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2664.9	6.1			
FM	(30°-60°)	16971.6	39.0			
FH	(60°-80°)	13950.2	32.1			G5
FVH	(80°-90°)	385.1	0.9			G3/500
BL	(0°-30°)	2440.6	5.6	B3/2500		
BM	(30°-60°)	4373.2	10.1	B3/5000		
BH	(60°-80°)	2545.7	5.9	B4/5000		G4/5000
BVH	(80°-90°)	165.6	0.4			G2/225
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	6068.2	6068.2	6068.2	6068.2	6068.2	6068.2	6068.2	6068.2	6068.2	6068.2	6068.2
2.5°	5593.7	5591.5	5620.5	5629.4	5682.8	5720.7	5792.0	5867.7	5965.8	5976.9	6037.0
5°	5270.7	5270.7	5304.1	5339.8	5408.8	5484.6	5593.7	5725.2	5894.5	5921.2	6070.5
7.5°	4996.7	5014.5	5043.5	5112.5	5192.7	5301.9	5469.0	5656.1	5878.9	5921.2	6161.8
10°	4776.2	4796.2	4831.9	4887.6	5007.8	5159.3	5377.6	5618.2	5916.7	5983.6	6295.5
12.5°	4707.1	4727.2	4747.2	4789.5	4900.9	5079.1	5339.8	5636.1	6008.1	6074.9	6478.1
15°	4867.5	4892.0	4876.4	4865.3	4923.2	5085.8	5357.6	5700.7	6121.7	6217.5	6703.1
17.5°	5237.3	5246.2	5210.6	5105.9	5097.0	5183.8	5442.2	5789.8	6264.3	6369.0	6930.3
20°	5834.3	5818.7	5745.2	5538.0	5420.0	5402.1	5587.0	5923.4	6411.3	6522.7	7175.4
22.5°	6645.2	6627.4	6480.4	6152.9	5890.0	5716.3	5796.5	6097.2	6576.1	6700.9	7413.8
25°	7656.6	7632.1	7416.0	6970.4	6562.8	6132.8	6081.6	6326.6	6778.9	6894.7	7663.3
27.5°	8837.2	8817.2	8583.3	7995.2	7407.1	6703.1	6435.8	6596.2	6990.5	7121.9	7943.9
30°	10107.0	10165.0	9750.6	9117.9	8373.9	7447.2	6912.5	6928.1	7264.5	7382.6	8284.8
32.5°	11599.6	11699.8	11200.8	10398.9	9383.0	8255.8	7514.0	7391.5	7663.3	7761.3	8714.7
35°	13078.8	13192.4	12778.0	11891.4	10721.9	9209.3	8142.2	7923.9	8193.4	8300.4	9285.0
37.5°	14357.5	14508.9	14295.1	13524.3	12154.3	10358.8	8962.0	8549.9	8846.2	8979.8	10051.3
40°	15366.6	15598.3	15582.7	15101.5	13842.9	11753.3	10002.3	9322.9	9657.0	9801.8	10980.3
42.5°	16186.4	16386.9	16560.6	16536.1	15605.0	13337.2	11225.3	10327.6	10581.5	10748.6	12025.1
45°	16752.2	16966.1	17340.3	17743.6	17300.2	15032.5	12626.5	11519.4	11751.1	12002.8	13270.4
47.5°	17257.9	17500.7	17986.4	18625.7	18739.3	16734.4	14161.4	12907.2	13118.9	13379.5	14520.1
50°	17302.5	17511.9	18264.8	19171.5	19761.8	18369.5	15809.9	14464.4	14662.7	14941.1	15858.9
52.5°	16226.5	16556.2	17870.5	19155.9	20231.9	19737.3	17447.3	16083.9	16306.7	16640.8	17244.6
55°	12595.4	13078.8	16714.4	18558.9	20064.8	20621.7	19004.4	17805.9	18091.1	18440.8	18639.1
57.5°	10848.9	11060.5	13268.1	17471.8	19302.9	20851.2	20318.8	19545.8	20004.7	20387.8	20113.8
60°	9750.6	9926.6	11232.0	15781.0	18300.5	20488.1	21334.6	21167.5	21960.6	22417.2	21622.0
62.5°	8574.4	8741.5	9928.8	13176.8	17017.3	19884.4	21976.2	22664.5	23965.5	24464.5	23043.2
65°	7407.1	7549.6	8688.0	11071.6	15386.7	19280.7	22308.1	23958.8	25821.2	26338.0	24223.9
67.5°	6106.1	6224.2	7300.1	9340.7	13404.0	18454.2	22472.9	24976.9	27436.2	27879.5	24807.6
70°	4406.4	4497.7	5609.3	7387.0	10915.7	17032.9	22406.1	25698.6	28273.8	28628.0	24366.5
72.5°	2082.9	2165.3	3470.7	4796.2	7710.0	14266.1	21053.9	25126.1	27422.9	27246.9	21666.5
75°	1111.6	1182.9	1993.8	2630.9	4072.2	9779.6	17229.0	21644.2	23027.6	22172.2	16012.6
77.5°	753.0	808.7	1234.1	1579.4	1860.1	4642.5	11073.8	14985.7	14417.6	13005.3	8019.7
80°	597.0	654.9	1011.4	1069.3	900.0	1677.5	4575.7	6937.0	4983.3	3985.3	2281.2
