

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: P954172

Luminaire Tested: **GALN-SB7C-730-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954172
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-730-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54677 lumens
Efficiency: N/A
Efficacy: 156.0 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): 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

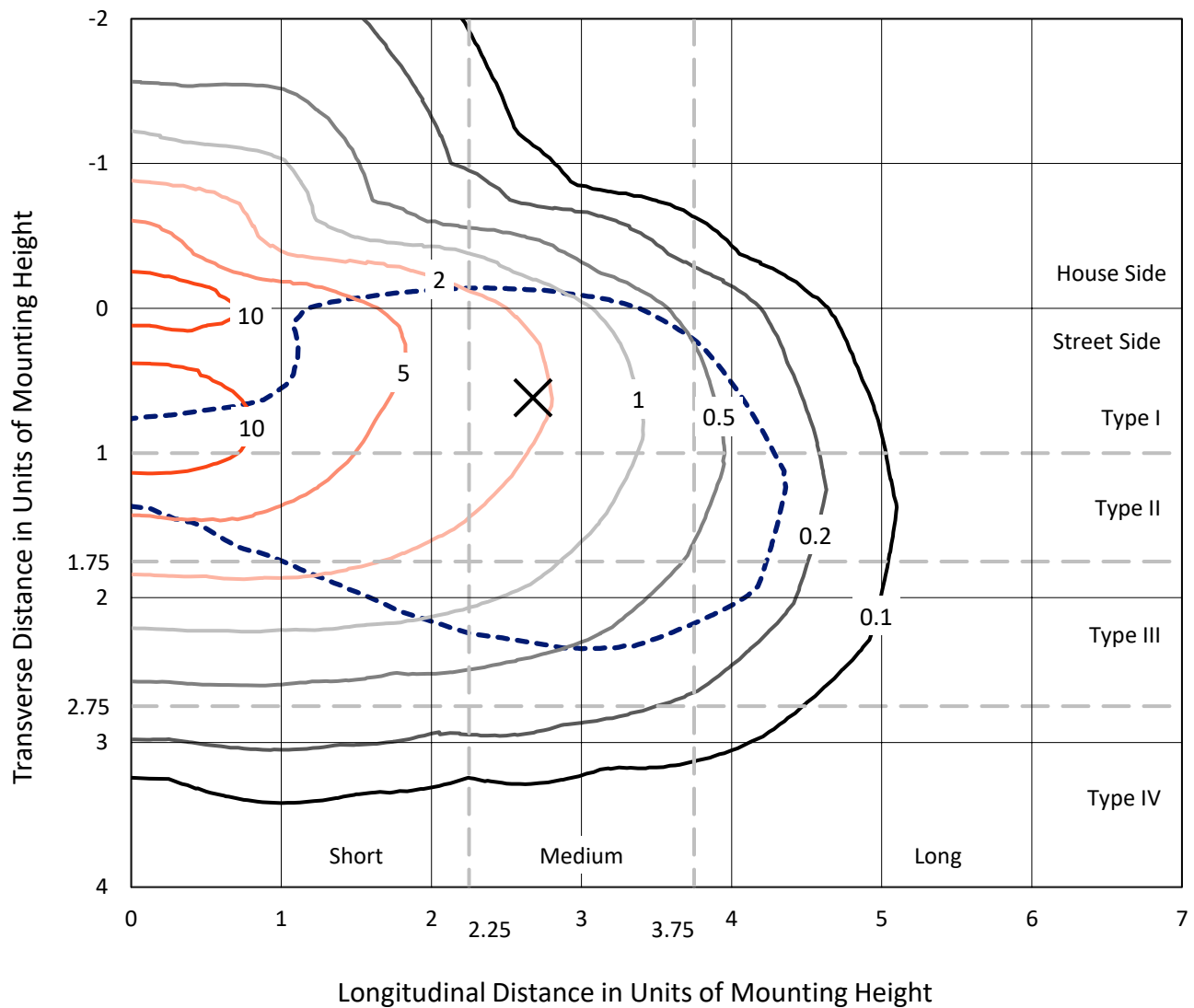


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Iso-Footcandle Lines of Horizontal Illumination

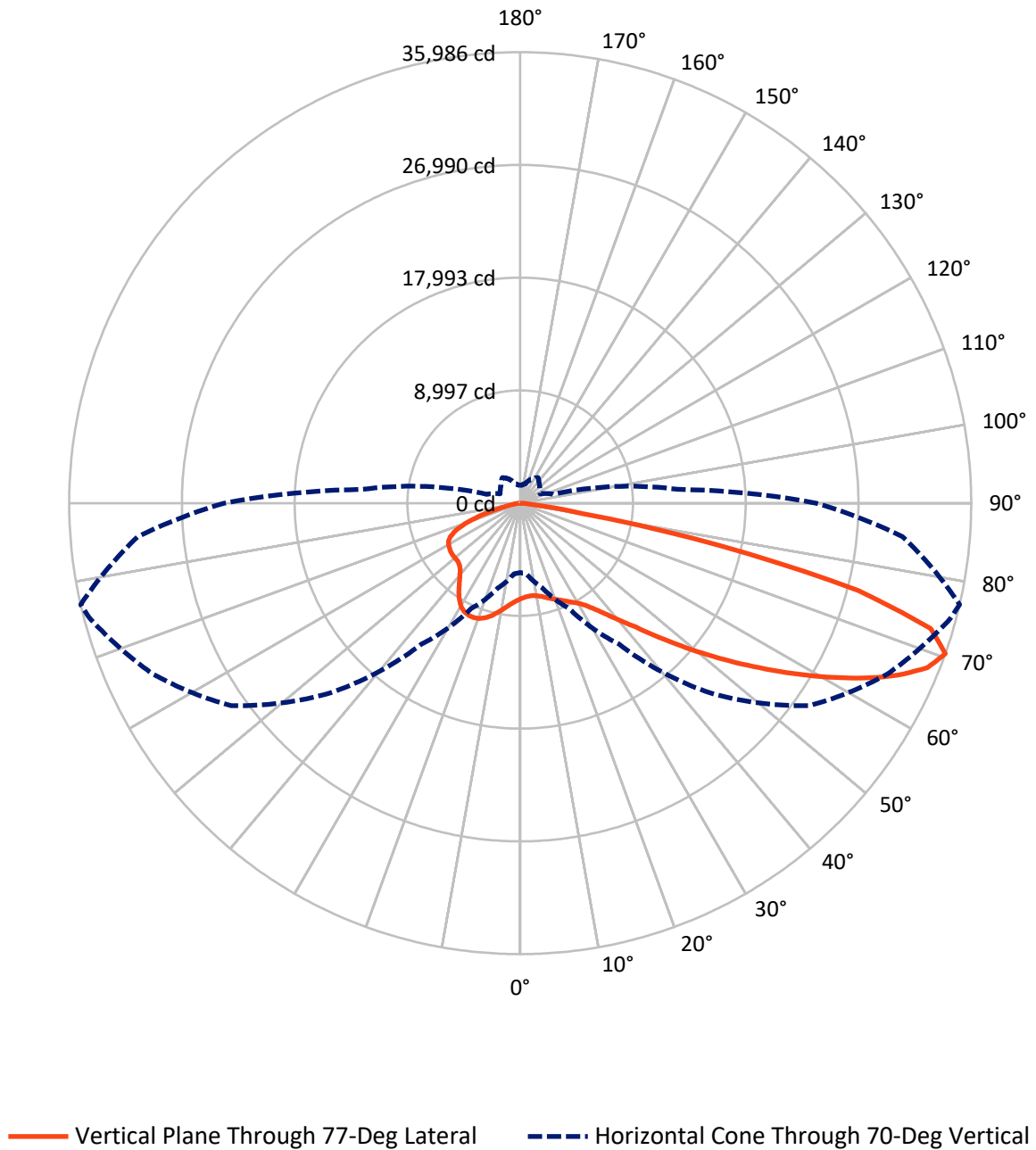
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 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	11973.4	0.0	11973.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	42703.6	0.0	42703.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	54677.0	0.0	54677.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	727.5	1.3
10°-20°	2099.6	3.8
20°-30°	3590.7	6.6
30°-40°	5774.2	10.6
40°-50°	9015.0	16.5
50°-60°	12041.9	22.0
60°-70°	12834.8	23.5
70°-80°	7901.0	14.5
80°-90°	692.3	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°	54677.0	100.0
0°-180°	54677.0	100.0

Coefficient of Utilization



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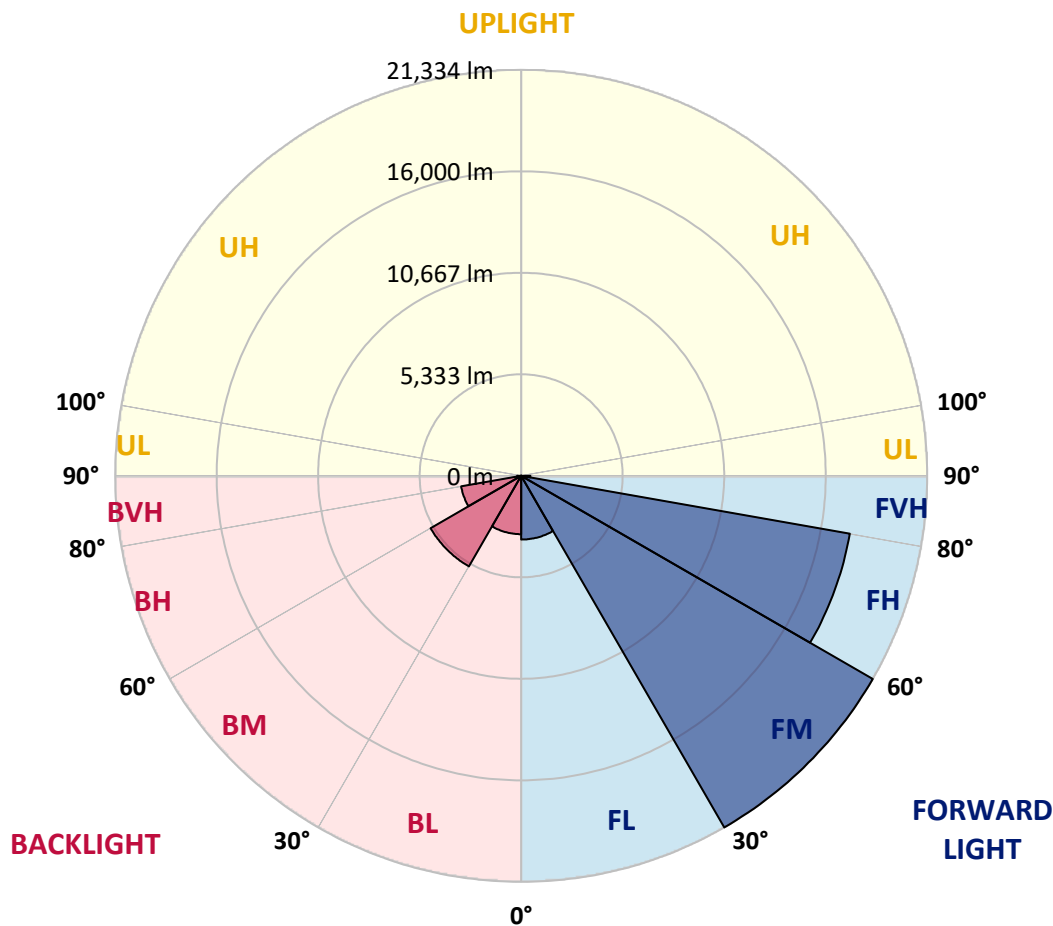
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3349.8	6.1			
FM	(30°-60°)	21333.8	39.0			
FH	(60°-80°)	17535.8	32.1			G5
FVH	(80°-90°)	484.1	0.9			G3/500
BL	(0°-30°)	3068.0	5.6	B4/5000		
BM	(30°-60°)	5497.3	10.1	B4/8500		
