

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: P956995

Luminaire Tested: **GALN-SB9C-727-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-727-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62887 lumens
Efficiency: N/A
Efficacy: 139.8 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): 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

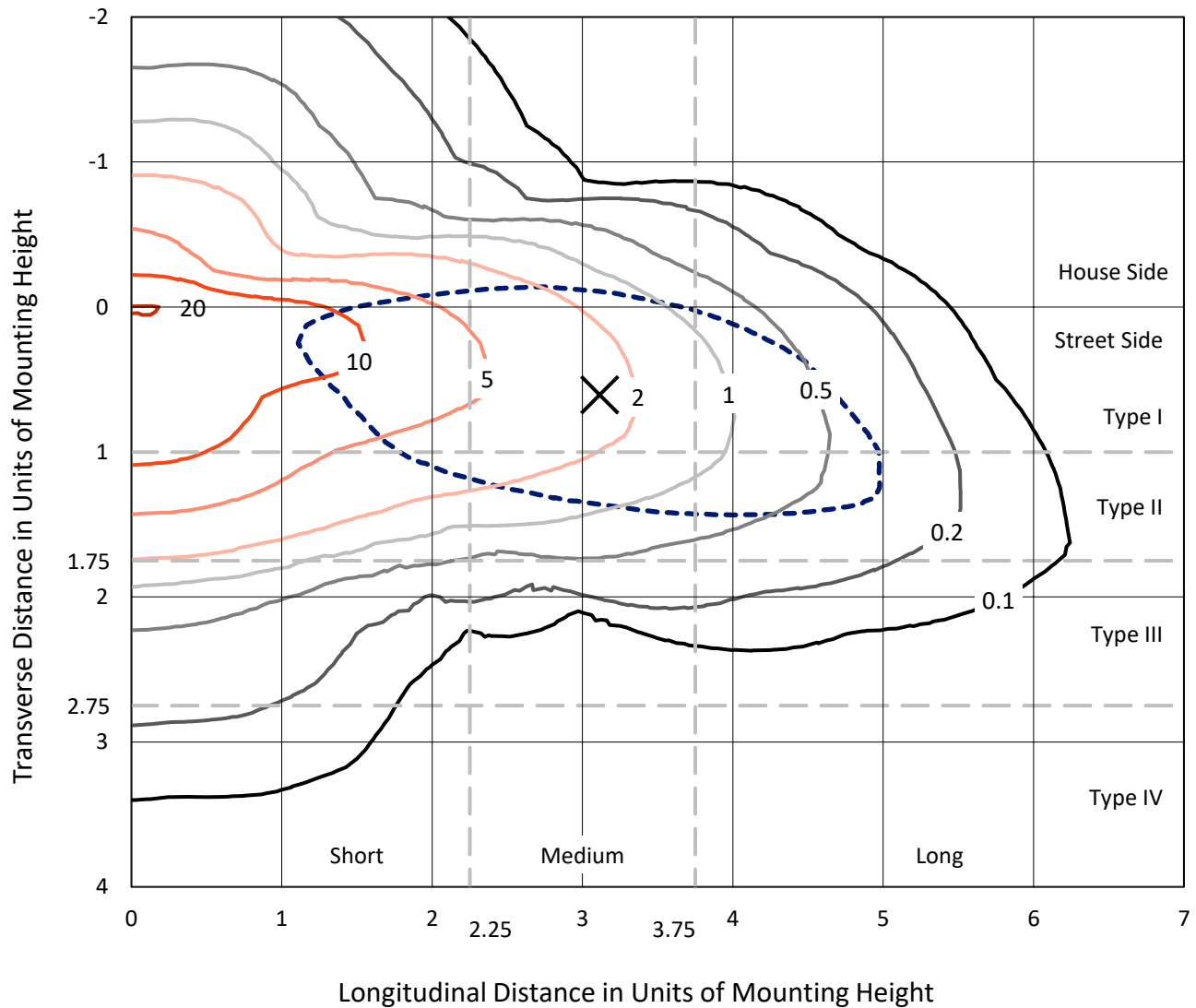


REPORT NUMBER: P956995

CATALOG NUMBER: GALN-SB9C-727-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

