

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: P951631

Luminaire Tested: **GALN-SB5D-722-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951631
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-SB5D-722-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43593 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 364.9
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



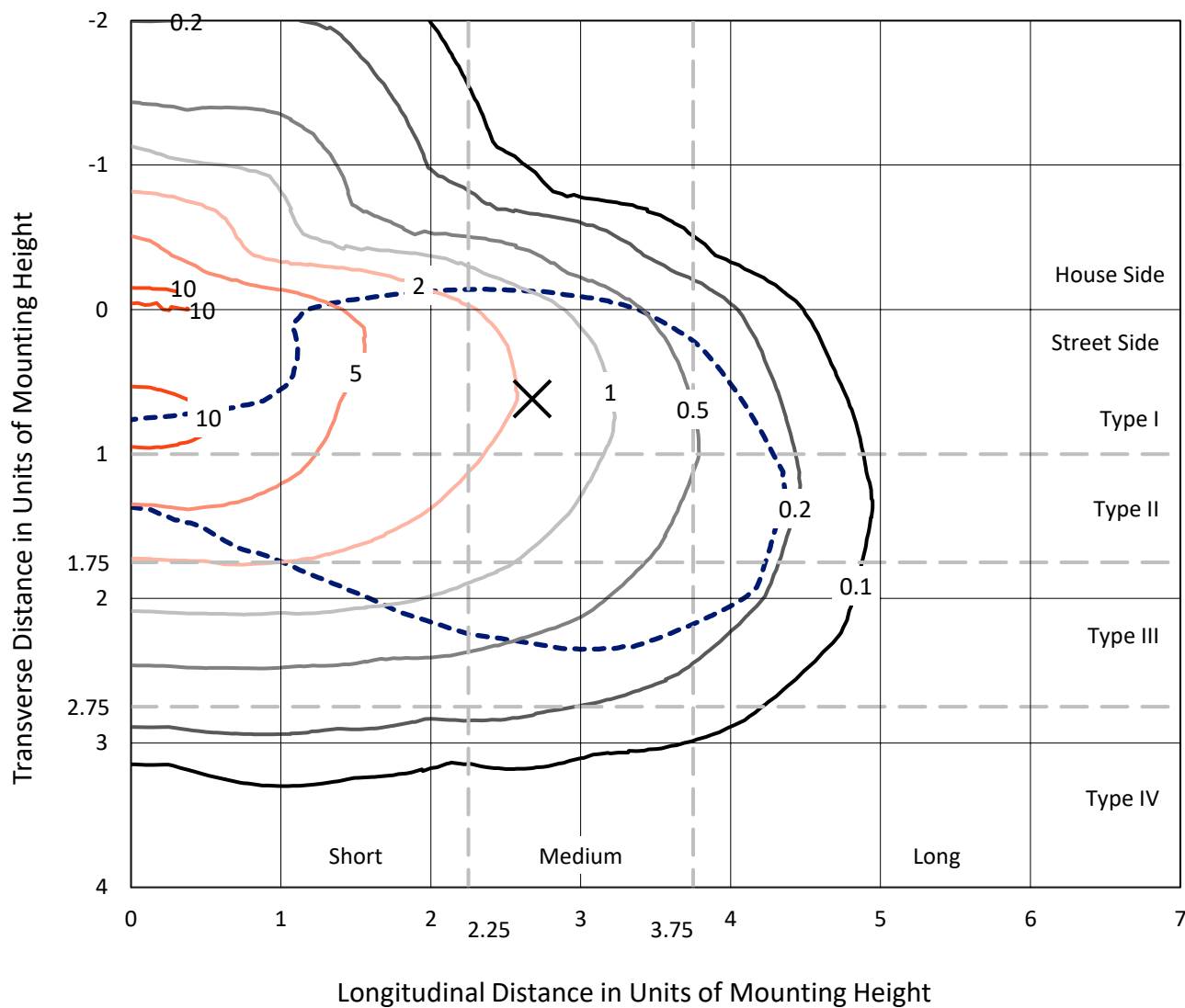
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Iso-Footcandle Lines of Horizontal Illumination

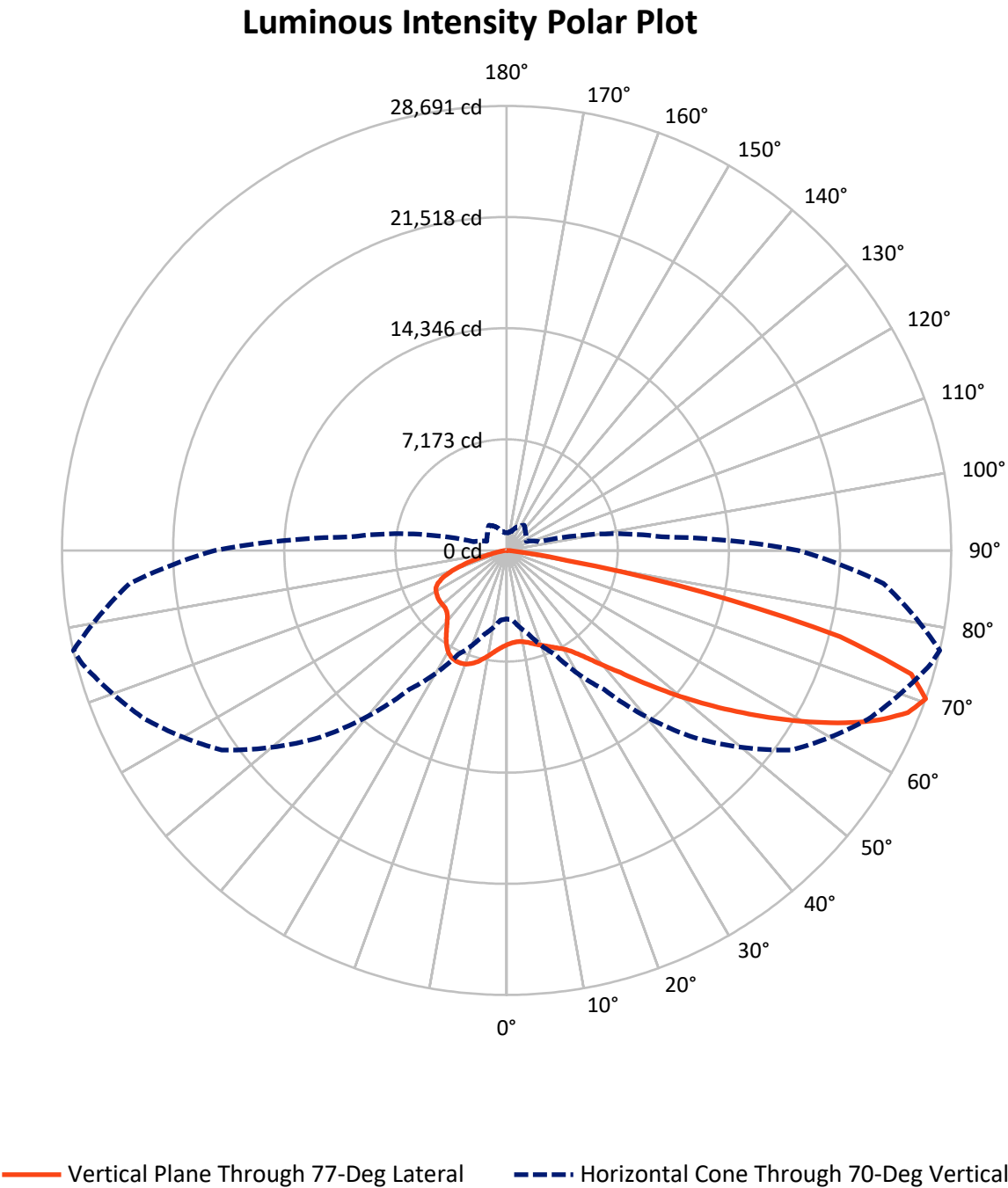
✕ Max cd

--- 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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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9546.2	0.0	9546.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	34046.8	0.0	34046.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	43593.0	0.0	43593.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.0	1.3
10°-20°	1674.0	3.8
20°-30°	2862.8	6.6
30°-40°	4603.6	10.6
40°-50°	7187.5	16.5
50°-60°	9600.8	22.0
60°-70°	10232.9	23.5
70°-80°	6299.3	14.5
80°-90°	552.0	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°	43593.0	100.0
0°-180°	43593.0	100.0

Coefficient of Utilization



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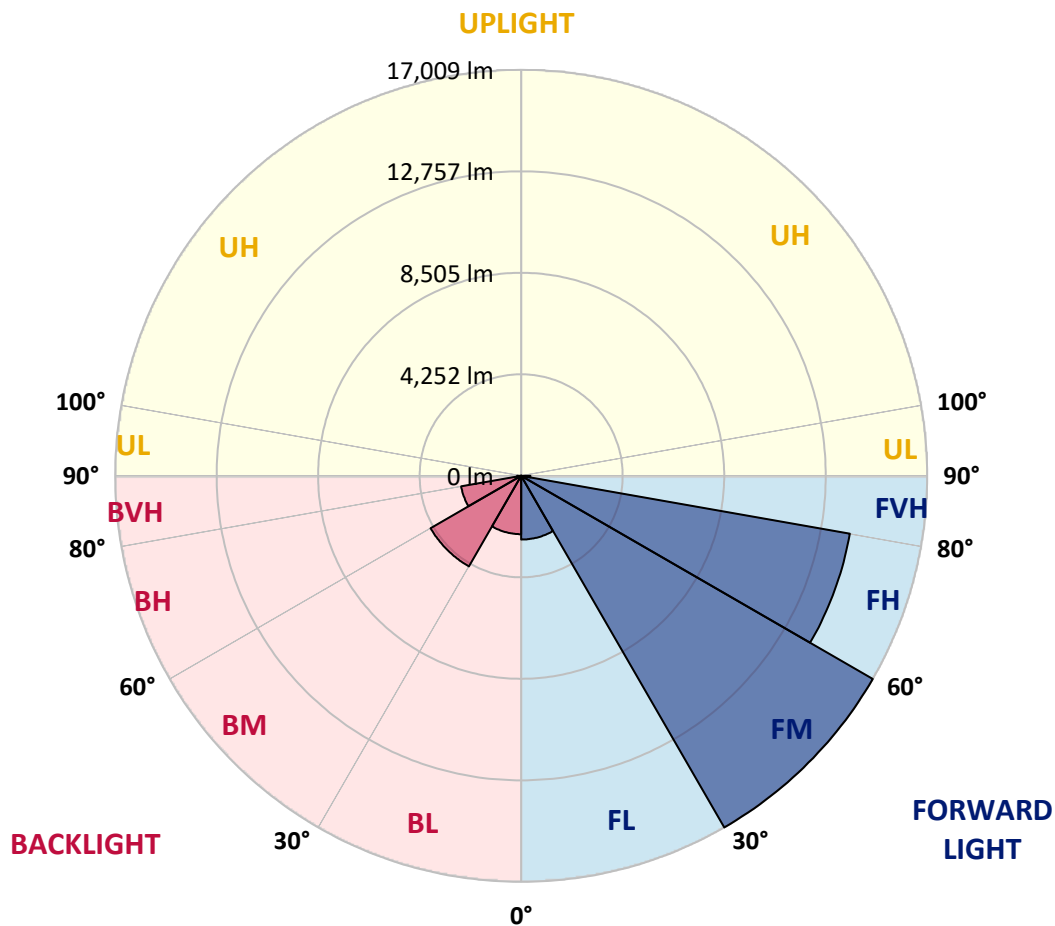
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2670.8	6.1			
FM	(30°-60°)	17009.0	39.0			
FH	(60°-80°)	13981.0	32.1			G5
FVH	(80°-90°)	386.0	0.9			G3/500
BL	(0°-30°)	2446.0	5.6	B3/2500		
BM	(30°-60°)	4382.9	10.1	B3/5000		