BH	(60°-80°)	3200.0	5.9	B4/5000		G4/5000
BVH	(80°-90°)	208.2	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°	7627.9	7627.9	7627.9	7627.9	7627.9	7627.9	7627.9	7627.9	7627.9	7627.9	7627.9
2.5°	7031.5	7028.7	7065.1	7076.3	7143.5	7191.1	7280.7	7375.9	7499.1	7513.1	7588.7
5°	6625.4	6625.4	6667.4	6712.3	6799.1	6894.3	7031.5	7196.7	7409.5	7443.1	7630.7
7.5°	6281.0	6303.4	6339.8	6426.6	6527.4	6664.6	6874.7	7109.9	7389.9	7443.1	7745.6
10°	6003.8	6029.0	6073.8	6143.8	6295.0	6485.4	6759.9	7062.3	7437.5	7521.5	7913.6
12.5°	5917.0	5942.2	5967.4	6020.6	6160.6	6384.6	6712.3	7084.7	7552.3	7636.3	8143.2
15°	6118.6	6149.4	6129.8	6115.8	6188.6	6393.0	6734.7	7165.9	7695.1	7815.6	8426.0
17.5°	6583.4	6594.6	6549.8	6418.2	6407.0	6516.2	6841.1	7277.9	7874.4	8006.0	8711.6
20°	7333.9	7314.3	7221.9	6961.5	6813.1	6790.7	7023.1	7445.9	8059.2	8199.2	9019.7
22.5°	8353.2	8330.8	8146.0	7734.4	7403.9	7185.5	7286.3	7664.3	8266.4	8423.2	9319.3
25°	9624.5	9593.7	9322.1	8762.1	8249.6	7709.1	7644.7	7952.8	8521.2	8666.8	9632.9
27.5°	11108.7	11083.5	10789.4	10050.2	9310.9	8426.0	8090.0	8291.6	8787.3	8952.5	9985.8
30°	12704.8	12777.6	12256.8	11461.5	10526.2	9361.3	8689.2	8708.8	9131.7	9280.1	10414.2
32.5°	14581.0	14707.0	14079.8	13071.7	11794.7	10377.8	9445.3	9291.3	9632.9	9756.1	10954.7
35°	16440.4	16583.2	16062.4	14947.9	13477.7	11576.3	10235.0	9960.6	10299.4	10433.8	11671.5
37.5°	18047.8	18238.2	17969.3	17000.4	15278.3	13021.3	11265.5	10747.4	11119.9	11287.9	12634.8
40°	19316.3	19607.5	19587.9	18983.0	17400.9	14774.2	12573.2	11719.1	12139.2	12321.2	13802.5
