

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: P954147

Luminaire Tested: **GALN-SB7C-727-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954147
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
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-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50317 lumens
Efficiency: N/A
Efficacy: 143.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - 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



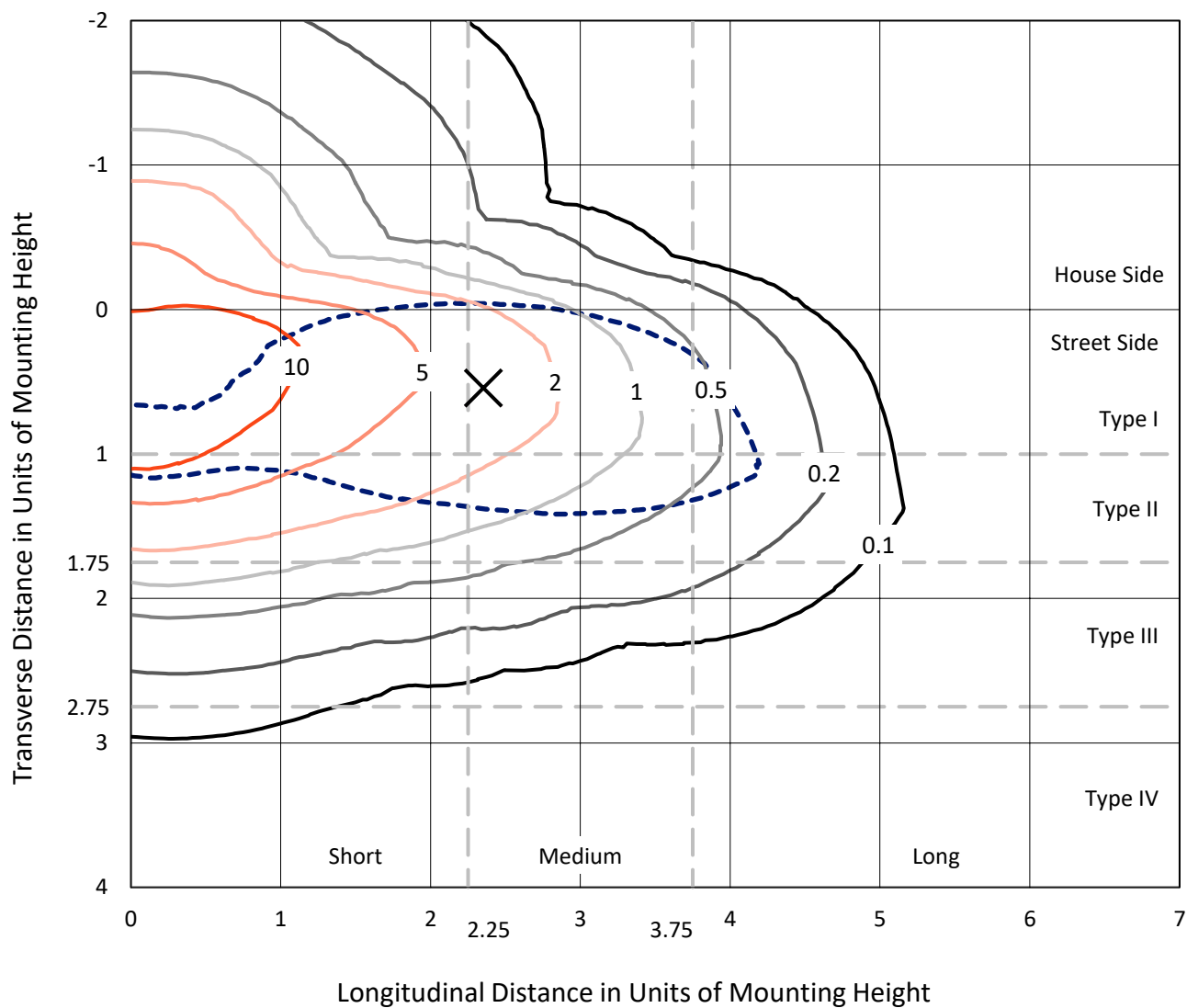
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Iso-Footcandle Lines of Horizontal Illumination

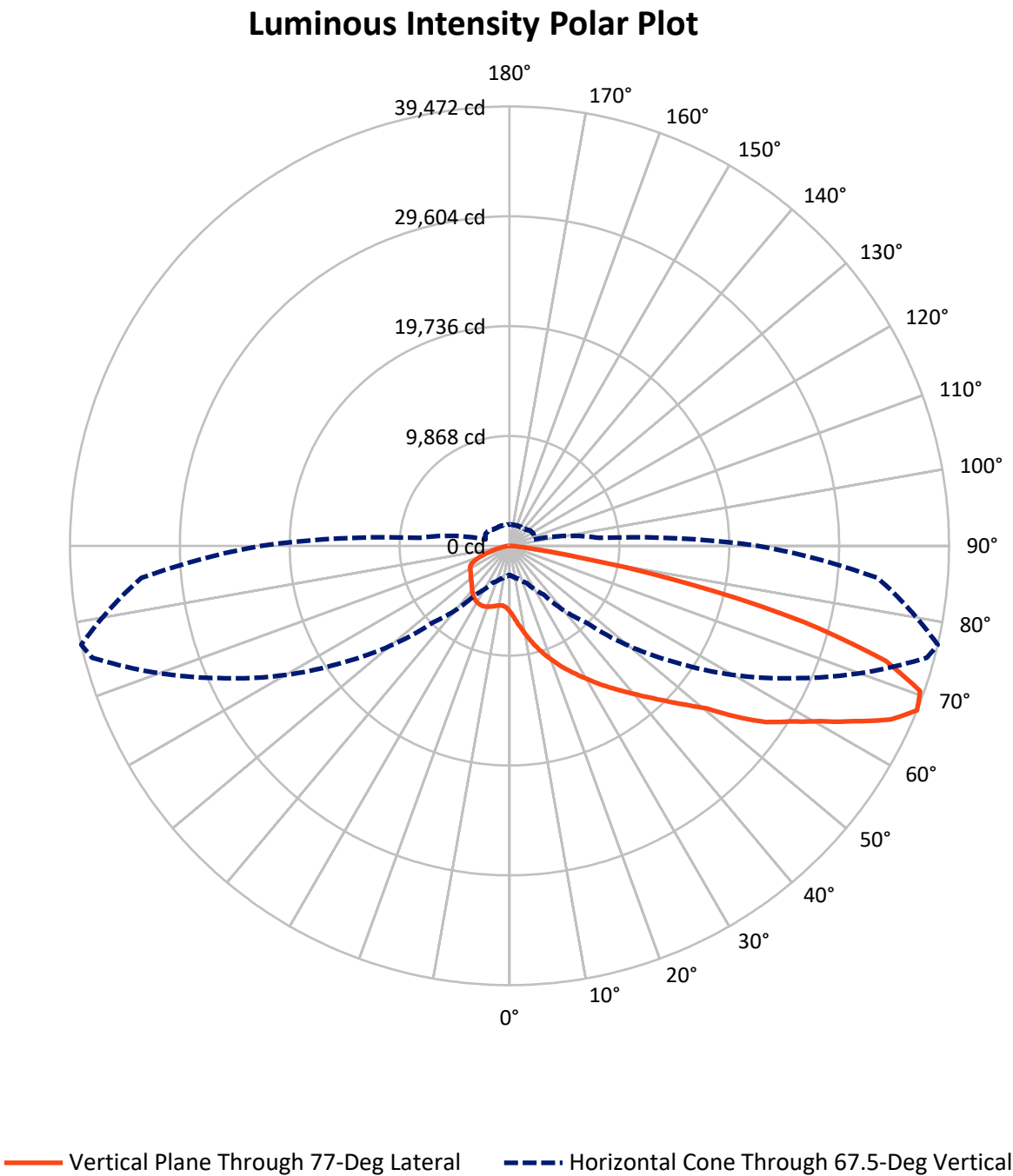
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 fc
 Type II - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9518.0	0.0	9518.0
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	40799.0	0.0	40799.0
	% Fixture	81.1	0.0	81.1
Total	Lumens	50317.0	0.0	50317.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.8	1.3
10°-20°	2273.4	4.5
20°-30°	4292.4	8.5
30°-40°	6915.0	13.7
40°-50°	9458.5	18.8
50°-60°	10669.2	21.2
60°-70°	9958.4	19.8
70°-80°	5458.9	10.8
80°-90°	658.5	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°	50317.0	100.0
0°-180°	50317.0	100.0

Coefficient of Utilization



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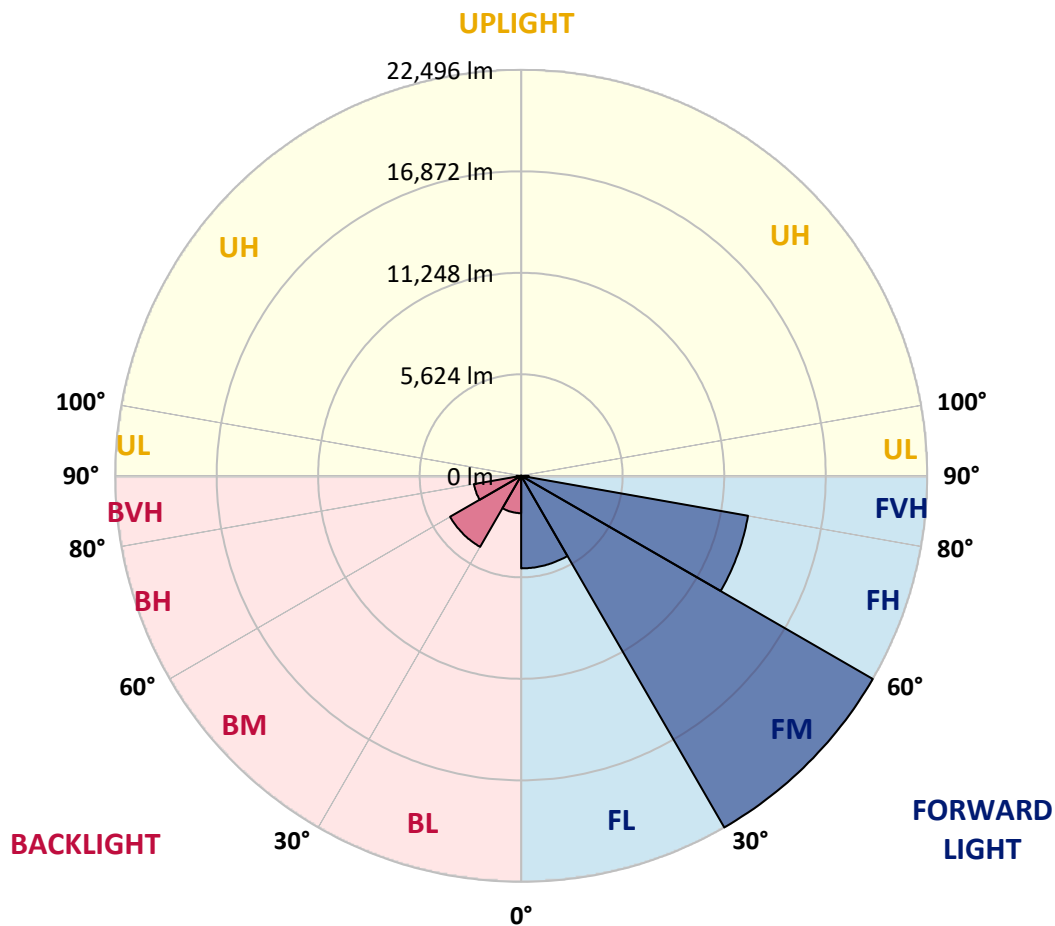
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5129.2	10.2			
FM	(30°-60°)	22496.2	44.7			
FH	(60°-80°)	12761.9	25.4			G5
FVH	(80°-90°)	411.8	0.8			G3/500
BL	(0°-30°)	2069.4	4.1	B3/2500		
BM	(30°-60°)	4546.5	9.0	B3/5000		
