

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: P955590

Luminaire Tested: **GALN-SB8C-730-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955590
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8C-730-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59185 lumens
Efficiency: N/A
Efficacy: 148.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 399.8
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

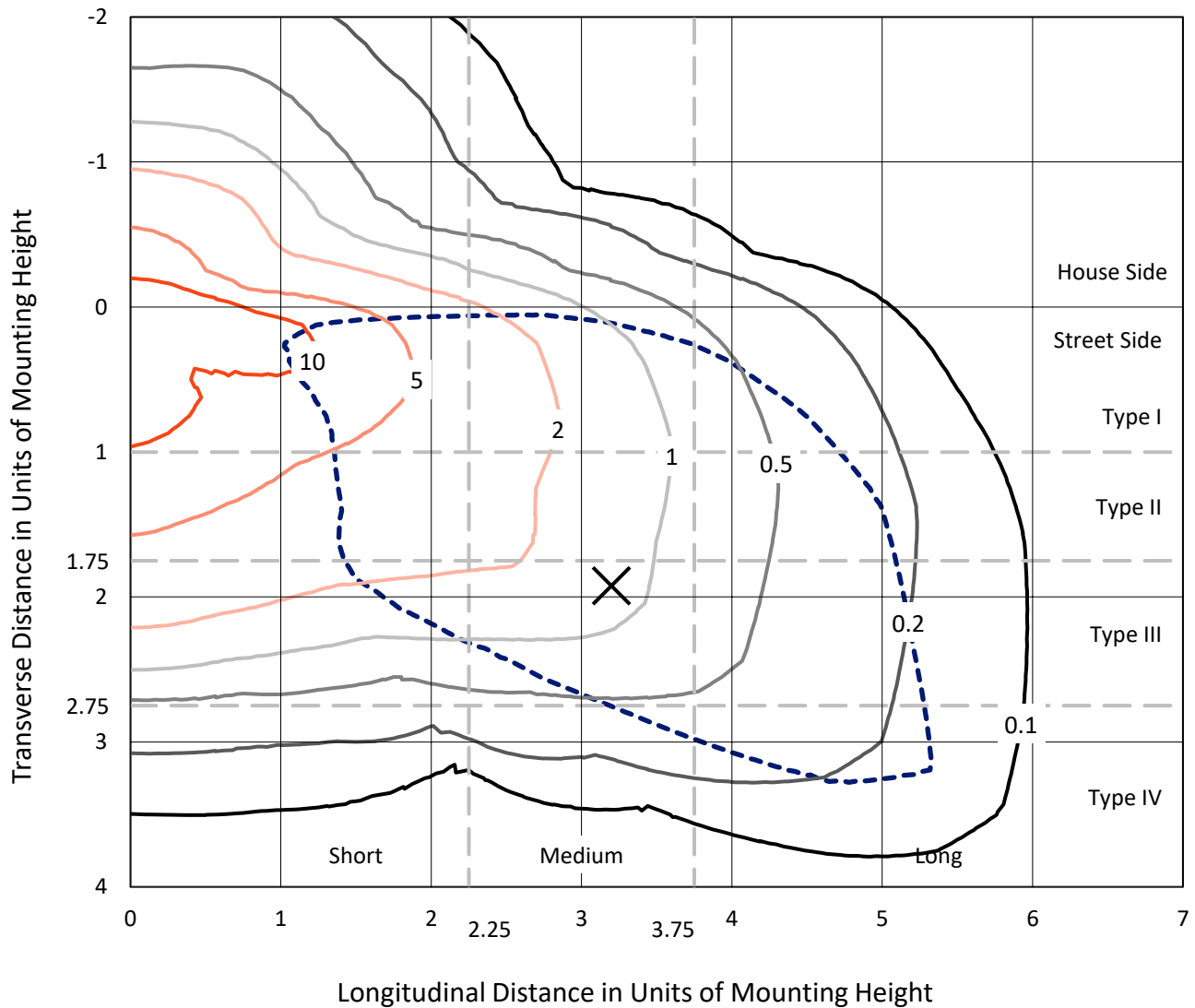


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Iso-Footcandle Lines of Horizontal Illumination

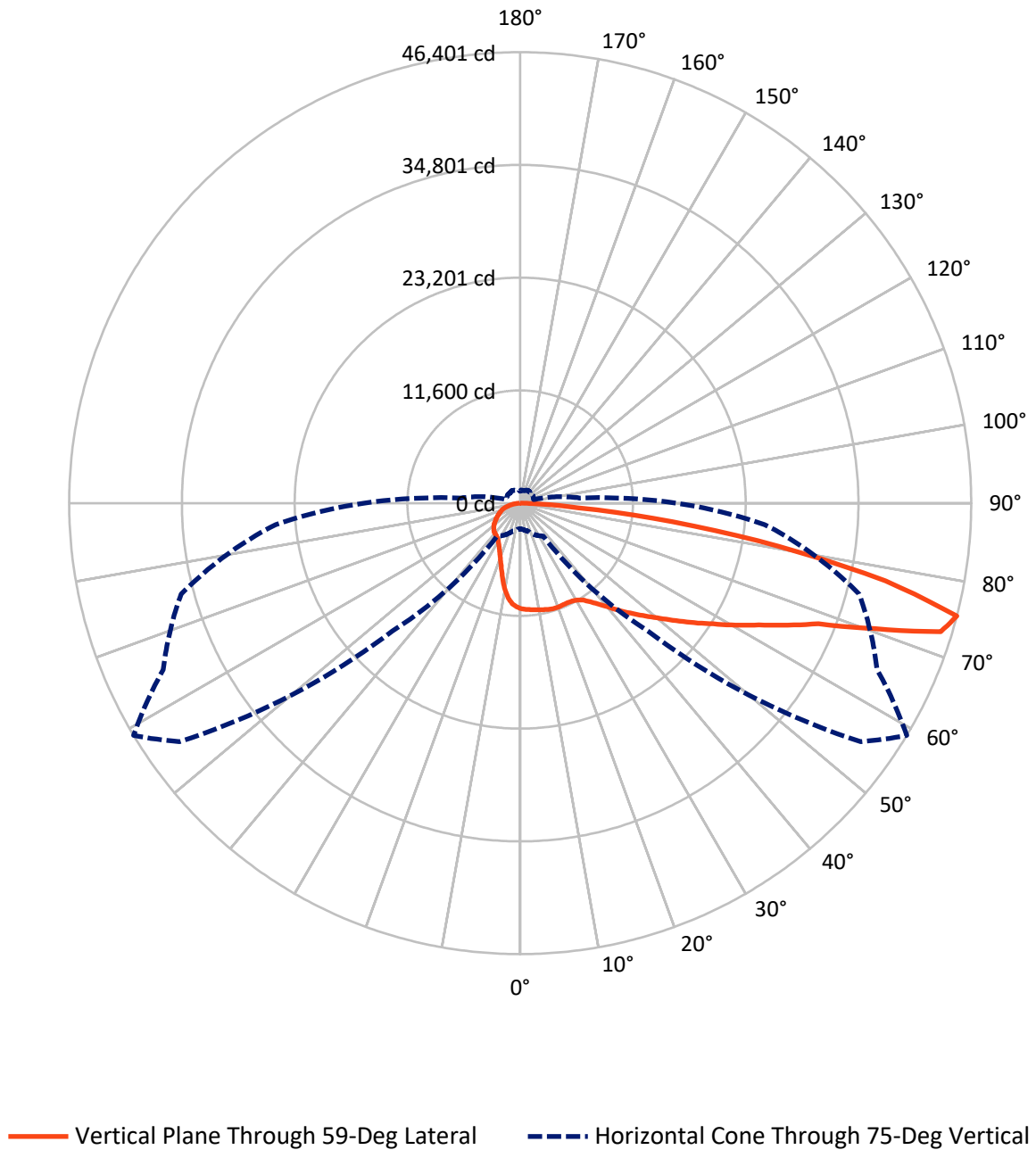
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11100.6	0.0	11100.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	48084.5	0.0	48084.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	59185.0	0.0	59185.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	974.1	1.6
10°-20°	2489.8	4.2
20°-30°	3781.8	6.4
30°-40°	5621.5	9.5
40°-50°	8360.2	14.1
50°-60°	11347.9	19.2
60°-70°	13854.0	23.4
70°-80°	10872.4	18.4
80°-90°	1883.4	3.2
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°	59185.0	100.0
0°-180°	59185.0	100.0

Coefficient of Utilization



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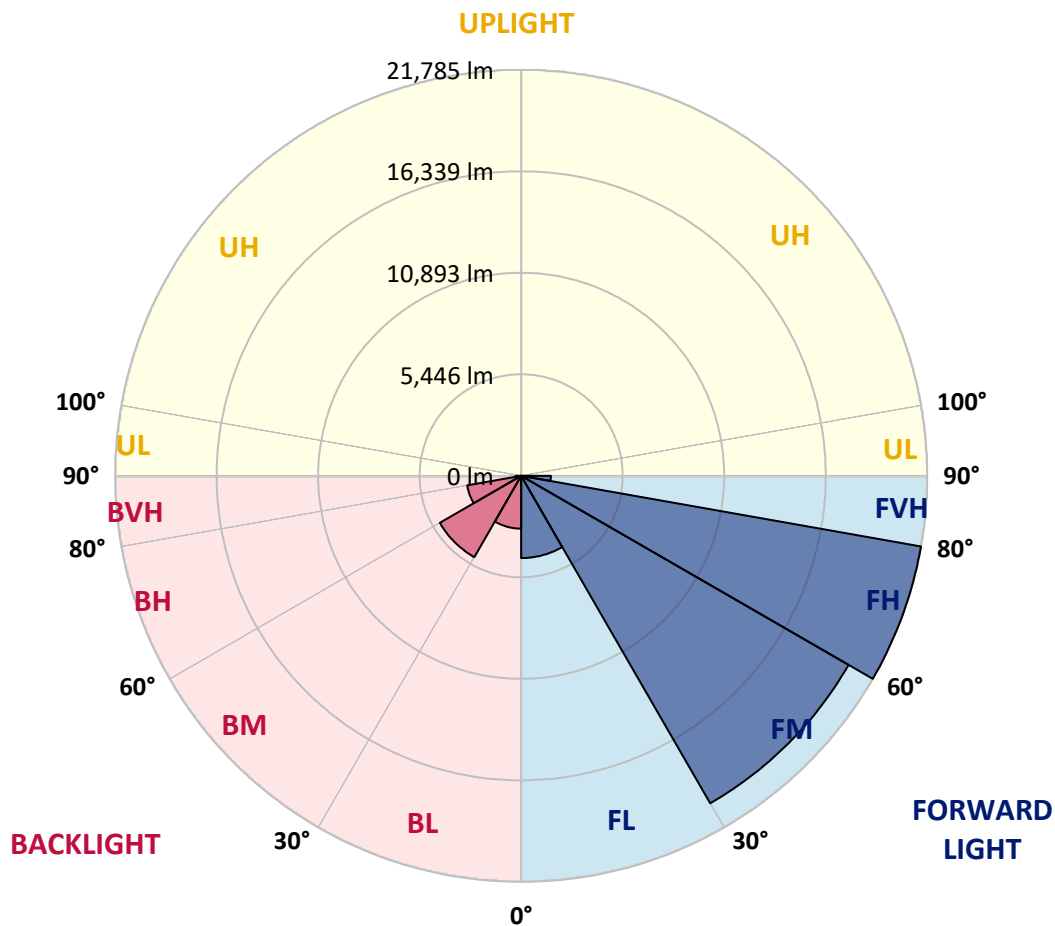
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4412.9	7.5			
FM	(30°-60°)	20291.1	34.3			
FH	(60°-80°)	21785.4	36.8			G5
FVH	(80°-90°)	1595.1	2.7			G5
BL	(0°-30°)	2832.7	4.8	B4/5000		
BM	(30°-60°)	5038.5	8.5	B4/8500		
BH	(60°-80°)	2941.0	5.0	B4/5000		G4/5000