BH	(60°-80°)	2551.3	5.9	B4/5000		G4/5000
BVH	(80°-90°)	166.0	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°	6081.6	6081.6	6081.6	6081.6	6081.6	6081.6	6081.6	6081.6	6081.6	6081.6	6081.6
2.5°	5606.1	5603.8	5632.9	5641.8	5695.4	5733.3	5804.8	5880.7	5978.9	5990.1	6050.4
5°	5282.3	5282.3	5315.8	5351.6	5420.8	5496.7	5606.1	5737.8	5907.5	5934.3	6083.9
7.5°	5007.7	5025.6	5054.6	5123.8	5204.2	5313.6	5481.0	5668.6	5891.8	5934.3	6175.4
10°	4786.7	4806.8	4842.5	4898.3	5018.9	5170.7	5389.5	5630.6	5929.8	5996.8	6309.3
12.5°	4717.5	4737.6	4757.7	4800.1	4911.7	5090.3	5351.6	5648.5	6021.3	6088.3	6492.4
15°	4878.2	4902.8	4887.2	4876.0	4934.1	5097.0	5369.4	5713.2	6135.2	6231.2	6717.9
17.5°	5248.9	5257.8	5222.1	5117.1	5108.2	5195.3	5454.3	5802.5	6278.1	6383.0	6945.6
20°	5847.2	5831.6	5757.9	5550.3	5431.9	5414.1	5599.4	5936.5	6425.4	6537.1	7191.2
22.5°	6659.9	6642.0	6494.7	6166.5	5903.0	5728.9	5809.2	6110.6	6590.7	6715.7	7430.1
25°	7673.5	7648.9	7432.3	6985.8	6577.3	6146.4	6095.0	6340.6	6793.8	6909.9	7680.2
27.5°	8856.8	8836.7	8602.2	8012.8	7423.4	6717.9	6450.0	6610.7	7005.9	7137.6	7961.5
30°	10129.3	10187.4	9772.1	9138.1	8392.4	7463.6	6927.8	6943.4	7280.5	7398.9	8303.1
32.5°	11625.2	11725.7	11225.5	10421.8	9403.7	8274.0	7530.6	7407.8	7680.2	7778.4	8734.0
35°	13107.6	13221.5	12806.2	11917.7	10745.5	9229.6	8160.2	7941.4	8211.5	8318.7	9305.5
37.5°	14389.2	14541.0	14326.6	13554.2	12181.1	10381.6	8981.8	8568.7	8865.7	8999.6	10073.5
40°	15400.5	15632.7	15617.1	15134.8	13873.4	11779.2	10024.4	9343.5	9678.4	9823.5	11004.5