BH	(60°-80°)	2655.4	5.3	B4/5000		G4/5000
BVH	(80°-90°)	246.7	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	5903.7	5903.7	5903.7	5903.7	5903.7	5903.7	5903.7	5903.7	5903.7	5903.7	5903.7
2.5°	7392.0	7444.0	7379.0	7379.0	7160.9	7046.6	6828.4	6662.2	6363.5	6311.5	6114.1
5°	8737.4	8802.4	8711.5	8672.5	8415.4	8179.0	7812.8	7451.8	6919.3	6864.8	6399.8
7.5°	9779.0	9862.1	9781.6	9740.0	9511.4	9246.5	8818.0	8314.1	7563.4	7457.0	6784.2
10°	10628.3	10641.3	10615.3	10630.9	10451.7	10233.5	9794.6	9207.6	8269.9	8124.5	7249.2
12.5°	11108.8	11168.5	11220.5	11314.0	11282.8	11147.8	10753.0	10051.7	9018.0	8830.9	7755.6
15°	11334.8	11438.7	11555.6	11771.1	11945.2	11978.9	11677.6	10958.2	9779.0	9553.0	8267.3
17.5°	11415.3	11514.0	11698.4	12010.1	12384.1	12636.0	12501.0	11838.7	10532.2	10272.5	8805.0
20°	11823.1	11851.6	11963.3	12259.4	12664.6	13082.8	13184.1	12685.4	11277.6	10984.1	9360.8
22.5°	12695.8	12638.6	12669.8	12804.9	13095.8	13501.0	13732.1	13433.4	12043.9	11706.2	9921.8
25°	14137.3	13971.1	13804.8	13649.0	13797.1	14025.6	14288.0	14181.5	12846.4	12417.9	10488.0
27.5°	15958.0	15755.4	15389.2	14877.5	14698.3	14778.8	14895.7	14874.9	13589.3	13155.5	11072.4
30°	17750.2	17513.8	17077.5	16337.3	15864.5	15651.6	15563.2	15503.5	14397.0	13934.7	11662.0
32.5°	19181.3	18994.3	18565.8	17737.2	17051.5	16687.9	16394.4	16181.4	15241.2	14778.8	12285.4
35°	20433.3	20259.2	19768.3	18864.5	18119.0	17732.0	17347.6	16893.1	16119.1	15651.6	12955.5
37.5°	21576.1	21402.1	20729.3	19789.1	19038.5	18771.0	18428.1	17656.7	16999.6	16558.0	13664.6
