

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: P956986

Luminaire Tested: **GALN-SB9C-722-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956986
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-SB9C-722-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57849 lumens
Efficiency: N/A
Efficacy: 128.6 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): 449.8
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



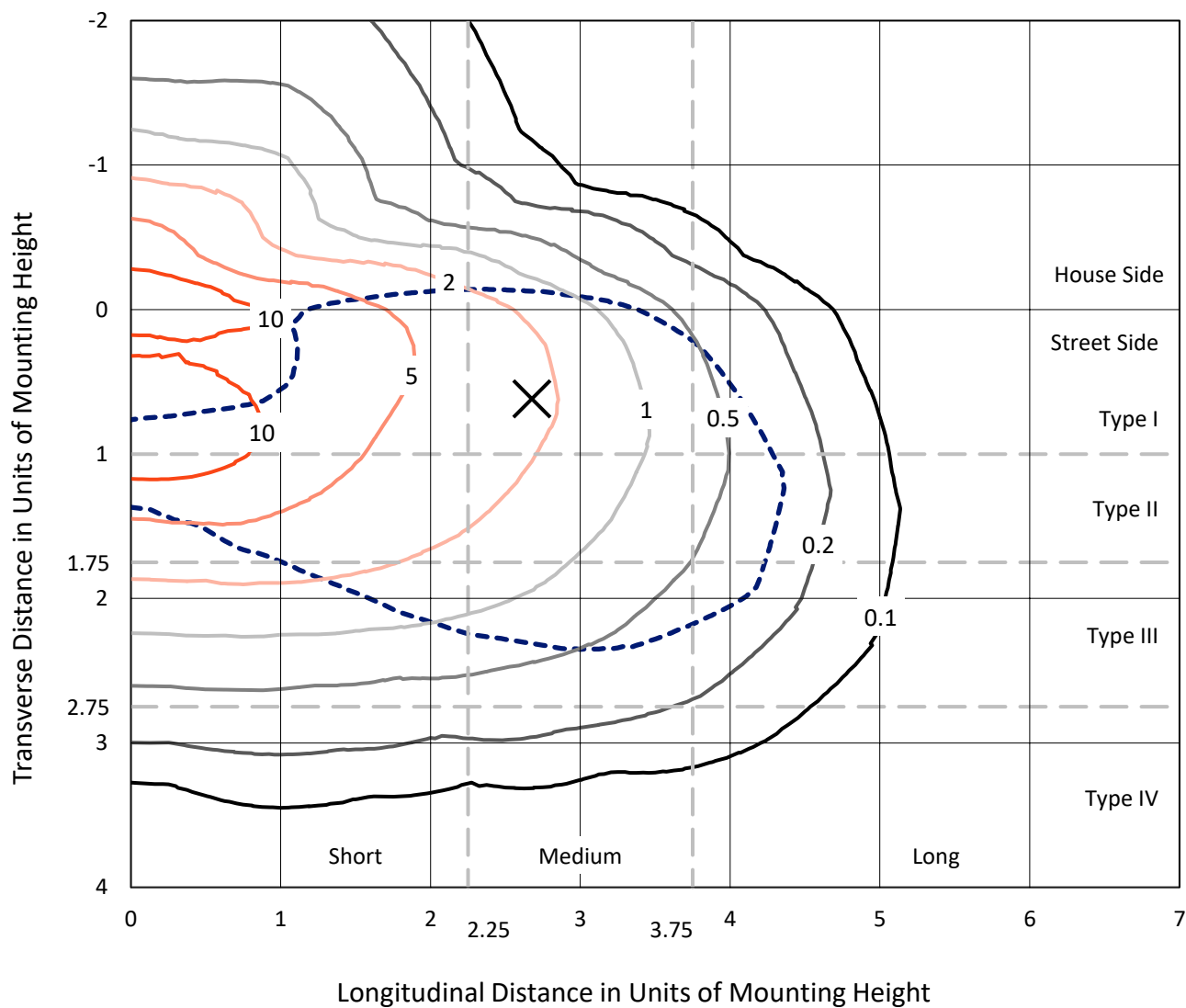
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

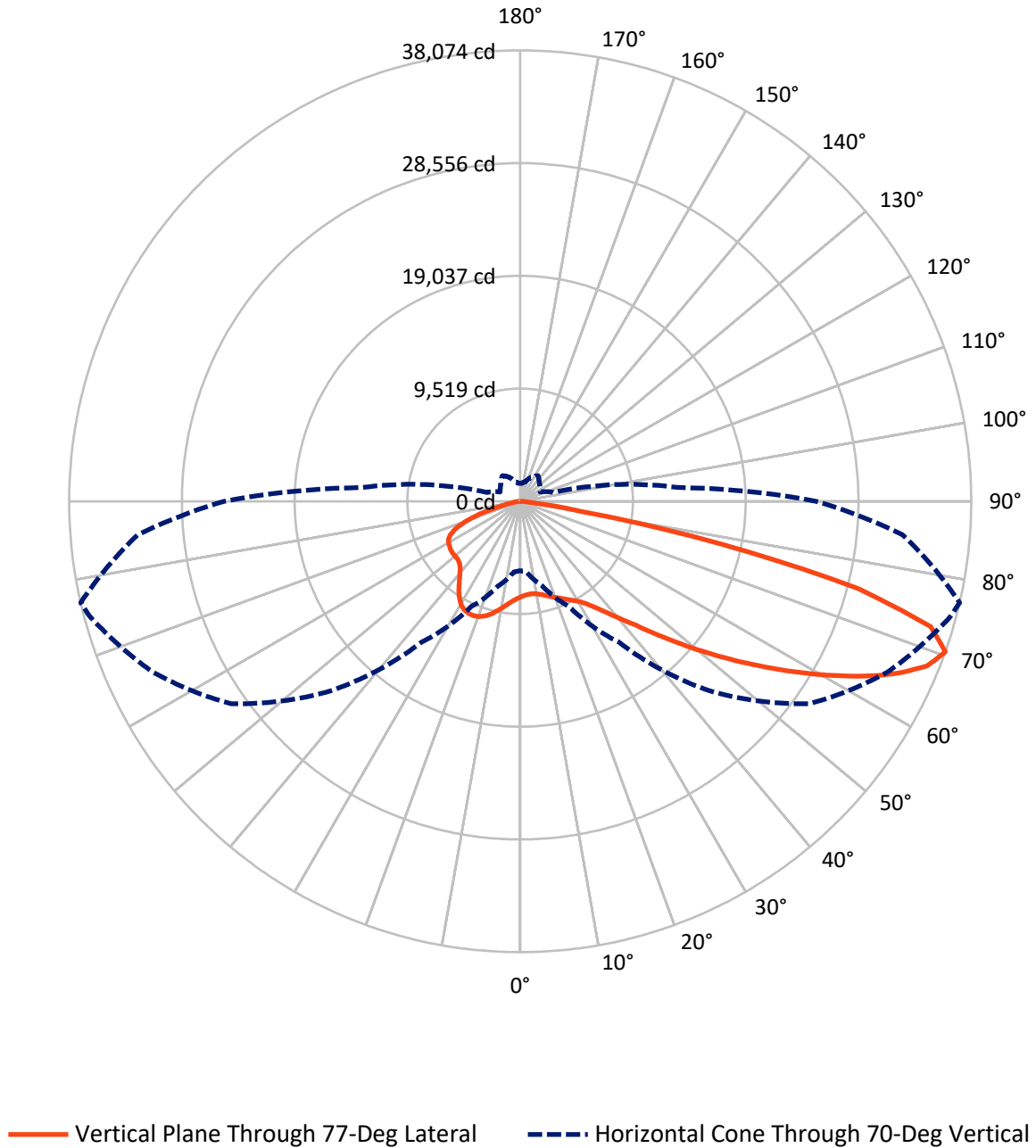
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 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	12668.0	0.0	12668.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	45181.0	0.0	45181.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	57849.0	0.0	57849.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	769.7	1.3
10°-20°	2221.4	3.8
20°-30°	3799.0	6.6
30°-40°	6109.1	10.6
40°-50°	9538.0	16.5
50°-60°	12740.5	22.0
60°-70°	13579.4	23.5
70°-80°	8359.4	14.5
80°-90°	732.5	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°	57849.0	100.0
0°-180°	57849.0	100.0

Coefficient of Utilization



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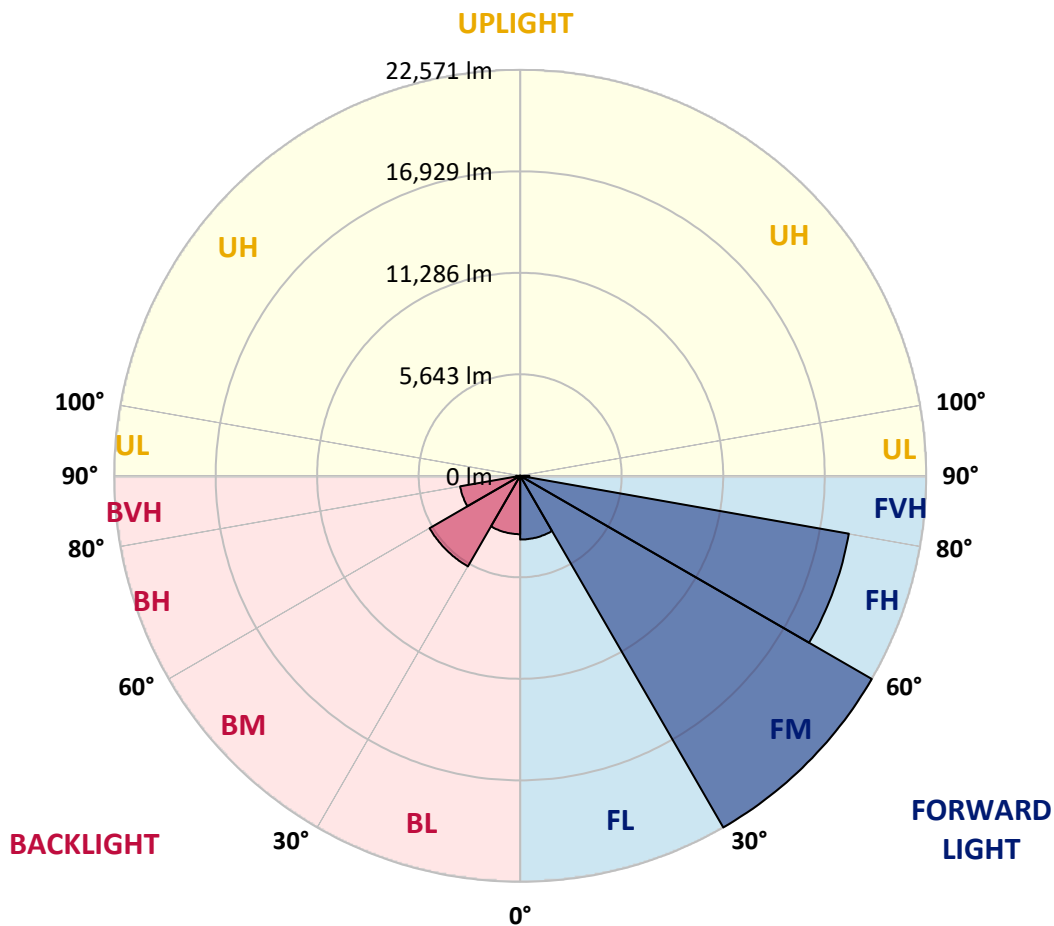
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3544.2	6.1			
FM	(30°-60°)	22571.4	39.0			
FH	(60°-80°)	18553.1	32.1			G5
FVH	(80°-90°)	512.2	0.9			G4/750
BL	(0°-30°)	3245.9	5.6	B4/5000		
BM	(30°-60°)	5816.2	10.1	B4/8500		
BH	(60°-80°)	3385.6	5.9	B4/5000		G4/5000