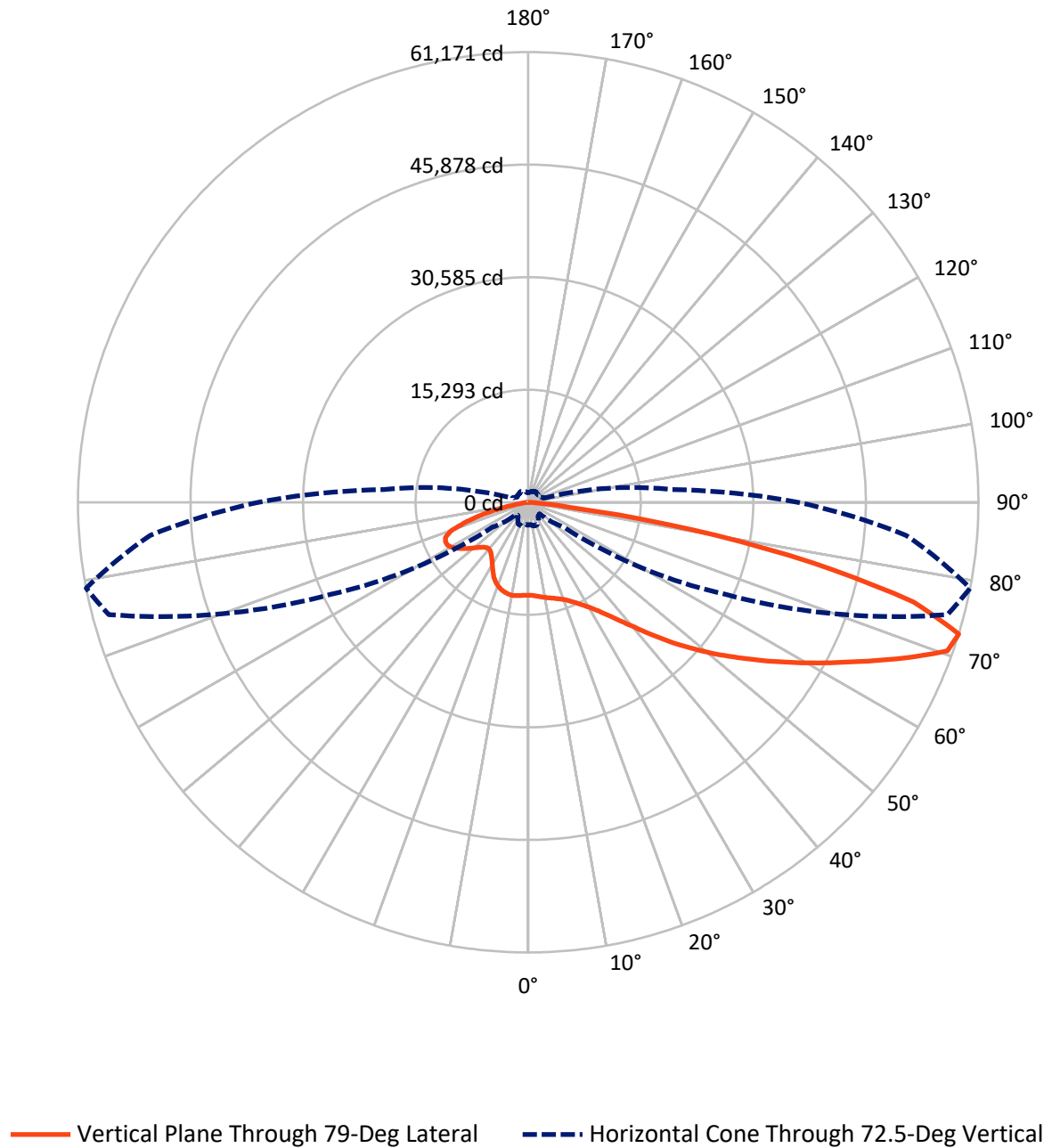
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 fc
Type II - Medium - N/A