82.5°	458.9	523.5	851.0	775.2	490.1	688.4	1332.2	2194.3	1276.5	971.3	552.5
85°	280.7	349.7	668.3	494.5	276.2	314.1	452.2	610.4	389.8	325.2	198.3
87.5°	142.6	200.5	338.6	180.4	124.8	73.5	120.3	120.3	102.5	89.1	51.2
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°	6068.2	6068.2	6068.2	6068.2	6068.2	6068.2	6068.2	6068.2	6068.2	6068.2	6068.2
2.5°	6090.5	6135.1	6210.8	6282.1	6337.8	6391.2	6444.7	6473.7	6482.6	6518.2	6538.3
5°	6161.8	6244.2	6391.2	6529.4	6616.2	6669.7	6707.6	6729.9	6734.3	6745.4	6763.3
7.5°	6293.2	6424.7	6629.6	6767.7	6832.3	6827.9	6812.3	6756.6	6734.3	6714.3	6718.7
10°	6478.1	6651.9	6903.6	6999.4	6959.3	6852.4	6714.3	6551.6	6475.9	6402.4	6380.1
12.5°	6707.6	6928.1	7175.4	7170.9	6972.7	6698.7	6377.9	6128.4	5970.2	5856.6	5829.9
15°	6986.0	7240.0	7429.3	7277.9	6843.5	6351.1	5881.1	5555.9	5413.3	5288.5	5275.2
17.5°	7273.4	7545.2	7632.1	7244.4	6518.2	5836.5	5304.1	5047.9	4907.6	4840.8	4860.8
20°	7554.1	7823.6	7752.4	7052.9	6023.7	5252.9	4778.4	4638.1	4609.1	4624.7	4618.0
22.5°	7850.4	8091.0	7776.9	6683.1	5393.2	4655.9	4395.2	4399.7	4464.3	4511.1	4522.2
25°	8153.3	8316.0	7712.3	6148.4	4716.0	4217.0	4152.4	4223.7	4350.7	4442.0	4466.5
27.5°	8445.2	8516.5	7571.9	5486.8	4134.6	3902.9	3914.1	4061.1	4252.7	4379.6	4410.8
30°	8774.9	8694.7	7302.4	4742.8	3731.4	3633.4	3726.9	3898.5	4090.0	4203.7	4230.4
32.5°	9146.9	8848.4	6874.7	4054.4	3446.2	3417.3	3571.0	3682.4	3767.0	3800.4	3818.3
35°	9610.3	9064.5	6326.6	3571.0	3190.1	3259.1	3406.1	3350.4	3317.0	3299.2	3317.0
37.5°	10211.7	9356.3	5685.1	3256.9	2982.9	3145.5	3205.6	3031.9	2900.5	2835.8	2851.4
40°	10935.7	9784.0	5068.0	3014.1	2851.4	3047.5	2942.8	2733.4	2566.3	2475.0	2481.6
42.5°	11739.9	10231.8	4548.9	2831.4	2777.9	2967.3	2749.0	2499.5	2229.9	2201.0	2229.9
45°	12584.2	10692.9	4194.7	2691.0	2742.3	2898.2	2637.6	2234.4	2042.8	2160.9	2223.2
47.5°	13428.5	11116.2	3980.9	2586.3	2724.5	2820.3	2539.6	2087.3	1951.5	2123.0	2203.2
50°	14368.6	11494.9	3885.1	2510.6	2704.4	2789.1	2392.5	2049.5	1855.7	1969.3	2053.9
52.5°	15302.0	11788.9	3813.8	2434.9	2675.5	2764.6	2321.3	2004.9	1739.8	1746.5	1793.3
55°	16233.2	11980.5	3735.8	2334.6	2610.9	2711.1	2314.6	1955.9	1652.9	1621.8	1644.0
57.5°	17226.7	12089.7	3640.0	2223.2	2499.5	2575.2	2307.9	1918.0	1626.2	1575.0	1581.7
60°	18238.1	12250.1	3515.3	2087.3	2350.2	2412.6	2292.3	1904.7	1610.6	1523.7	1530.4
62.5°	19144.8	12305.8	3366.0	1958.1	2158.6	2252.2	2258.9	1893.5	1568.3	1419.0	1419.0
65°	19739.6	12065.2	3105.4	1811.1	1951.5	2087.3	2194.3	1855.7	1492.6	1343.3	1343.3
67.5°	19715.1	11379.0	2697.7	1621.8	1751.0	1904.7	2100.7	1791.1	1401.2	1249.7	1256.4
70°	18797.3	10024.6	2180.9	1401.2	1530.4	1708.6	1980.4	1695.3	1292.1	1147.3	1160.6
72.5°	16121.8	7845.9	1583.9	1142.8	1274.2	1505.9	1824.5	1579.4	1180.7	1055.9	1049.2
75°	11517.2	4965.5	1073.7	877.7	991.3	1276.5	1630.7	1443.5	1078.2	1060.4	1000.2
77.5°	5883.3	2372.5	710.6	641.6	690.6	1006.9	1370.0	1289.8	1093.8	875.5	779.7
80°	1913.6	875.5	447.8	436.6	458.9	670.5	1060.4	1058.2	828.7	594.8	525.7
82.5°	610.4	376.5	291.8	280.7	269.6	421.0	739.6	837.6	559.2	376.5	374.3
85°	242.8	225.0	171.5	158.2	113.6	198.3	387.6	556.9	416.6	271.8	278.5
87.5°	89.1	89.1	46.8	33.4	24.5	66.8	104.7	167.1	238.4	140.3	138.1
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)