42.5°	16222.1	16423.1	16597.2	16572.6	15639.4	13366.6	11250.1	10350.4	10604.9	10772.3	12051.6
45°	16789.2	17003.5	17378.6	17782.7	17338.4	15065.6	12654.4	11544.8	11777.0	12029.3	13299.6
47.5°	17296.0	17539.4	18026.1	18666.8	18780.7	16771.3	14192.7	12935.7	13147.8	13409.0	14552.1
50°	17340.7	17550.5	18305.1	19213.8	19805.5	18410.1	15844.8	14496.3	14695.0	14974.1	15893.9
52.5°	16262.3	16592.7	17910.0	19198.2	20276.5	19780.9	17485.8	16119.4	16342.7	16677.6	17282.6
55°	12623.2	13107.6	16751.2	18599.8	20109.1	20667.2	19046.4	17845.2	18131.0	18481.5	18680.2
57.5°	10872.8	11084.9	13297.4	17510.3	19345.5	20897.2	20363.6	19588.9	20048.8	20432.8	20158.2
60°	9772.1	9948.5	11256.8	15815.8	18340.9	20533.3	21381.7	21214.2	22009.0	22466.7	21669.7
62.5°	8593.3	8760.7	9950.7	13205.9	17054.9	19928.2	22024.7	22714.5	24018.4	24518.5	23094.1
65°	7423.4	7566.3	8707.2	11096.1	15420.6	19323.2	22357.3	24011.7	25878.1	26396.1	24277.4
67.5°	6119.6	6237.9	7316.3	9361.3	13433.6	18494.9	22522.5	25032.0	27496.8	27941.1	24862.3
70°	4416.1	4507.6	5621.7	7403.3	10939.8	17070.5	22455.6	25755.4	28336.2	28691.2	24420.3
72.5°	2087.5	2170.1	3478.4	4806.8	7727.1	14297.6	21100.4	25181.6	27483.4	27307.0	21714.3
75°	1114.1	1185.5	1998.2	2636.7	4081.2	9801.1	17267.0	21692.0	23078.5	22221.1	16048.0
77.5°	754.6	810.4	1236.9	1582.9	1864.2	4652.8	11098.3	15018.7	14449.4	13034.0	8037.4
80°	598.3	656.4	1013.6	1071.7	902.0	1681.2	4585.8	6952.3	4994.3	3994.1	2286.2
82.5°	459.9	524.7	852.9	776.9	491.2	689.9	1335.1	2199.1	1279.3	973.4	553.7
85°	281.3	350.5	669.8	495.6	276.8	314.8	453.2	611.7	390.7	326.0	198.7