REPORT NUMBER: P956995
CATALOG NUMBER: GALN-SB9C-727-U-SL2

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13838.6	0.0	13838.6
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	49048.4	0.0	49048.4
	% Fixture	78.0	0.0	78.0
Total	Lumens	62887.0	0.0	62887.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1145.9	1.8
10°-20°	2995.9	4.8
20°-30°	4834.2	7.7
30°-40°	7255.5	11.5
40°-50°	10292.3	16.4
50°-60°	12997.8	20.7
60°-70°	13201.0	21.0
70°-80°	8997.1	14.3
80°-90°	1167.3	1.9
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°	62887.0	100.0
0°-180°	62887.0	100.0

Coefficient of Utilization



REPORT NUMBER: P956995

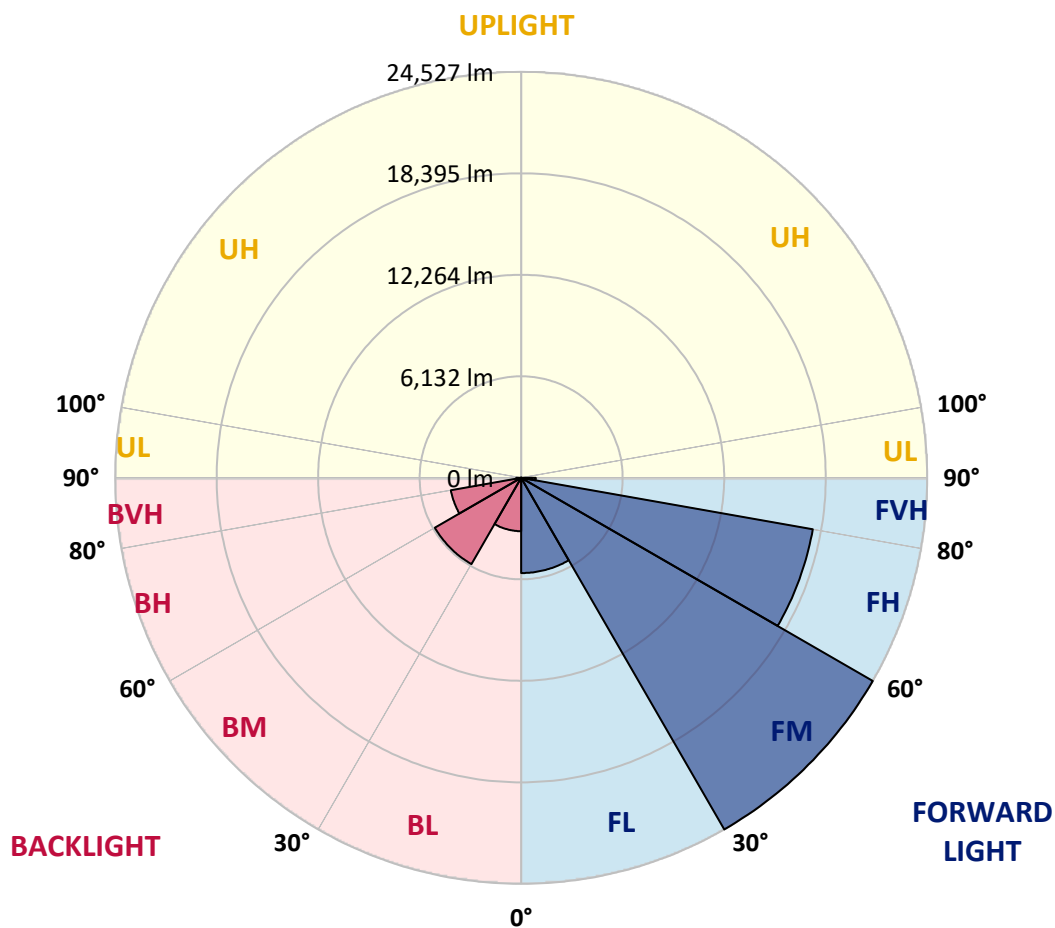
CATALOG NUMBER: GALN-SB9C-727-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5752.6	9.1			
FM	(30°-60°)	24527.2	39.0			
FH	(60°-80°)	17889.2	28.4			G5
FVH	(80°-90°)	879.3	1.4			G5
BL	(0°-30°)	3223.4	5.1	B4/5000		
BM	(30°-60°)	6018.3	9.6	B4/8500		
BH	(60°-80°)	4308.9	6.9	B4/5000		G4/5000
BVH	(80°-90°)	288.0	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



