

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: P947001

Luminaire Tested: **GALN-SB2C-727-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947001
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-SB2C-727-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 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: 13577 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 100.9
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

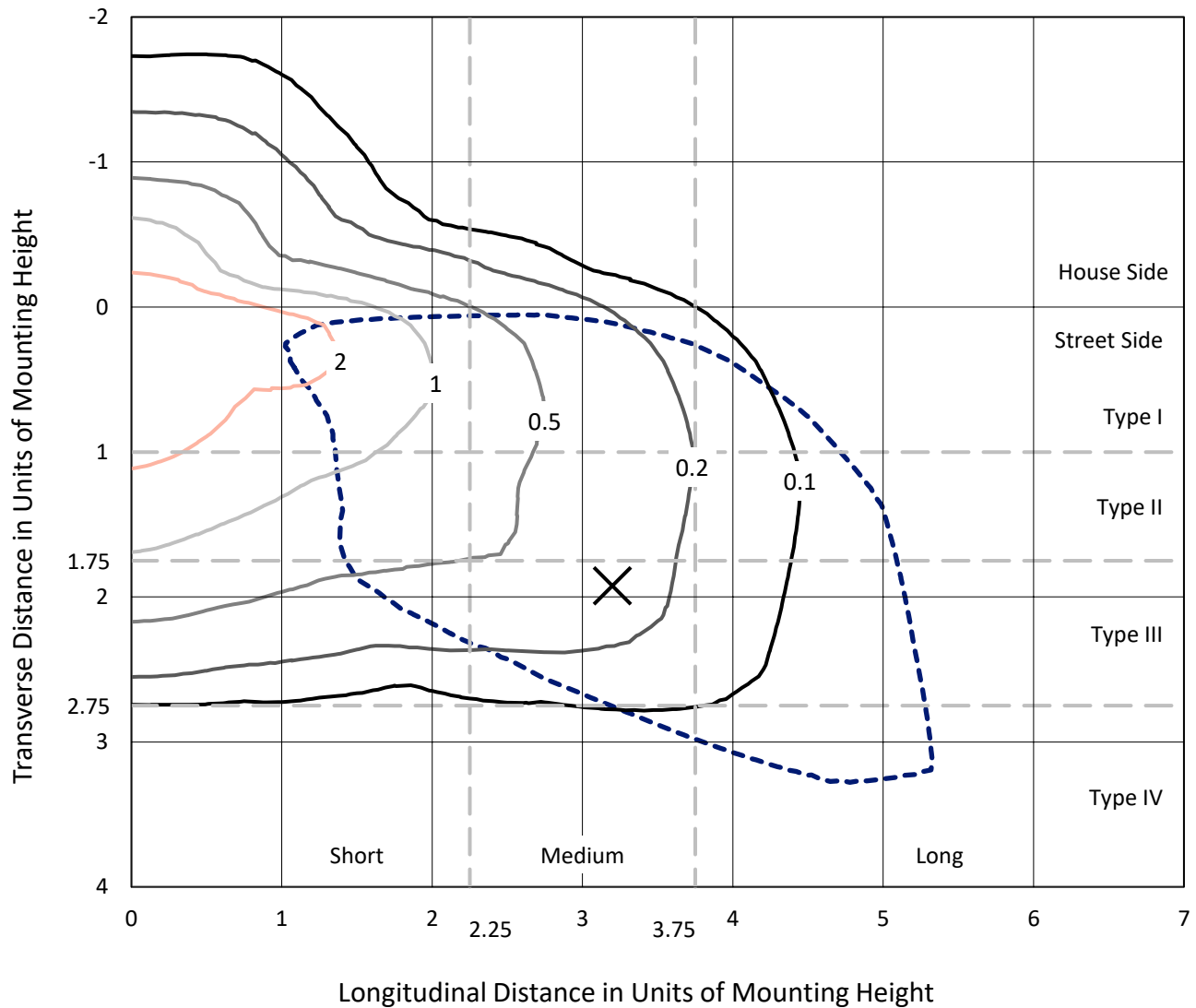


REPORT NUMBER: P947001

CATALOG NUMBER: GALN-SB2C-727-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