42.5°	20346.8	20598.8	20817.2	20786.4	19615.9	16765.2	14110.6	12982.1	13301.3	13511.3	15115.9
45°	21058.0	21326.9	21797.3	22304.2	21746.9	18896.2	15871.9	14480.2	14771.4	15087.9	16681.2
47.5°	21693.7	21998.9	22609.4	23413.1	23555.9	21035.6	17801.3	16224.8	16490.8	16818.4	18252.2
50°	21749.7	22012.9	22959.4	24099.1	24841.2	23091.0	19873.5	18182.2	18431.4	18781.4	19935.1
52.5°	20397.2	20811.6	22463.8	24079.5	25432.1	24810.4	21931.7	20218.0	20498.0	20918.0	21676.9
55°	15832.7	16440.4	21010.4	23329.1	25222.0	25922.1	23889.1	22382.6	22741.0	23180.6	23429.9
57.5°	13637.3	13903.3	16678.4	21962.5	24264.4	26210.5	25541.3	24569.6	25146.4	25628.1	25283.7
60°	12256.8	12478.0	14119.0	19837.1	23004.2	25754.1	26818.2	26608.2	27605.1	28179.1	27179.4
62.5°	10778.2	10988.3	12480.8	16563.6	21391.3	24995.2	27624.7	28490.0	30125.3	30752.6	28966.0
65°	9310.9	9490.1	10921.1	13917.4	19341.5	24236.4	28041.9	30116.9	32458.0	33107.6	30450.2
67.5°	7675.5	7824.0	9176.5	11741.5	16849.2	23197.5	28249.1	31396.6	34488.1	35045.4	31183.8
70°	5538.9	5653.7	7051.1	9285.7	13721.3	21410.9	28165.1	32303.9	35541.0	35986.3	30629.4
72.5°	2618.3	2721.9	4362.8	6029.0	9691.7	17932.9	26465.4	31584.3	34471.3	34250.1	27235.4
75°	1397.3	1486.9	2506.2	3307.1	5118.9	12293.2	21657.3	27207.4	28946.4	27871.1	20128.4
77.5°	946.5	1016.5	1551.4	1985.4	2338.2	5835.8	13920.2	18837.4	18123.4	16348.0	10081.0
80°	750.5	823.3	1271.3	1344.1	1131.3	2108.6	5751.8	8720.0	6264.2	5009.7	2867.5
82.5°	576.9	658.1	1069.7	974.5	616.1	865.3	1674.6	2758.3	1604.6	1220.9	694.5
85°	352.8	439.6	840.1	621.7	347.2	394.8	568.5	767.3	490.0	408.8	249.2