BVH	(80°-90°)	288.3	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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	10863.3	10863.3	10863.3	10863.3	10863.3	10863.3	10863.3	10863.3	10863.3	10863.3	10863.3
2.5°	10955.6	10917.4	10955.6	10939.7	10933.3	10920.6	10923.8	10946.1	10933.3	10949.2	10895.1
5°	10882.4	10860.1	10898.3	10888.7	10930.1	10936.5	10977.9	11003.4	11019.3	11022.5	10981.1
7.5°	10761.4	10739.1	10793.2	10837.8	10927.0	10952.4	11038.4	11079.8	11102.1	11140.3	11079.8
10°	10318.8	10309.3	10443.0	10611.8	10821.9	10952.4	11083.0	11153.0	11188.0	11289.9	11219.9
12.5°	9535.6	9548.3	9723.5	10048.2	10468.5	10888.7	11133.9	11235.8	11289.9	11417.3	11385.4
15°	8787.4	8784.2	8975.3	9322.3	9911.3	10608.6	11159.4	11334.5	11426.8	11614.7	11589.2
17.5°	8354.4	8341.7	8475.4	8739.7	9287.3	10178.7	11095.7	11388.6	11586.0	11821.6	11799.3
20°	8274.8	8249.3	8319.4	8449.9	8838.4	9707.5	10930.1	11388.6	11713.4	12019.0	12006.3
22.5°	8564.5	8523.1	8494.5	8478.6	8650.5	9319.1	10742.3	11350.4	11901.2	12302.4	12280.1
25°	9147.2	9083.5	8937.0	8793.8	8742.8	9144.0	10576.7	11340.9	12181.4	12684.4	12601.7
27.5°	10089.6	10010.0	9713.9	9370.1	9061.2	9233.1	10503.5	11398.2	12490.2	13088.8	12923.2
30°	11258.1	11172.1	10799.6	10271.1	9717.1	9564.3	10595.8	11566.9	12885.0	13626.9	13302.1
32.5°	12305.6	12210.0	11891.7	11353.6	10605.4	10137.4	10888.7	11888.5	13505.9	14375.1	13872.0
35°	13235.2	13123.8	12837.3	12340.6	11694.3	10942.9	11417.3	12458.4	14387.8	15591.3	14645.7
37.5°	14145.8	14015.3	13703.3	13177.9	12725.8	12015.8	12146.4	13190.7	15559.4	17068.6	15670.9
40°	15164.6	14976.8	14597.9	14079.0	13639.6	13273.4	13104.7	14088.5	16750.2	18717.8	16950.8