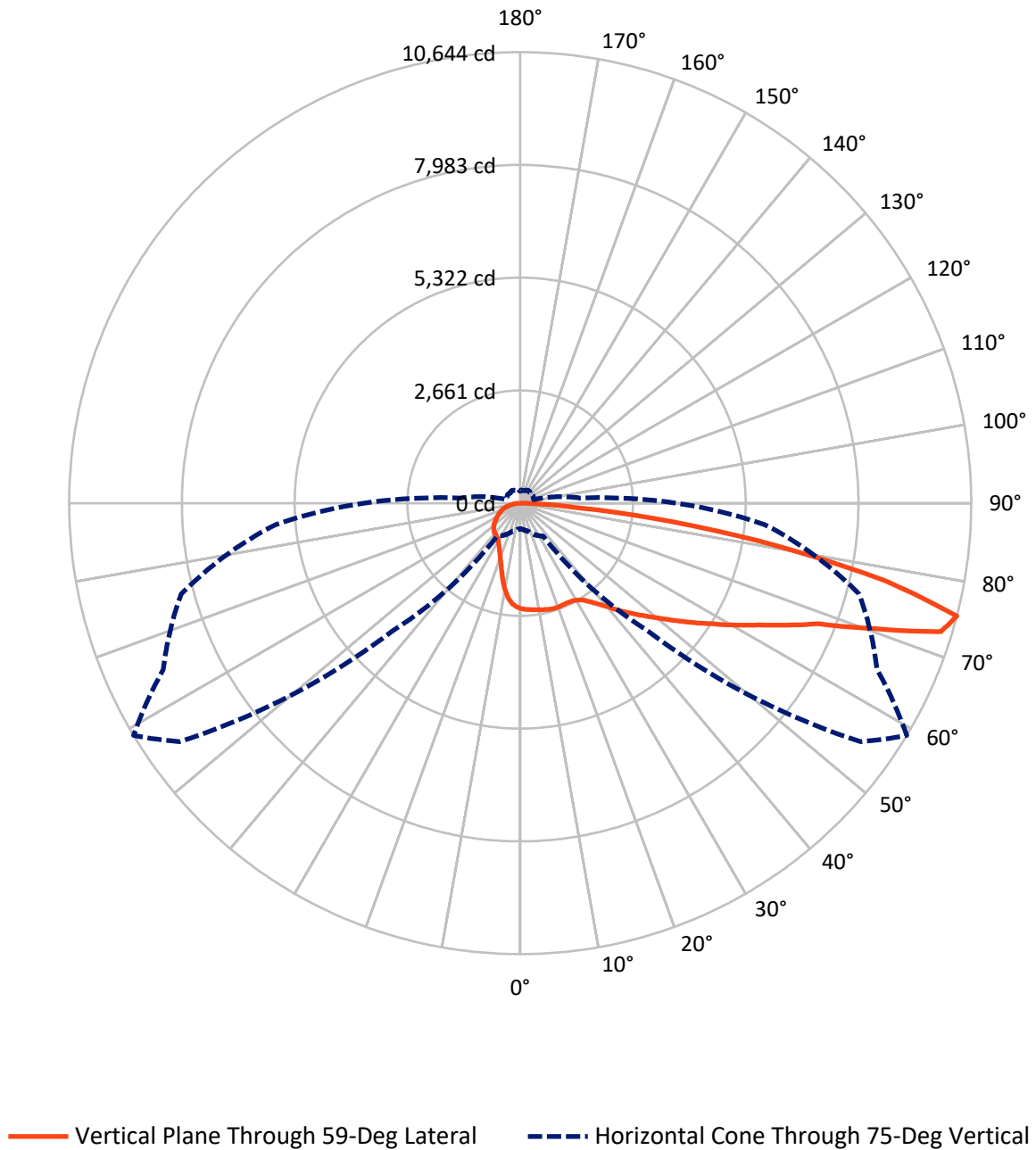
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
Type IV - Medium - N/A

REPORT NUMBER: P947001
CATALOG NUMBER: GALN-SB2C-727-U-SL3

Luminous Intensity Polar Plot



REPORT NUMBER: P947001

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2546.5	0.0	2546.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	11030.5	0.0	11030.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	13577.0	0.0	13577.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.4	1.6
10°-20°	571.2	4.2
20°-30°	867.5	6.4
30°-40°	1289.6	9.5
40°-50°	1917.8	14.1
50°-60°	2603.2	19.2
60°-70°	3178.1	23.4
70°-80°	2494.1	18.4
80°-90°	432.0	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°	13577.0	100.0
0°-180°	13577.0	100.0

