

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: P954151

Luminaire Tested: **GALN-SB7C-727-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954151
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-SB7C-727-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 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: 50714 lumens
Efficiency: N/A
Efficacy: 144.7 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): 350.5
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

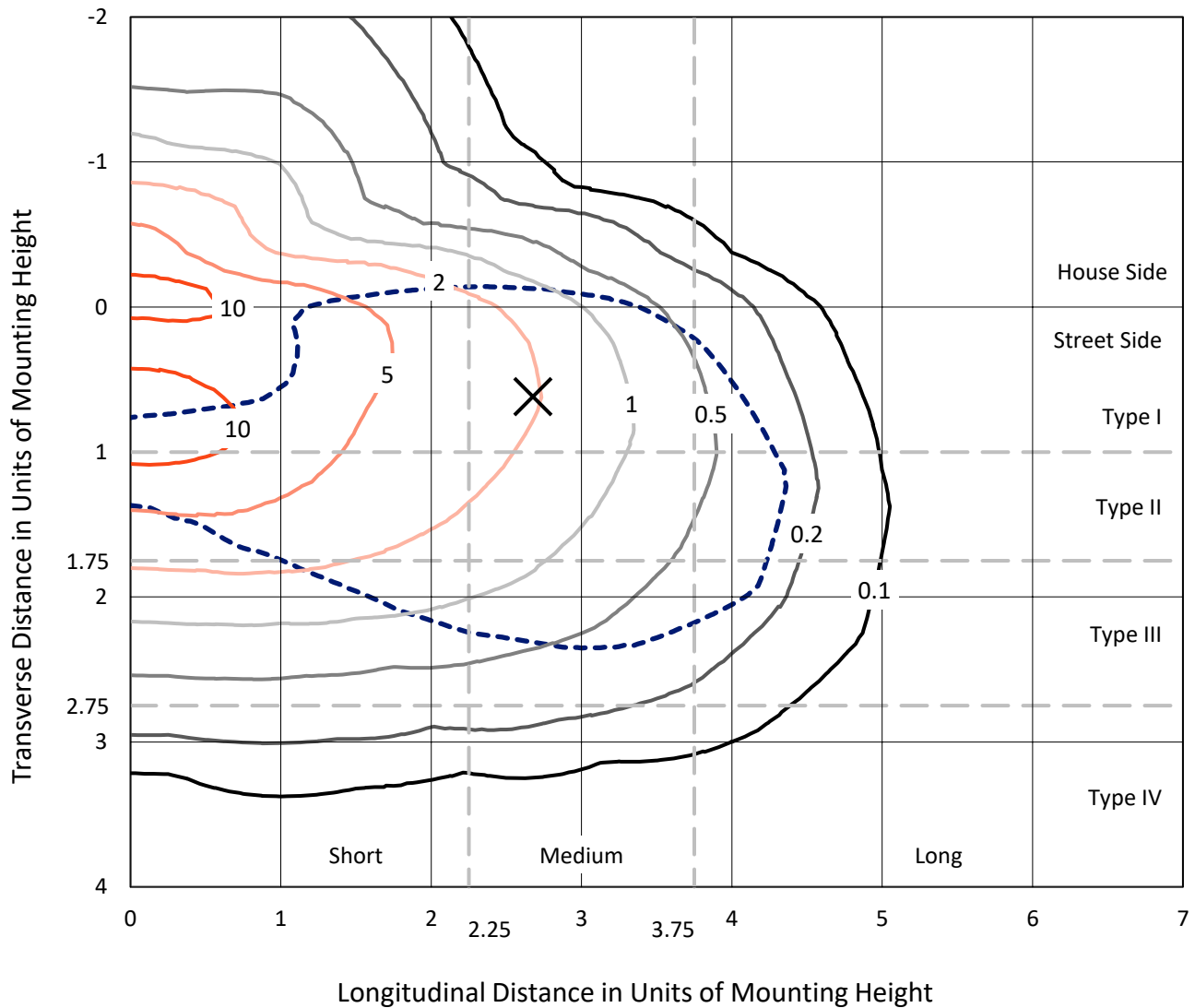


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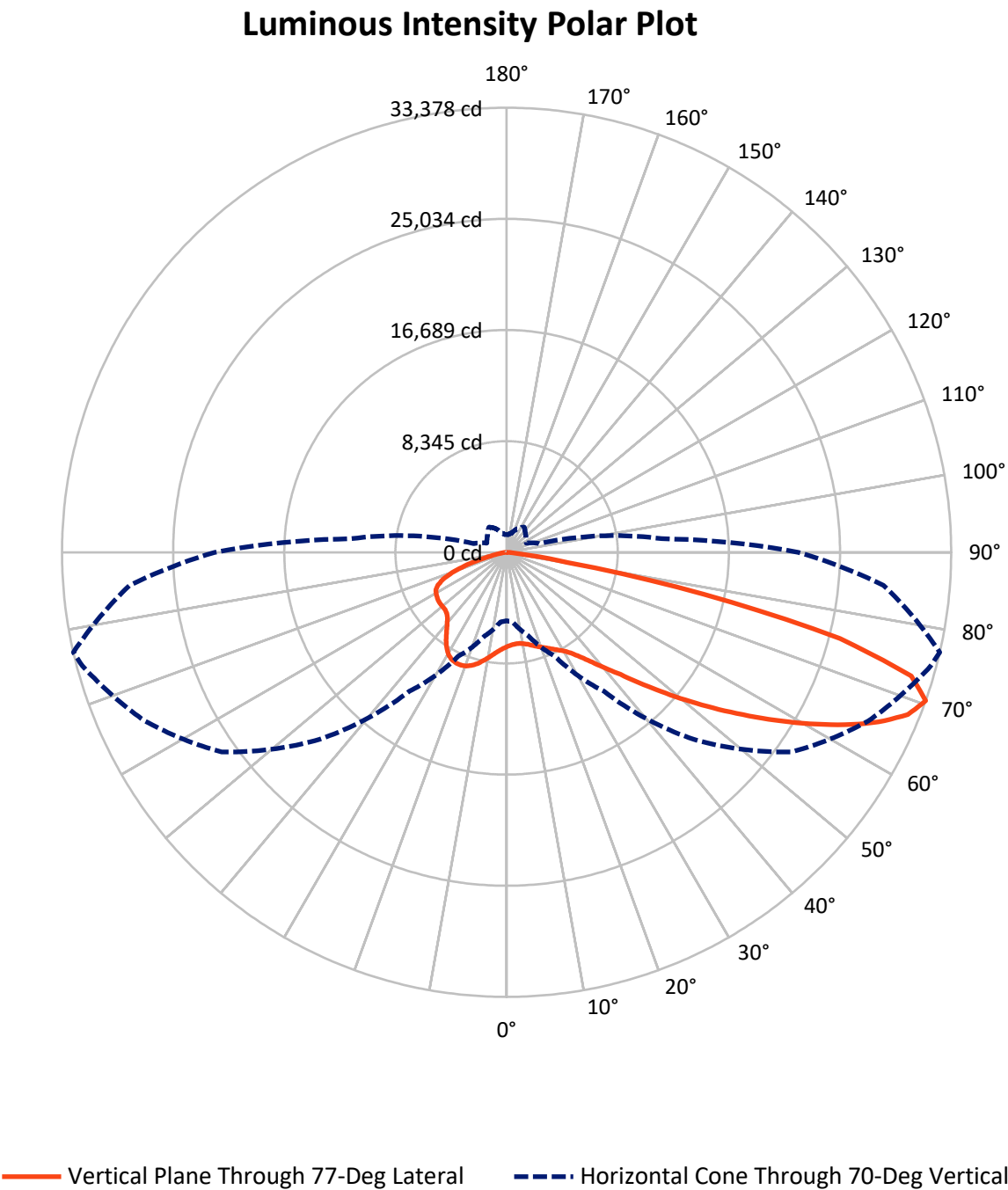
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
Type III - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11105.6	0.0	11105.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	39608.4	0.0	39608.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	50714.0	0.0	50714.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	674.8	1.3
10°-20°	1947.5	3.8
20°-30°	3330.4	6.6
30°-40°	5355.7	10.6
40°-50°	8361.6	16.5
50°-60°	11169.1	22.0
60°-70°	11904.5	23.5
70°-80°	7328.4	14.5
80°-90°	642.2	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°	50714.0	100.0
0°-180°	50714.0	100.0

Coefficient of Utilization



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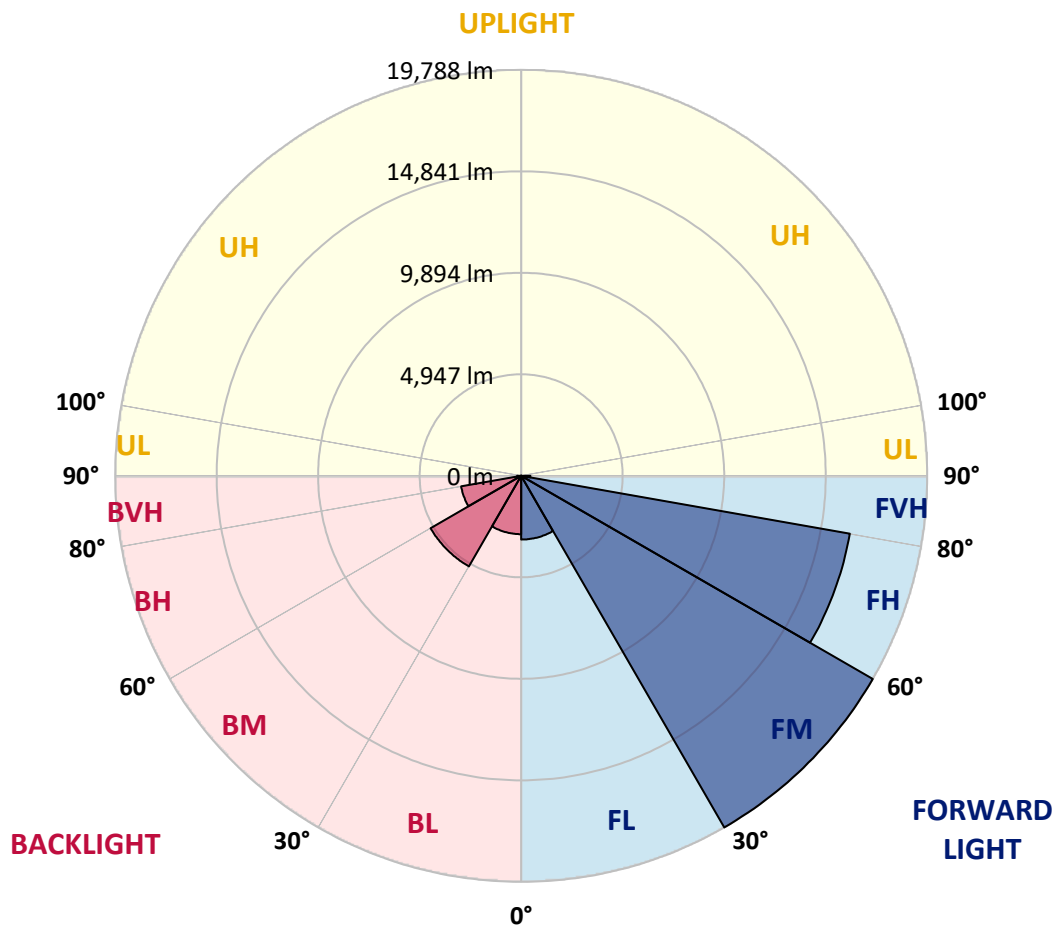
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3107.0	6.1			
FM	(30°-60°)	19787.5	39.0			
FH	(60°-80°)	16264.8	32.1			G5
FVH	(80°-90°)	449.0	0.9			G3/500
BL	(0°-30°)	2845.6	5.6	B4/5000		
BM	(30°-60°)	5098.8	10.1	B4/8500		