42.5°	16151.6	15973.3	15521.2	15078.7	14527.9	14422.8	14215.9	15139.2	18052.4	20529.4	18249.8
45°	17215.0	17001.7	16454.1	15893.7	15546.7	15186.9	15292.0	16189.8	19329.1	22376.1	19612.5
47.5°	18211.6	17972.8	17326.5	16702.4	16511.4	15830.1	16279.0	17345.6	20656.8	24248.2	20962.4
50°	18749.7	18514.1	17976.0	17412.4	17262.8	16622.8	17348.8	18615.9	22048.1	26113.9	22258.3
52.5°	19198.6	18943.9	18240.2	17928.2	17883.7	17485.7	18666.9	20067.8	23439.5	27763.1	23509.5
55°	19676.2	19392.8	18494.9	18214.8	18418.5	18453.6	20230.1	21713.8	24910.4	29371.0	24690.7
57.5°	20227.0	19867.2	18740.1	18456.7	18940.7	19587.0	22025.8	23420.4	26355.9	30861.0	25741.4
60°	20745.9	20383.0	19211.3	18842.0	19504.2	20901.9	24085.8	25486.7	27992.4	32188.7	26734.7
62.5°	20847.8	20548.5	19587.0	19583.8	20268.3	22436.5	26524.6	27572.1	29421.9	33500.4	27626.2
65°	19084.0	18896.1	18326.2	19555.2	21363.6	24646.1	29240.4	30240.1	31239.9	34646.6	28409.4
67.5°	14524.7	14550.2	14508.8	16880.7	20478.5	27820.4	33172.5	33096.1	33484.5	35932.9	29310.5
70°	6641.5	6791.1	7765.4	11652.9	16406.3	28186.6	39673.9	38683.7	36302.2	37598.0	30090.5
72.5°	3588.2	3702.8	4100.8	5645.0	9863.5	25060.0	44532.4	45236.1	40049.6	38718.7	29234.1
75°	2633.0	2696.7	2973.7	3588.2	4142.2	18625.5	42790.9	46401.3	40517.6	36104.8	25244.7
77.5°	1970.8	1999.5	2225.5	2843.2	2120.4	9819.0	34191.3	38429.0	34684.8	29663.9	18647.8
80°	1429.5	1461.4	1630.1	2133.2	1486.9	3591.4	23477.7	26973.5	23754.7	18908.8	9293.6
82.5°	987.0	999.7	1073.0	1451.8	1037.9	1394.5	13321.2	15817.3	13260.7	6635.1	2508.9
85°	595.4	611.3	643.1	846.9	589.0	662.2	5750.0	5947.4	3963.9	1585.6	780.0