87.5°	142.9	200.9	339.4	180.8	125.0	73.7	120.6	120.6	102.7	89.3	51.3
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°	6081.6	6081.6	6081.6	6081.6	6081.6	6081.6	6081.6	6081.6	6081.6	6081.6	6081.6
2.5°	6103.9	6148.6	6224.5	6296.0	6351.8	6405.3	6458.9	6488.0	6496.9	6532.6	6552.7
5°	6175.4	6258.0	6405.3	6543.8	6630.8	6684.4	6722.4	6744.7	6749.2	6760.3	6778.2
7.5°	6307.1	6438.8	6644.2	6782.7	6847.4	6842.9	6827.3	6771.5	6749.2	6729.1	6733.5
10°	6492.4	6666.6	6918.8	7014.9	6974.7	6867.5	6729.1	6566.1	6490.2	6416.5	6394.2
12.5°	6722.4	6943.4	7191.2	7186.8	6988.1	6713.4	6392.0	6141.9	5983.4	5869.5	5842.7
15°	7001.5	7256.0	7445.7	7293.9	6858.6	6365.2	5894.1	5568.1	5425.2	5300.2	5286.8
17.5°	7289.5	7561.8	7648.9	7260.4	6532.6	5849.4	5315.8	5059.1	4918.4	4851.5	4871.5
20°	7570.8	7840.9	7769.5	7068.4	6037.0	5264.5	4788.9	4648.3	4619.3	4634.9	4628.2
22.5°	7867.7	8108.8	7794.0	6697.8	5405.1	4666.1	4404.9	4409.4	4474.1	4521.0	4532.2
25°	8171.3	8334.3	7729.3	6162.0	4726.4	4226.3	4161.6	4233.0	4360.3	4451.8	4476.4
27.5°	8463.8	8535.3	7588.6	5498.9	4143.7	3911.5	3922.7	4070.0	4262.0	4389.3	4420.6
30°	8794.2	8713.9	7318.5	4753.2	3739.6	3641.4	3735.2	3907.1	4099.1	4212.9	4239.7
32.5°	9167.1	8867.9	6889.8	4063.3	3453.8	3424.8	3578.9	3690.5	3775.3	3808.8	3826.7
35°	9631.5	9084.5	6340.6	3578.9	3197.1	3266.3	3413.7	3357.8	3324.4	3306.5	3324.4
37.5°	10234.3	9376.9	5697.6	3264.1	2989.5	3152.4	3212.7	3038.6	2906.9	2842.1	2857.7
40°	10959.9	9805.6	5079.2	3020.7	2857.7	3054.2	2949.3	2739.4	2572.0	2480.4	2487.1