87.5°	179.2	252.0	425.6	226.8	156.8	92.4	151.2	151.2	128.8	112.0	64.4
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°	7627.9	7627.9	7627.9	7627.9	7627.9	7627.9	7627.9	7627.9	7627.9	7627.9	7627.9
2.5°	7655.9	7711.9	7807.2	7896.8	7966.8	8034.0	8101.2	8137.6	8148.8	8193.6	8218.8
5°	7745.6	7849.2	8034.0	8207.6	8316.8	8384.0	8431.6	8459.6	8465.2	8479.2	8501.6
7.5°	7910.8	8076.0	8333.6	8507.2	8588.4	8582.8	8563.2	8493.2	8465.2	8440.0	8445.6
10°	8143.2	8361.6	8678.0	8798.5	8748.0	8613.6	8440.0	8235.6	8140.4	8048.0	8020.0
12.5°	8431.6	8708.8	9019.7	9014.1	8764.9	8420.4	8017.2	7703.5	7504.7	7361.9	7328.3
15°	8781.7	9100.9	9338.9	9148.5	8602.4	7983.6	7392.7	6983.9	6804.7	6647.8	6631.0
17.5°	9142.9	9484.5	9593.7	9106.5	8193.6	7336.7	6667.4	6345.4	6169.0	6085.0	6110.2
20°	9495.7	9834.6	9744.9	8865.7	7571.9	6603.0	6006.6	5830.2	5793.8	5813.4	5805.0
22.5°	9868.2	10170.6	9775.7	8400.8	6779.5	5852.6	5524.9	5530.5	5611.7	5670.6	5684.6
25°	10249.0	10453.4	9694.5	7728.8	5928.2	5300.9	5219.7	5309.3	5468.9	5583.7	5614.5
27.5°	10615.8	10705.4	9518.1	6897.1	5197.3	4906.1	4920.1	5104.9	5345.7	5505.3	5544.5
30°	11030.3	10929.5	9179.3	5961.8	4690.5	4567.2	4684.9	4900.5	5141.3	5284.1	5317.7
32.5°	11497.9	11122.7	8641.6	5096.5	4332.0	4295.6	4488.8	4628.8	4735.3	4777.3	4799.7
35°	12080.4	11394.3	7952.8	4488.8	4010.0	4096.8	4281.6	4211.6	4169.6	4147.2	4169.6
37.5°	12836.4	11761.1	7146.3	4094.0	3749.6	3954.0	4029.6	3811.2	3646.0	3564.7	3584.3
40°	13746.5	12298.8	6370.6	3788.8	3584.3	3830.8	3699.2	3435.9	3225.9	3111.1	3119.5