40°	22298.1	22259.2	21630.6	20565.7	19786.5	19654.1	19539.8	18542.4	17976.2	17565.8	14443.8
42.5°	22482.6	22568.3	22069.6	21194.3	20451.4	20344.9	20612.5	19545.0	19072.2	18680.0	15326.9
45°	22038.4	22285.2	21957.9	21363.1	20924.1	20867.0	21563.1	20641.0	20285.2	19926.8	16391.8
47.5°	20913.8	21331.9	21196.9	21113.8	21051.4	21298.2	22399.4	21804.6	21659.2	21347.5	17607.3
50°	18643.7	19435.9	19672.2	20196.9	20799.5	21633.2	23160.5	23074.7	23264.3	22950.1	19087.8
52.5°	14719.1	15810.0	17181.4	18495.6	20025.5	21521.5	23996.8	24898.1	25698.1	25526.6	21441.0
55°	12150.3	12641.2	13695.8	16106.1	18524.2	21051.4	24373.4	26370.8	28113.6	27960.3	23225.4
57.5°	10176.4	10615.3	11264.7	13277.6	16254.1	19983.9	24607.2	27269.4	29768.1	29752.5	24986.4
60°	8059.5	8524.5	9189.4	10615.3	13602.3	18139.8	24555.2	28292.8	31879.7	32009.6	27134.4
62.5°	5670.0	6181.7	6919.3	8249.1	10893.2	15750.3	23495.5	29033.0	34365.4	34718.6	29718.7
65°	3727.2	4064.8	4620.7	5768.7	8116.7	12677.6	21472.2	29129.1	37025.0	37622.4	32144.6
67.5°	2612.9	2742.8	3070.1	3693.4	5350.5	9721.8	18248.9	28134.4	38799.0	39471.7	33196.6
70°	2038.9	2103.8	2270.1	2519.4	3361.0	6537.5	13984.1	25547.4	38419.8	39121.1	32097.9
72.5°	1761.0	1823.3	1885.7	1916.8	2254.5	4036.3	9472.5	21360.5	34848.5	35323.8	27908.4
75°	1597.4	1612.9	1664.9	1654.5	1719.4	2618.1	5467.4	15563.2	27495.4	27331.8	20602.1
77.5°	1342.8	1363.6	1449.3	1436.3	1527.2	1789.6	2838.9	10043.9	17825.5	16713.9	11467.2
80°	1137.6	1148.0	1241.5	1225.9	1327.2	1296.1	1449.3	5119.4	7560.8	6405.0	3306.4
82.5°	394.8	488.3	948.0	976.6	1013.0	784.4	836.3	2088.3	2309.0	1768.8	693.5