42.5°	11765.8	10254.4	4559.0	2837.6	2784.1	2973.8	2755.0	2505.0	2234.8	2205.8	2234.8
45°	12612.0	10716.5	4204.0	2697.0	2748.3	2904.6	2643.4	2239.3	2047.3	2165.6	2228.1
47.5°	13458.2	11140.7	3989.7	2592.1	2730.5	2826.5	2545.2	2092.0	1955.8	2127.7	2208.0
50°	14400.3	11520.3	3893.7	2516.1	2710.4	2795.2	2397.8	2054.0	1859.8	1973.6	2058.5
52.5°	15335.8	11815.0	3822.2	2440.2	2681.4	2770.7	2326.4	2009.3	1743.7	1750.4	1797.2
55°	16269.0	12007.0	3744.1	2339.8	2616.6	2717.1	2319.7	1960.2	1656.6	1625.3	1647.7
57.5°	17264.7	12116.4	3648.1	2228.1	2505.0	2580.9	2313.0	1922.3	1629.8	1578.5	1585.2
60°	18278.4	12277.1	3523.1	2092.0	2355.4	2417.9	2297.4	1908.9	1614.2	1527.1	1533.8
62.5°	19187.0	12332.9	3373.5	1962.5	2163.4	2257.2	2263.9	1897.7	1571.8	1422.2	1422.2
65°	19783.1	12091.8	3112.3	1815.1	1955.8	2092.0	2199.1	1859.8	1495.8	1346.3	1346.3
67.5°	19758.6	11404.2	2703.7	1625.3	1754.8	1908.9	2105.3	1795.0	1404.3	1252.5	1259.2
70°	18838.7	10046.7	2185.7	1404.3	1533.8	1712.4	1984.8	1699.0	1294.9	1149.8	1163.2
72.5°	16157.4	7863.2	1587.4	1145.3	1277.1	1509.2	1828.5	1582.9	1183.3	1058.3	1051.6
75°	11542.6	4976.5	1076.1	879.6	993.5	1279.3	1634.3	1446.7	1080.6	1062.7	1002.4
77.5°	5896.3	2377.7	712.2	643.0	692.1	1009.1	1373.1	1292.7	1096.2	877.4	781.4
80°	1917.8	877.4	448.8	437.6	459.9	672.0	1062.7	1060.5	830.5	596.1	526.9
82.5°	611.7	377.3	292.5	281.3	270.1	422.0	741.2	839.5	560.4	377.3	375.1
85°	243.4	225.5	171.9	158.5	113.9	198.7	388.5	558.2	417.5	272.4	279.1
87.5°	89.3	89.3	46.9	33.5	24.6	67.0	104.9	167.4	238.9	140.7	138.4
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)