BVH	(80°-90°)	220.3	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°	8070.5	8070.5	8070.5	8070.5	8070.5	8070.5	8070.5	8070.5	8070.5	8070.5	8070.5
2.5°	7439.4	7436.4	7475.0	7486.8	7557.9	7608.3	7703.1	7803.8	7934.2	7949.0	8029.0
5°	7009.8	7009.8	7054.2	7101.7	7193.5	7294.2	7439.4	7614.2	7839.4	7874.9	8073.4
7.5°	6645.4	6669.1	6707.6	6799.5	6906.1	7051.3	7273.5	7522.4	7818.6	7874.9	8194.9
10°	6352.1	6378.7	6426.2	6500.2	6660.2	6861.7	7152.0	7472.0	7869.0	7957.9	8372.7
12.5°	6260.2	6286.9	6313.6	6369.9	6518.0	6755.0	7101.7	7495.7	7990.5	8079.4	8615.6
15°	6473.6	6506.1	6485.4	6470.6	6547.6	6763.9	7125.4	7581.6	8141.6	8269.0	8914.8
17.5°	6965.4	6977.2	6929.8	6790.6	6778.7	6894.3	7237.9	7700.1	8331.2	8470.4	9217.0
20°	7759.4	7738.6	7640.9	7365.3	7208.3	7184.6	7430.5	7877.9	8526.7	8674.9	9542.9
22.5°	8837.8	8814.1	8618.6	8183.0	7833.4	7602.4	7709.0	8109.0	8746.0	8911.9	9859.9
25°	10182.9	10150.3	9862.9	9270.4	8728.2	8156.4	8088.2	8414.1	9015.6	9169.6	10191.8
27.5°	11753.1	11726.5	11415.4	10633.2	9851.1	8914.8	8559.3	8772.6	9297.0	9471.8	10565.1
30°	13441.9	13518.9	12967.8	12126.4	11136.9	9904.4	9193.3	9214.1	9661.4	9818.5	11018.4
32.5°	15426.9	15560.2	14896.6	13830.0	12479.0	10979.9	9993.3	9830.3	10191.8	10322.1	11590.2
35°	17394.2	17545.3	16994.2	15815.0	14259.6	12247.9	10828.8	10538.4	10896.9	11039.1	12348.6
37.5°	19094.8	19296.2	19011.8	17986.7	16164.6	13776.7	11919.0	11370.9	11765.0	11942.7	13367.8
40°	20436.9	20745.0	20724.3	20084.3	18410.4	15631.3	13302.6	12399.0	12843.4	13036.0	14603.3
42.5°	21527.2	21793.8	22024.9	21992.3	20753.9	17737.8	14929.2	13735.2	14072.9	14295.1	15992.8