BH	(60°-80°)	2968.0	5.9	B4/5000		G4/5000
BVH	(80°-90°)	193.1	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°	7075.1	7075.1	7075.1	7075.1	7075.1	7075.1	7075.1	7075.1	7075.1	7075.1	7075.1
2.5°	6521.8	6519.2	6553.0	6563.4	6625.7	6669.9	6753.0	6841.3	6955.6	6968.6	7038.7
5°	6145.2	6145.2	6184.2	6225.7	6306.3	6394.6	6521.8	6675.1	6872.5	6903.6	7077.7
7.5°	5825.8	5846.5	5880.3	5960.8	6054.3	6181.6	6376.4	6594.6	6854.3	6903.6	7184.2
10°	5568.6	5592.0	5633.6	5698.5	5838.7	6015.4	6269.9	6550.4	6898.4	6976.4	7340.0
12.5°	5488.1	5511.5	5534.9	5584.2	5714.1	5921.9	6225.7	6571.2	7004.9	7082.9	7553.0
15°	5675.1	5703.7	5685.5	5672.5	5740.0	5929.7	6246.5	6646.5	7137.4	7249.1	7815.3
17.5°	6106.3	6116.7	6075.1	5953.0	5942.6	6043.9	6345.2	6750.4	7303.6	7425.7	8080.2
20°	6802.3	6784.2	6698.5	6456.9	6319.2	6298.5	6514.0	6906.2	7475.1	7604.9	8365.9
22.5°	7747.8	7727.0	7555.6	7173.8	6867.3	6664.7	6758.2	7108.8	7667.3	7812.7	8643.8
25°	8926.9	8898.4	8646.4	8127.0	7651.7	7150.4	7090.6	7376.4	7903.6	8038.7	8934.7
27.5°	10303.5	10280.1	10007.4	9321.7	8636.0	7815.3	7503.6	7690.6	8150.4	8303.6	9262.0
30°	11784.0	11851.5	11368.4	10630.8	9763.3	8682.8	8059.4	8077.6	8469.8	8607.5	9659.4
32.5°	13524.2	13641.1	13059.3	12124.2	10939.9	9625.6	8760.7	8617.9	8934.7	9049.0	10160.7
35°	15248.8	15381.3	14898.2	13864.4	12500.8	10737.3	9493.2	9238.6	9552.9	9677.6	10825.6
37.5°	16739.6	16916.3	16666.9	15768.3	14170.9	12077.5	10449.0	9968.5	10313.9	10469.7	11719.1
40°	17916.2	18186.3	18168.2	17607.1	16139.7	13703.4	11661.9	10869.7	11259.3	11428.2	12802.1