85°	192.2	205.2	483.1	685.7	683.1	394.8	407.8	745.4	727.3	571.4	231.2
87.5°	31.2	39.0	57.1	267.5	213.0	103.9	140.3	145.5	150.6	129.9	51.9
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°	5903.7	5903.7	5903.7	5903.7	5903.7	5903.7	5903.7	5903.7	5903.7	5903.7	5903.7
2.5°	5968.7	5838.8	5566.1	5314.2	5116.8	4927.1	4820.7	4729.8	4677.8	4667.4	4667.4
5°	6129.7	5862.2	5366.1	4947.9	4675.2	4472.6	4366.1	4298.6	4264.8	4244.0	4241.5
7.5°	6360.9	5968.7	5262.2	4786.9	4501.2	4355.7	4301.2	4290.8	4288.2	4290.8	4298.6
10°	6680.4	6142.7	5251.8	4747.9	4509.0	4428.5	4425.9	4428.5	4438.8	4441.4	4444.0
12.5°	7025.8	6321.9	5293.4	4781.7	4607.7	4563.5	4555.7	4553.1	4560.9	4566.1	4568.7
15°	7402.4	6558.3	5363.5	4854.4	4716.8	4670.0	4662.2	4646.6	4644.0	4641.4	4638.8
17.5°	7789.4	6792.0	5441.4	4932.3	4786.9	4722.0	4693.4	4657.0	4628.5	4620.7	4628.5
20°	8181.6	7023.2	5496.0	4971.3	4792.1	4701.2	4644.0	4581.7	4532.4	4503.8	4514.2
22.5°	8599.8	7264.8	5529.7	4960.9	4745.3	4620.7	4516.8	4444.0	4368.7	4319.4	4322.0
25°	9007.6	7475.1	5527.1	4906.4	4654.4	4496.0	4363.5	4270.0	4166.1	4114.2	4114.2
27.5°	9399.8	7664.7	5462.2	4810.3	4524.6	4347.9	4189.5	4077.8	3976.5	3927.2	3924.6
30°	9804.9	7823.2	5360.9	4670.0	4371.3	4176.5	4002.5	3906.4	3815.5	3768.7	3766.1
32.5°	10207.5	7968.6	5218.1	4496.0	4194.7	4007.7	3836.3	3748.0	3693.4	3693.4	3696.0
35°	10633.5	8069.9	5028.4	4293.4	4007.7	3828.5	3693.4	3641.5	3636.3	3605.1	3597.3
37.5°	11082.8	8134.9	4797.3	4085.6	3823.3	3654.5	3612.9	3550.6	3498.6	3431.1	3420.7
40°	11555.6	8199.8	4519.4	3870.0	3628.5	3535.0	3516.8	3433.7	3285.6	3119.4	3096.0