45°	22279.7	22564.1	23061.9	23598.1	23008.5	19992.5	16792.7	15320.3	15628.4	15963.2	17649.0
47.5°	22952.2	23275.2	23921.0	24771.3	24922.4	22256.0	18834.0	17166.0	17447.5	17794.1	19311.0
50°	23011.5	23290.0	24291.4	25497.2	26282.3	24430.6	21026.5	19237.0	19500.7	19871.0	21091.6
52.5°	21580.5	22019.0	23767.0	25476.5	26907.5	26249.7	23204.1	21390.9	21687.1	22131.6	22934.5
55°	16751.2	17394.2	22229.3	24682.5	26685.3	27425.9	25275.0	23681.1	24060.3	24525.4	24789.1
57.5°	14428.5	14709.9	17646.0	23236.7	25672.0	27731.1	27023.0	25995.0	26605.3	27114.9	26750.4
60°	12967.8	13201.9	14938.1	20987.9	24338.8	27248.2	28374.0	28151.8	29206.5	29813.9	28756.2
62.5°	11403.5	11625.7	13204.9	17524.5	22632.3	26445.3	29227.3	30142.8	31873.0	32536.6	30646.4
65°	9851.1	10040.7	11554.6	14724.7	20463.5	25642.4	29668.7	31864.1	34340.9	35028.3	32216.7
67.5°	8120.8	8277.9	9708.9	12422.7	17826.7	24543.2	29888.0	33218.1	36488.9	37078.5	32992.9
70°	5860.3	5981.7	7460.1	9824.4	14517.4	22653.0	29799.1	34178.0	37602.9	38074.0	32406.3
72.5°	2770.1	2879.8	4615.9	6378.7	10254.0	18973.3	28000.7	33416.6	36471.1	36237.1	28815.5
75°	1478.4	1573.2	2651.6	3499.0	5415.9	13006.4	22913.7	28785.8	30625.7	29488.0	21296.1
77.5°	1001.4	1075.5	1641.3	2100.6	2473.9	6174.3	14727.7	19930.3	19174.8	17296.4	10665.8
80°	794.0	871.0	1345.1	1422.1	1196.9	2230.9	6085.4	9225.9	6627.6	5300.3	3033.8
82.5°	610.3	696.2	1131.8	1031.0	651.8	915.5	1771.7	2918.3	1697.6	1291.7	734.8
85°	373.3	465.1	888.8	657.7	367.4	417.7	601.4	811.8	518.5	432.6	263.7