42.5°	18872.0	19105.8	19308.4	19279.8	18194.1	15550.1	13087.8	12041.1	12337.2	12532.0	14020.3
45°	19531.8	19781.1	20217.4	20687.6	20170.7	17526.6	14721.5	13430.7	13700.8	13994.3	15472.2
47.5°	20121.3	20404.4	20970.7	21716.1	21848.6	19511.0	16511.1	15048.8	15295.5	15599.4	16929.3
50°	20173.3	20417.4	21295.3	22352.4	23040.7	21417.4	18433.1	16864.3	17095.5	17420.1	18490.2
52.5°	18918.8	19303.2	20835.6	22334.2	23588.7	23012.1	20342.1	18752.6	19012.3	19401.9	20105.8
55°	14685.2	15248.8	19487.6	21638.2	23393.9	24043.3	22157.6	20760.3	21092.7	21500.5	21731.7
57.5°	12648.9	12895.6	15469.6	20370.7	22505.7	24310.8	23690.0	22788.8	23323.8	23770.6	23451.1
60°	11368.4	11573.6	13095.6	18399.3	21336.9	23887.4	24874.4	24679.6	25604.3	26136.7	25209.5
62.5°	9997.0	10191.8	11576.2	15363.1	19840.8	23183.6	25622.4	26425.0	27941.8	28523.6	26866.5
65°	8636.0	8802.3	10129.5	12908.6	17939.6	22479.7	26009.4	27934.0	30105.4	30708.0	28243.1
67.5°	7119.2	7256.9	8511.4	10890.5	15628.0	21516.1	26201.6	29121.0	31988.4	32505.3	28923.6
70°	5137.5	5244.0	6540.0	8612.7	12726.8	19859.0	26123.7	29962.5	32965.0	33378.0	28409.3
72.5°	2428.5	2524.6	4046.6	5592.0	8989.3	16633.2	24547.2	29295.0	31972.9	31767.7	25261.4
75°	1296.1	1379.2	2324.6	3067.4	4747.9	11402.2	20087.6	25235.4	26848.4	25851.0	18669.4
77.5°	877.9	942.8	1438.9	1841.5	2168.8	5412.8	12911.2	17472.1	16809.8	15163.1	9350.3
80°	696.1	763.6	1179.2	1246.7	1049.3	1955.8	5334.9	8088.0	5810.2	4646.6	2659.6
82.5°	535.0	610.4	992.2	903.9	571.4	802.6	1553.2	2558.3	1488.3	1132.4	644.1
85°	327.3	407.8	779.2	576.6	322.1	366.2	527.3	711.7	454.5	379.2	231.2