Coefficient of Utilization



REPORT NUMBER: P947001

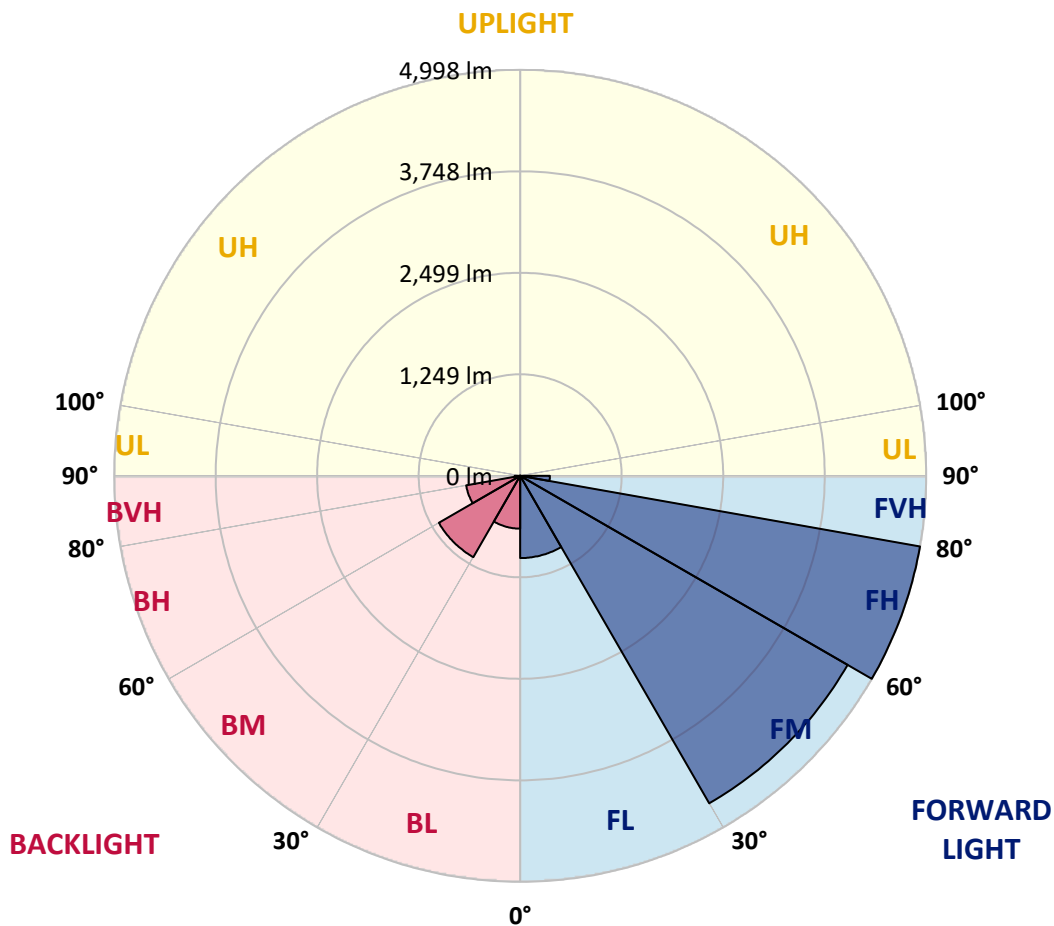
CATALOG NUMBER: GALN-SB2C-727-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1012.3	7.5			
FM	(30°-60°)	4654.8	34.3			
FH	(60°-80°)	4997.6	36.8			G2/5000
FVH	(80°-90°)	365.9	2.7			G3/500
BL	(0°-30°)	649.8	4.8	B2/1000		
BM	(30°-60°)	1155.8	8.5	B2/2500		
BH	(60°-80°)	674.7	5.0	B2/1000		G2/1000
BVH	(80°-90°)	66.1	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium



REPORT NUMBER: P947001

CATALOG NUMBER: GALN-SB2C-727-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2492.0	2492.0	2492.0	2492.0	2492.0	2492.0	2492.0	2492.0	2492.0	2492.0	2492.0
2.5°	2513.2	2504.4	2513.2	2509.6	2508.1	2505.2	2505.9	2511.0	2508.1	2511.7	2499.3
5°	2496.4	2491.3	2500.1	2497.9	2507.4	2508.8	2518.3	2524.2	2527.8	2528.5	2519.1
7.5°	2468.7	2463.5	2476.0	2486.2	2506.6	2512.5	2532.2	2541.7	2546.8	2555.6	2541.7
10°	2367.1	2364.9	2395.6	2434.3	2482.5	2512.5	2542.4	2558.5	2566.5	2589.9	2573.8
12.5°	2187.5	2190.4	2230.6	2305.1	2401.5	2497.9	2554.1	2577.5	2589.9	2619.1	2611.8
15°	2015.8	2015.1	2058.9	2138.5	2273.6	2433.6	2560.0	2600.1	2621.3	2664.4	2658.6
17.5°	1916.5	1913.6	1944.2	2004.9	2130.5	2335.0	2545.3	2612.5	2657.8	2711.9	2706.8
20°	1898.2	1892.4	1908.5	1938.4	2027.5	2226.9	2507.4	2612.5	2687.0	2757.2	2754.2
22.5°	1964.7	1955.2	1948.6	1945.0	1984.4	2137.8	2464.3	2603.8	2730.1	2822.2	2817.0
25°	2098.4	2083.8	2050.2	2017.3	2005.6	2097.6	2426.3	2601.6	2794.4	2909.8	2890.8
27.5°	2314.5	2296.3	2228.4	2149.5	2078.6	2118.1	2409.5	2614.7	2865.2	3002.6	2964.6
30°	2582.6	2562.9	2477.4	2356.2	2229.1	2194.0	2430.7	2653.4	2955.8	3126.0	3051.5
32.5°	2822.9	2801.0	2727.9	2604.5	2432.9	2325.5	2497.9	2727.2	3098.2	3297.6	3182.2
35°	3036.2	3010.6	2944.9	2830.9	2682.7	2510.3	2619.1	2857.9	3300.5	3576.6	3359.7
37.5°	3245.0	3215.1	3143.5	3023.0	2919.3	2756.4	2786.4	3025.9	3569.3	3915.5	3594.9
40°	3478.8	3435.7	3348.8	3229.7	3128.9	3044.9	3006.2	3231.9	3842.5	4293.9	3888.5
42.5°	3705.2	3664.3	3560.6	3459.0	3332.7	3308.6	3261.1	3472.9	4141.2	4709.4	4186.5
45°	3949.1	3900.2	3774.6	3646.0	3566.4	3483.9	3508.0	3713.9	4434.1	5133.1	4499.1
47.5°	4177.7	4122.9	3974.7	3831.5	3787.7	3631.4	3734.4	3979.1	4738.7	5562.5	4808.8
50°	4301.2	4247.1	4123.7	3994.4	3960.1	3813.3	3979.8	4270.5	5057.8	5990.5	5106.0
52.5°	4404.1	4345.7	4184.3	4112.7	4102.5	4011.2	4282.2	4603.5	5377.0	6368.8	5393.1
55°	4513.7	4448.7	4242.7	4178.5	4225.2	4233.2	4640.8	4981.1	5714.4	6737.7	5664.0
57.5°	4640.1	4557.5	4299.0	4234.0	4345.0	4493.2	5052.7	5372.6	6046.0	7079.5	5905.1
60°	4759.1	4675.8	4407.1	4322.3	4474.3	4794.9	5525.3	5846.6	6421.4	7384.1	6132.9
62.5°	4782.5	4713.8	4493.2	4492.5	4649.5	5146.9	6084.7	6325.0	6749.4	7685.0	6337.4
65°	4377.8	4334.8	4204.0	4485.9	4900.8	5653.8	6707.7	6937.1	7166.4	7947.9	6517.1
67.5°	3332.0	3337.8	3328.3	3872.4	4697.8	6382.0	7609.7	7592.2	7681.3	8243.0	6723.8
70°	1523.6	1557.9	1781.4	2673.2	3763.6	6466.0	9101.2	8874.0	8327.7	8625.0	6902.7
72.5°	823.1	849.4	940.7	1294.9	2262.7	5748.8	10215.7	10377.1	9187.3	8882.0	6706.3
75°	604.0	618.6	682.2	823.1	950.2	4272.7	9816.2	10644.4	9294.7	8282.4	5791.1
77.5°	452.1	458.7	510.5	652.2	486.4	2252.5	7843.5	8815.6	7956.7	6804.9	4277.8
80°	327.9	335.2	374.0	489.3	341.1	823.9	5385.8	6187.7	5449.3	4337.7	2132.0
82.5°	226.4	229.3	246.1	333.0	238.1	319.9	3055.9	3628.5	3042.0	1522.1	575.5
85°	136.6	140.2	147.5	194.3	135.1	151.9	1319.1	1364.3	909.3	363.7	178.9
87.5°	56.2	59.9	65.7	81.8	53.3	42.4	217.7	273.2	170.2	106.6	55.5
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: P947001