87.5°	189.6	266.6	450.3	240.0	165.9	97.8	160.0	160.0	136.3	118.5	68.1
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°	8070.5	8070.5	8070.5	8070.5	8070.5	8070.5	8070.5	8070.5	8070.5	8070.5	8070.5
2.5°	8100.1	8159.3	8260.1	8354.9	8429.0	8500.1	8571.2	8609.7	8621.5	8668.9	8695.6
5°	8194.9	8304.5	8500.1	8683.7	8799.3	8870.4	8920.8	8950.4	8956.3	8971.1	8994.8
7.5°	8369.7	8544.5	8817.1	9000.8	9086.7	9080.8	9060.0	8985.9	8956.3	8929.7	8935.6
10°	8615.6	8846.7	9181.5	9308.9	9255.6	9113.3	8929.7	8713.4	8612.6	8514.9	8485.2
12.5°	8920.8	9214.1	9542.9	9537.0	9273.3	8908.9	8482.3	8150.5	7940.1	7789.0	7753.5
15°	9291.1	9628.9	9880.7	9679.2	9101.5	8446.7	7821.6	7389.0	7199.4	7033.5	7015.7
17.5°	9673.3	10034.7	10150.3	9634.8	8668.9	7762.3	7054.2	6713.5	6526.9	6438.0	6464.7
20°	10046.6	10405.1	10310.3	9380.0	8011.2	6986.1	6355.0	6168.4	6129.9	6150.6	6141.7
22.5°	10440.6	10760.6	10342.9	8888.2	7172.8	6192.1	5845.5	5851.4	5937.3	5999.5	6014.3
25°	10843.6	11059.9	10257.0	8177.1	6272.1	5608.4	5522.5	5617.3	5786.2	5907.7	5940.3
27.5°	11231.7	11326.5	10070.3	7297.2	5498.8	5190.7	5205.5	5401.0	5655.8	5824.7	5866.2
30°	11670.2	11563.5	9711.8	6307.6	4962.6	4832.2	4956.6	5184.8	5439.6	5590.7	5626.2
32.5°	12164.9	11767.9	9143.0	5392.2	4583.3	4544.8	4749.2	4897.4	5010.0	5054.4	5078.1
35°	12781.2	12055.3	8414.1	4749.2	4242.6	4334.5	4530.0	4455.9	4411.5	4387.8	4411.5
37.5°	13581.1	12443.4	7560.9	4331.5	3967.1	4183.4	4263.4	4032.3	3857.5	3771.5	3792.3
40°	14544.0	13012.3	6740.2	4008.6	3792.3	4053.0	3913.8	3635.3	3413.1	3291.6	3300.5