42.5°	12129.6	8243.9	4231.1	3654.5	3423.3	3392.1	3418.1	3275.2	3038.9	2914.2	2916.8
45°	12794.5	8316.7	3966.1	3441.5	3212.9	3212.9	3322.0	3135.0	2940.2	2862.3	2875.3
47.5°	13656.8	8485.5	3719.4	3207.7	3018.1	3070.1	3109.0	2966.2	2857.1	2761.0	2758.4
50°	14903.5	8890.7	3464.8	2971.4	2870.1	2974.0	2919.4	2836.3	2709.0	2631.1	2623.3
52.5°	16451.5	9129.6	3238.9	2758.4	2742.8	2846.7	2768.8	2690.8	2594.7	2490.8	2470.1
55°	17506.1	9173.8	3049.3	2602.5	2657.1	2646.7	2618.1	2548.0	2496.0	2358.4	2361.0
57.5°	18685.2	9262.1	2893.4	2509.0	2602.5	2488.2	2477.9	2418.1	2350.6	2257.1	2225.9
60°	20095.6	9399.8	2758.4	2472.7	2555.8	2384.4	2332.4	2309.0	2241.5	2194.7	2207.7
62.5°	21633.2	9524.4	2620.7	2477.9	2501.2	2283.1	2205.1	2197.3	2155.8	2140.2	2140.2
65°	22682.5	9184.2	2449.3	2472.7	2415.5	2179.2	2080.5	2077.9	2044.1	2038.9	2036.3
67.5°	22316.3	8106.3	2218.1	2399.9	2327.2	2075.3	1966.2	1955.8	1911.6	1914.2	1914.2
70°	20482.6	6568.7	1898.7	2220.7	2218.1	1981.8	1846.7	1812.9	1753.2	1763.6	1774.0
72.5°	17043.7	4867.4	1470.1	1922.0	2044.1	1896.1	1709.0	1654.5	1579.2	1589.6	1587.0
75°	12308.8	3309.0	1070.1	1462.3	1779.2	1794.8	1574.0	1480.5	1389.6	1405.2	1410.4
77.5°	6298.5	1875.3	787.0	1007.8	1397.4	1631.1	1451.9	1327.2	1306.5	1451.9	1431.1
80°	2054.5	940.2	545.4	706.5	916.9	1335.0	1272.7	1129.8	1124.6	1158.4	994.8
82.5°	613.0	397.4	350.6	464.9	506.5	1023.4	1098.7	854.5	735.0	774.0	800.0
85°	210.4	192.2	200.0	231.2	241.6	600.0	768.8	566.2	535.1	589.6	581.8
87.5°	49.3	67.5	57.1	51.9	51.9	145.5	298.7	236.4	327.3	218.2	210.4
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)