87.5°	245.2	261.1	286.5	356.6	232.4	184.7	948.8	1190.8	741.8	464.8	242.0
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°	10863.3	10863.3	10863.3	10863.3	10863.3	10863.3	10863.3	10863.3	10863.3	10863.3	10863.3
2.5°	10879.2	10856.9	10796.4	10713.6	10637.2	10541.7	10500.3	10465.3	10433.5	10373.0	10344.3
5°	10946.1	10885.6	10723.2	10513.1	10274.3	10013.2	9758.5	9583.4	9433.7	9322.3	9230.0
7.5°	11047.9	10933.3	10637.2	10207.4	9659.8	9099.4	8593.2	8233.4	7962.8	7864.1	7692.2
10°	11153.0	11016.1	10500.3	9742.6	8797.0	7934.1	7262.3	6893.0	6676.5	6606.5	6498.2
12.5°	11277.2	11076.6	10287.0	9096.2	7832.3	6886.7	6300.8	6084.3	5972.9	5934.7	5944.2
15°	11458.7	11127.5	9965.4	8287.5	6912.1	6122.5	5743.7	5594.0	5536.7	5533.5	5546.3
17.5°	11595.6	11137.1	9465.6	7421.5	6205.3	5660.9	5348.9	5291.5	5329.8	5387.1	5409.4
20°	11748.4	11051.1	8809.7	6631.9	5708.6	5256.5	5126.0	5164.2	5256.5	5339.3	5368.0
22.5°	11856.6	10895.1	8016.9	6017.5	5278.8	5024.1	5017.7	5097.3	5148.3	5189.7	5212.0
25°	11952.1	10630.9	7176.4	5501.7	4925.4	4884.0	4954.1	4928.6	4893.6	4928.6	4950.9
27.5°	12022.2	10213.8	6425.0	5049.6	4677.1	4788.5	4747.1	4689.8	4686.6	4705.7	4737.6
30°	11999.9	9656.6	5807.3	4619.8	4502.0	4610.2	4511.5	4502.0	4492.4	4502.0	4537.0
32.5°	11999.9	9023.0	5332.9	4323.7	4390.5	4349.1	4339.6	4317.3	4279.1	4275.9	4317.3
35°	12066.8	8389.4	4925.4	4164.5	4298.2	4199.5	4205.9	4151.7	4072.1	4033.9	4072.1
37.5°	12203.7	7880.0	4521.1	4088.1	4135.8	4132.6	4107.2	4014.8	3874.7	3753.8	3795.1
40°	12534.8	7730.4	4244.1	4053.0	4059.4	4097.6	4030.7	3852.5	3534.1	3336.7	3362.1