42.5°	15613.6	13607.8	6049.9	3765.6	3694.5	3946.3	3656.0	3324.2	2965.7	2927.2	2965.7
45°	16736.4	14221.1	5578.8	3579.0	3647.1	3854.5	3507.9	2971.6	2716.8	2873.8	2956.8
47.5°	17859.3	14784.0	5294.4	3439.7	3623.4	3750.8	3377.5	2776.1	2595.3	2823.5	2930.1
50°	19109.6	15287.7	5167.0	3339.0	3596.7	3709.3	3182.0	2725.7	2468.0	2619.0	2731.6
52.5°	20351.0	15678.7	5072.2	3238.3	3558.2	3676.7	3087.2	2666.5	2313.9	2322.8	2385.0
55°	21589.4	15933.5	4968.5	3104.9	3472.3	3605.6	3078.3	2601.3	2198.3	2156.9	2186.5
57.5°	22910.8	16078.7	4841.1	2956.8	3324.2	3424.9	3069.4	2550.9	2162.8	2094.6	2103.5
60°	24255.8	16292.0	4675.2	2776.1	3125.7	3208.6	3048.6	2533.1	2142.1	2026.5	2035.4
62.5°	25461.7	16366.1	4476.7	2604.2	2870.9	2995.3	3004.2	2518.3	2085.8	1887.3	1887.3
65°	26252.7	16046.1	4130.0	2408.7	2595.3	2776.1	2918.3	2468.0	1985.0	1786.5	1786.5
67.5°	26220.1	15133.6	3587.9	2156.9	2328.7	2533.1	2793.8	2382.0	1863.6	1662.1	1671.0
70°	24999.5	13332.3	2900.5	1863.6	2035.4	2272.4	2633.9	2254.6	1718.4	1525.8	1543.6
72.5°	21441.2	10434.7	2106.5	1519.9	1694.7	2002.8	2426.5	2100.6	1570.2	1404.3	1395.4
75°	15317.3	6603.9	1428.0	1167.3	1318.4	1697.6	2168.7	1919.8	1434.0	1410.3	1330.3
77.5°	7824.6	3155.3	945.1	853.3	918.4	1339.2	1822.1	1715.4	1454.7	1164.4	1037.0
80°	2545.0	1164.4	595.5	580.7	610.3	891.8	1410.3	1407.3	1102.1	791.0	699.2
82.5°	811.8	500.7	388.1	373.3	358.5	560.0	983.6	1114.0	743.6	500.7	497.7
85°	322.9	299.2	228.1	210.4	151.1	263.7	515.5	740.7	554.0	361.5	370.3
87.5°	118.5	118.5	62.2	44.4	32.6	88.9	139.2	222.2	317.0	186.7	183.7
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)