REPORT NUMBER: P956995

CATALOG NUMBER: GALN-SB9C-727-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	12624.0	12624.0	12624.0	12624.0	12624.0	12624.0	12624.0	12624.0	12624.0	12624.0	12624.0
2.5°	12630.6	12570.7	12607.3	12594.0	12610.7	12630.6	12637.3	12647.3	12680.5	12677.2	12673.9
5°	12604.0	12544.1	12594.0	12577.4	12620.6	12667.2	12707.1	12743.7	12796.9	12820.2	12787.0
7.5°	12547.5	12507.5	12557.4	12607.3	12687.2	12757.0	12813.6	12896.7	12973.2	12986.6	13009.8
10°	12218.1	12188.2	12304.6	12434.4	12653.9	12843.5	12966.6	13063.1	13146.2	13159.5	13192.8
12.5°	11875.5	11838.9	11968.7	12145.0	12500.9	12843.5	13103.0	13229.4	13302.6	13345.8	13395.7
15°	11819.0	11789.0	11862.2	12015.2	12311.3	12753.7	13196.1	13429.0	13492.2	13542.1	13562.0
17.5°	12091.7	12035.2	12065.1	12118.3	12291.3	12670.5	13269.3	13655.2	13751.6	13804.9	13804.9
20°	12723.8	12643.9	12597.4	12490.9	12461.0	12683.8	13262.7	13927.9	14054.4	14120.9	14137.5
22.5°	13565.4	13512.1	13412.3	13142.9	12850.2	12846.8	13389.1	14277.2	14513.4	14576.6	14536.7
25°	14583.3	14503.4	14377.0	14011.1	13448.9	13169.5	13602.0	14723.0	15118.8	15135.5	15019.0
27.5°	15754.2	15634.4	15461.4	14979.1	14220.7	13675.1	13927.9	15235.2	15814.1	15807.4	15567.9
30°	16988.3	16868.5	16685.6	16100.1	15145.4	14357.1	14380.3	15787.4	16639.0	16602.4	16193.3
32.5°	17889.8	17800.0	17763.4	17311.0	16209.9	15162.1	14899.3	16399.5	17656.9	17623.7	17051.5
35°	18581.7	18465.3	18508.5	18279.0	17370.8	16063.5	15534.6	17128.0	18894.4	18891.0	18179.2
37.5°	19266.9	19163.8	19200.4	19047.4	18445.3	17207.8	16309.7	18019.5	20427.9	20501.1	19543.0
40°	19892.3	19782.5	19928.9	19785.9	19280.2	18425.3	17191.2	19027.4	22204.2	22343.9	21193.0