42.5°	13053.8	7981.9	4183.6	3967.1	4008.5	4046.7	3916.1	3502.2	3276.2	3158.4	3158.4
45°	13712.8	8421.3	4314.1	3842.9	3887.5	3954.3	3565.9	3368.5	3266.6	3269.8	3285.7
47.5°	14547.0	8882.9	4556.1	3734.6	3712.4	3750.6	3333.5	3212.5	3072.4	3107.4	3196.6
50°	15511.7	9350.9	4785.3	3588.2	3518.1	3394.0	3183.8	3069.2	2890.9	2808.2	2830.4
52.5°	16556.0	9803.1	4877.6	3409.9	3308.0	3164.7	3082.0	2941.9	2725.4	2588.5	2585.3
55°	17546.2	10213.8	4775.8	3196.6	3097.9	2986.4	2973.7	2887.7	2655.3	2464.3	2464.3
57.5°	18482.2	10557.6	4521.1	2980.1	2884.6	2817.7	2903.7	2862.3	2569.4	2324.2	2311.5
60°	19275.0	10793.2	4151.7	2760.4	2693.5	2658.5	2789.0	2776.3	2448.4	2174.6	2165.0
62.5°	19905.4	10885.6	3744.2	2550.3	2534.3	2470.7	2629.9	2629.9	2295.6	2028.1	2018.6
65°	20398.9	10796.4	3330.3	2343.3	2375.1	2279.6	2435.6	2416.5	2133.2	1897.6	1884.8
67.5°	20835.1	10503.5	2871.8	2139.5	2212.8	2091.8	2231.9	2187.3	1954.9	1767.0	1754.3
70°	21029.3	9822.2	2349.7	1935.8	2024.9	1907.1	2028.1	1945.3	1754.3	1626.9	1601.5
72.5°	19469.2	8163.4	1849.8	1722.5	1798.9	1703.4	1808.4	1712.9	1537.8	1480.5	1432.7
75°	16107.1	6125.7	1423.2	1490.0	1547.3	1474.1	1544.2	1474.1	1314.9	1356.3	1238.5
77.5°	11697.4	4135.8	1088.9	1244.9	1270.4	1232.1	1292.6	1213.0	1069.8	1060.2	1012.5
80°	5816.9	2422.9	853.3	983.8	974.3	948.8	1018.8	980.6	859.6	910.6	901.0
82.5°	1684.3	1037.9	620.8	690.9	671.8	678.2	729.1	748.2	1120.7	1111.2	1136.6
85°	528.5	407.5	372.5	385.2	366.1	375.7	429.8	853.3	789.6	461.7	499.9
87.5°	136.9	140.1	92.3	98.7	101.9	121.0	136.9	519.0	248.3	162.4	171.9
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)