87.5°	166.2	233.8	394.8	210.4	145.4	85.7	140.3	140.3	119.5	103.9	59.7
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°	7075.1	7075.1	7075.1	7075.1	7075.1	7075.1	7075.1	7075.1	7075.1	7075.1	7075.1
2.5°	7101.0	7153.0	7241.3	7324.4	7389.3	7451.7	7514.0	7547.8	7558.2	7599.7	7623.1
5°	7184.2	7280.3	7451.7	7612.7	7714.0	7776.3	7820.5	7846.5	7851.7	7864.6	7885.4
7.5°	7337.4	7490.6	7729.6	7890.6	7965.9	7960.7	7942.6	7877.6	7851.7	7828.3	7833.5
10°	7553.0	7755.6	8049.1	8160.7	8114.0	7989.3	7828.3	7638.7	7550.4	7464.7	7438.7
12.5°	7820.5	8077.6	8365.9	8360.7	8129.6	7810.1	7436.1	7145.2	6960.8	6828.3	6797.2
15°	8145.2	8441.2	8662.0	8485.4	7978.9	7404.9	6856.9	6477.7	6311.5	6166.0	6150.4
17.5°	8480.2	8797.1	8898.4	8446.4	7599.7	6804.9	6184.2	5885.5	5721.9	5643.9	5667.3
20°	8807.5	9121.7	9038.6	8223.1	7023.1	6124.5	5571.2	5407.6	5373.8	5392.0	5384.2
22.5°	9152.9	9433.4	9067.2	7791.9	6288.1	5428.4	5124.5	5129.7	5205.0	5259.5	5272.5
25°	9506.1	9695.7	8991.9	7168.6	5498.5	4916.7	4841.4	4924.5	5072.5	5179.0	5207.6
27.5°	9846.4	9929.5	8828.2	6397.2	4820.6	4550.5	4563.5	4734.9	4958.3	5106.3	5142.7
30°	10230.8	10137.3	8514.0	5529.7	4350.5	4236.2	4345.3	4545.3	4768.7	4901.1	4932.3
32.5°	10664.5	10316.5	8015.3	4727.1	4018.0	3984.3	4163.5	4293.3	4392.0	4431.0	4451.8
35°	11204.8	10568.4	7376.4	4163.5	3719.3	3799.9	3971.3	3906.4	3867.4	3846.6	3867.4
37.5°	11906.1	10908.7	6628.3	3797.3	3477.8	3667.4	3737.5	3534.9	3381.7	3306.4	3324.6
40°	12750.2	11407.4	5908.9	3514.2	3324.6	3553.1	3431.0	3186.9	2992.1	2885.6	2893.4