42.5°	20268.2	20181.7	20424.5	20427.9	20005.4	19453.2	18159.2	20138.5	24260.0	24572.7	23222.1
45°	20397.9	20368.0	20733.9	20810.4	20647.4	20048.7	19030.8	21349.3	26475.4	27034.3	25534.0
47.5°	20258.2	20201.7	20707.3	20990.0	21119.8	20328.1	19752.6	22659.9	28737.4	29555.7	28055.5
50°	19553.0	19443.2	20195.0	20790.5	21252.8	20511.0	20481.1	24173.5	31308.8	32203.6	30590.3
52.5°	18285.6	18202.5	19057.4	20091.9	20960.1	20600.9	21299.4	25826.7	33750.4	34908.0	33188.2
55°	16665.6	16555.9	17497.3	18847.8	20231.6	20570.9	22117.7	27676.3	36631.1	37805.4	35872.7
57.5°	14097.6	13878.0	15068.9	16665.6	19044.1	20534.3	22969.3	29515.8	39558.4	40965.5	38736.8
60°	10352.0	10026.0	11486.3	13379.1	16722.2	20178.4	24023.8	31578.2	43071.2	44338.6	41863.7
62.5°	6027.6	5838.0	6792.7	8559.0	12604.0	18082.7	24615.9	33976.6	46524.1	47854.6	44937.3
65°	4680.3	4627.1	4710.3	4846.7	7015.5	13538.7	22789.7	36315.1	50915.0	51846.4	48140.7
67.5°	4281.2	4241.3	4277.8	4021.7	3559.3	7541.1	18029.5	36907.2	55618.6	56184.1	50944.9
70°	3805.5	3758.9	3878.7	3659.1	2800.9	3429.6	11649.3	34758.3	59360.9	60422.1	53077.2
72.5°	3100.3	3047.0	3326.5	3226.7	2358.5	2202.1	5851.3	29652.2	58968.4	61170.5	51550.4
75°	2381.8	2351.8	2684.5	2767.6	1922.7	1733.1	2807.5	22041.2	51893.0	54111.7	44428.4
77.5°	1849.5	1826.2	1995.9	2298.6	1550.1	1343.9	1726.4	13981.2	39106.0	39495.2	30616.9
80°	1387.1	1320.6	1477.0	1779.7	1207.5	981.3	1170.9	8153.2	24719.0	22407.1	13325.9
82.5°	868.2	834.9	964.7	1187.6	851.6	675.3	761.8	4504.0	9906.2	5834.6	2571.4
85°	495.6	482.3	525.6	678.6	462.4	389.2	435.8	1989.2	1809.6	1244.1	775.1
87.5°	199.6	192.9	239.5	302.7	169.7	143.0	153.0	479.0	399.2	369.2	256.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P956995