42.5°	14757.4	12861.6	5718.2	3559.1	3491.9	3730.0	3455.5	3141.9	2803.1	2766.7	2803.1
45°	15818.7	13441.3	5272.9	3382.7	3447.1	3643.2	3315.5	2808.7	2567.8	2716.3	2794.7
47.5°	16880.0	13973.4	5004.1	3251.1	3424.7	3545.1	3192.3	2623.9	2453.0	2668.7	2769.5
50°	18061.8	14449.4	4883.7	3155.9	3399.5	3505.9	3007.5	2576.3	2332.6	2475.4	2581.9
52.5°	19235.1	14819.0	4794.1	3060.7	3363.1	3475.1	2917.9	2520.2	2187.0	2195.4	2254.2
55°	20405.6	15059.9	4696.1	2934.7	3281.9	3407.9	2909.5	2458.6	2077.8	2038.6	2066.6
57.5°	21654.5	15197.1	4575.6	2794.7	3141.9	3237.1	2901.1	2411.0	2044.2	1979.8	1988.2
60°	22925.8	15398.7	4418.8	2623.9	2954.3	3032.7	2881.5	2394.2	2024.6	1915.4	1923.8
62.5°	24065.5	15468.7	4231.2	2461.4	2713.5	2831.1	2839.5	2380.2	1971.4	1783.8	1783.8
65°	24813.2	15166.3	3903.6	2276.6	2453.0	2623.9	2758.3	2332.6	1876.2	1688.6	1688.6
67.5°	24782.4	14303.8	3391.1	2038.6	2201.0	2394.2	2640.7	2251.4	1761.4	1571.0	1579.4
70°	23628.7	12601.2	2741.5	1761.4	1923.8	2147.8	2489.4	2131.0	1624.2	1442.1	1458.9
72.5°	20265.6	9862.6	1991.0	1436.5	1601.8	1893.0	2293.4	1985.4	1484.1	1327.3	1318.9
75°	14477.4	6241.8	1349.7	1103.3	1246.1	1604.6	2049.8	1814.6	1355.3	1332.9	1257.3
77.5°	7395.5	2982.3	893.3	806.5	868.1	1265.7	1722.2	1621.4	1374.9	1100.5	980.1
80°	2405.4	1100.5	562.9	548.9	576.9	842.9	1332.9	1330.1	1041.7	747.7	660.9
82.5°	767.3	473.2	366.8	352.8	338.8	529.3	929.7	1052.9	702.9	473.2	470.4
85°	305.2	282.8	215.6	198.8	142.8	249.2	487.2	700.1	523.7	341.6	350.0
87.5°	112.0	112.0	58.8	42.0	30.8	84.0	131.6	210.0	299.6	176.4	173.6
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)