42.5°	13687.8	11929.4	5303.7	3301.2	3238.8	3459.6	3205.1	2914.2	2599.9	2566.1	2599.9
45°	14672.2	12467.1	4890.7	3137.5	3197.3	3379.1	3075.2	2605.1	2381.7	2519.4	2592.1
47.5°	15656.6	12960.6	4641.4	3015.5	3176.5	3288.2	2960.9	2433.7	2275.2	2475.2	2568.7
50°	16752.6	13402.1	4529.7	2927.2	3153.1	3251.8	2789.5	2389.5	2163.6	2296.0	2394.7
52.5°	17840.9	13745.0	4446.6	2838.9	3119.4	3223.3	2706.4	2337.6	2028.5	2036.3	2090.8
55°	18926.6	13968.3	4355.7	2722.0	3044.0	3160.9	2698.6	2280.4	1927.2	1890.8	1916.8
57.5°	20085.0	14095.6	4244.0	2592.1	2914.2	3002.5	2690.8	2236.3	1896.0	1836.3	1844.1
60°	21264.2	14282.6	4098.6	2433.7	2740.2	2812.9	2672.6	2220.7	1877.9	1776.6	1784.4
62.5°	22321.3	14347.5	3924.5	2283.0	2516.8	2625.9	2633.7	2207.7	1828.5	1654.5	1654.5
65°	23014.7	14067.0	3620.6	2111.6	2275.2	2433.7	2558.3	2163.6	1740.2	1566.2	1566.2
67.5°	22986.2	13267.0	3145.3	1890.8	2041.5	2220.7	2449.3	2088.2	1633.7	1457.1	1464.9
70°	21916.1	11687.9	2542.8	1633.7	1784.4	1992.1	2309.0	1976.6	1506.4	1337.6	1353.2
72.5°	18796.7	9147.7	1846.7	1332.4	1485.7	1755.8	2127.2	1841.5	1376.6	1231.1	1223.3
75°	13428.1	5789.4	1251.9	1023.3	1155.8	1488.3	1901.2	1683.1	1257.1	1236.3	1166.2
77.5°	6859.5	2766.1	828.5	748.0	805.2	1174.0	1597.3	1503.8	1275.3	1020.7	909.1
80°	2231.1	1020.7	522.1	509.1	535.0	781.8	1236.3	1233.7	966.2	693.5	613.0
82.5°	711.7	438.9	340.2	327.3	314.3	490.9	862.3	976.6	651.9	438.9	436.3
85°	283.1	262.3	200.0	184.4	132.5	231.2	451.9	649.3	485.7	316.9	324.7
87.5°	103.9	103.9	54.5	39.0	28.6	77.9	122.1	194.8	277.9	163.6	161.0
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)