CATALOG NUMBER: GALN-SB9C-727-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12624.0	12624.0	12624.0	12624.0	12624.0	12624.0	12624.0	12624.0	12624.0	12624.0	12624.0
2.5°	12660.6	12660.6	12614.0	12540.8	12457.6	12404.4	12317.9	12294.6	12204.8	12178.2	12221.5
5°	12813.6	12787.0	12643.9	12437.7	12154.9	11895.5	11609.4	11429.8	11177.0	11087.1	11153.7
7.5°	13006.5	12933.3	12687.2	12234.8	11642.7	11060.5	10455.1	9996.1	9557.0	9400.6	9420.6
10°	13182.8	13079.7	12660.6	11868.9	10844.3	9836.4	8871.7	8196.4	7684.2	7474.6	7521.2
12.5°	13359.1	13169.5	12484.3	11260.1	9710.0	8342.8	7314.9	6789.3	6473.3	6220.5	6303.7
15°	13525.4	13259.3	12211.5	10445.1	8465.9	7078.7	6320.3	5901.2	5648.4	5482.0	5512.0
17.5°	13718.4	13335.8	11802.3	9410.6	7281.7	6203.9	5585.1	5332.3	5282.4	5262.5	5275.8
20°	13987.8	13405.7	11263.4	8253.0	6410.1	5505.3	5186.0	5162.7	5159.4	5149.4	5182.6
22.5°	14277.2	13488.9	10551.6	7201.8	5668.3	5069.5	5013.0	4966.4	4936.5	4933.2	4969.8
25°	14619.9	13515.5	9660.1	6340.3	5036.3	4863.3	4796.8	4726.9	4707.0	4707.0	4726.9
27.5°	14952.5	13425.6	8622.2	5591.8	4680.3	4673.7	4587.2	4563.9	4560.6	4570.6	4597.2
30°	15285.1	13256.0	7591.0	4899.9	4474.1	4474.1	4444.2	4460.8	4474.1	4507.4	4530.7
32.5°	15734.2	13076.4	6729.5	4387.6	4294.5	4261.2	4291.2	4324.4	4337.7	4381.0	4417.6
35°	16392.9	12950.0	6044.2	4108.2	4108.2	4065.0	4081.6	4074.9	4045.0	4025.0	4071.6
37.5°	17264.4	12943.3	5478.7	3978.5	3951.9	3945.2	3948.5	3905.3	3788.9	3649.1	3652.5
40°	18312.2	13122.9	5042.9	3888.6	3868.7	3908.6	3888.6	3772.2	3452.9	3210.0	3203.4
42.5°	19719.3	13635.2	4763.5	3778.9	3838.8	3888.6	3808.8	3406.3	3190.1	3027.1	3020.4
45°	21375.9	14466.8	4620.5	3662.4	3782.2	3842.1	3456.2	3279.9	3106.9	2910.7	2897.4
47.5°	23252.1	15514.7	4587.2	3552.7	3655.8	3692.4	3306.5	3226.7	3030.4	2817.5	2800.9
50°	25294.5	16755.4	4677.0	3422.9	3472.8	3346.4	3256.6	3183.4	2980.5	2771.0	2747.7
52.5°	27406.8	18122.6	4856.7	3246.6	3289.9	3150.2	3236.7	3173.5	2950.6	2667.8	2647.9
55°	29482.5	19499.8	5029.6	3040.4	3103.6	2973.9	3180.1	3133.5	2814.2	2494.9	2478.2
57.5°	31591.5	20870.3	5199.3	2857.4	2924.0	2804.2	3090.3	3027.1	2661.2	2335.2	2328.5
60°	33783.7	22200.9	5279.1	2681.1	2727.7	2647.9	2953.9	2844.1	2488.2	2172.2	2162.2
62.5°	35836.1	23308.6	5149.4	2504.8	2534.8	2501.5	2774.3	2627.9	2315.2	1989.2	1985.9
65°	37895.2	23967.2	4750.2	2331.9	2338.5	2321.9	2521.5	2395.1	2112.3	1829.6	1809.6
67.5°	39761.3	24336.5	4114.8	2145.6	2128.9	2122.3	2285.3	2142.2	1916.0	1669.9	1649.9
70°	40157.2	23398.4	3143.5	1926.0	1926.0	1909.4	2025.8	1879.5	1699.8	1500.2	1493.6
72.5°	36677.7	19682.7	2232.1	1676.5	1703.2	1669.9	1766.4	1643.3	1480.3	1347.2	1307.3
75°	29575.7	14433.6	1623.3	1420.4	1467.0	1410.4	1500.2	1413.8	1274.0	1270.7	1144.3
77.5°	20321.4	8924.9	1177.6	1170.9	1204.2	1131.0	1234.1	1187.6	1061.1	1004.6	941.4
80°	8672.1	3559.3	858.2	904.8	904.8	838.3	958.0	971.3	861.6	834.9	834.9
82.5°	1726.4	1011.2	602.1	622.1	585.5	565.5	678.6	751.8	1037.9	1154.3	1157.6
85°	518.9	372.6	362.6	339.3	299.4	302.7	399.2	755.1	931.4	532.2	459.1
87.5°	143.0	93.1	96.5	76.5	63.2	83.2	136.4	572.2	312.7	133.1	113.1
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)