CATALOG NUMBER: GALN-SB2C-727-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2492.0	2492.0	2492.0	2492.0	2492.0	2492.0	2492.0	2492.0	2492.0	2492.0	2492.0
2.5°	2495.7	2490.6	2476.7	2457.7	2440.2	2418.3	2408.8	2400.7	2393.4	2379.6	2373.0
5°	2511.0	2497.1	2459.9	2411.7	2356.9	2297.0	2238.6	2198.4	2164.1	2138.5	2117.3
7.5°	2534.4	2508.1	2440.2	2341.6	2215.9	2087.4	1971.3	1888.7	1826.7	1804.0	1764.6
10°	2558.5	2527.1	2408.8	2234.9	2018.0	1820.1	1666.0	1581.3	1531.6	1515.5	1490.7
12.5°	2587.0	2541.0	2359.8	2086.7	1796.7	1579.8	1445.4	1395.7	1370.2	1361.4	1363.6
15°	2628.6	2552.6	2286.1	1901.2	1585.6	1404.5	1317.6	1283.3	1270.1	1269.4	1272.3
17.5°	2660.0	2554.8	2171.4	1702.5	1423.5	1298.6	1227.0	1213.9	1222.6	1235.8	1240.9
20°	2695.1	2535.1	2020.9	1521.4	1309.6	1205.8	1175.9	1184.7	1205.8	1224.8	1231.4
22.5°	2719.9	2499.3	1839.1	1380.4	1211.0	1152.5	1151.1	1169.3	1181.0	1190.5	1195.6
25°	2741.8	2438.7	1646.3	1262.1	1129.9	1120.4	1136.5	1130.6	1122.6	1130.6	1135.7
27.5°	2757.9	2343.0	1473.9	1158.4	1072.9	1098.5	1089.0	1075.8	1075.1	1079.5	1086.8
30°	2752.8	2215.2	1332.2	1059.8	1032.7	1057.6	1034.9	1032.7	1030.6	1032.7	1040.8
32.5°	2752.8	2069.9	1223.4	991.8	1007.2	997.7	995.5	990.4	981.6	980.9	990.4
35°	2768.1	1924.5	1129.9	955.3	986.0	963.4	964.8	952.4	934.1	925.4	934.1
37.5°	2799.5	1807.7	1037.1	937.8	948.8	948.0	942.2	921.0	888.9	861.1	870.6
40°	2875.5	1773.3	973.6	929.8	931.2	940.0	924.7	883.7	810.7	765.4	771.3
42.5°	2994.5	1831.0	959.7	910.0	919.5	928.3	898.4	803.4	751.6	724.5	724.5
45°	3145.7	1931.8	989.7	881.6	891.8	907.1	818.0	772.7	749.4	750.1	753.7
47.5°	3337.1	2037.7	1045.2	856.7	851.6	860.4	764.7	736.9	704.8	712.8	733.3
50°	3558.4	2145.1	1097.7	823.1	807.1	778.6	730.4	704.1	663.2	644.2	649.3
52.5°	3797.9	2248.8	1118.9	782.2	758.9	726.0	707.0	674.9	625.2	593.8	593.1
55°	4025.1	2343.0	1095.6	733.3	710.7	685.1	682.2	662.4	609.1	565.3	565.3
57.5°	4239.8	2421.9	1037.1	683.6	661.7	646.4	666.1	656.6	589.4	533.2	530.2
60°	4421.7	2476.0	952.4	633.2	617.9	609.9	639.8	636.9	561.7	498.8	496.7
62.5°	4566.3	2497.1	858.9	585.0	581.4	566.8	603.3	603.3	526.6	465.2	463.1
65°	4679.5	2476.7	764.0	537.6	544.9	522.9	558.7	554.4	489.3	435.3	432.4
67.5°	4779.6	2409.5	658.8	490.8	507.6	479.9	512.0	501.8	448.4	405.4	402.4
70°	4824.1	2253.2	539.0	444.1	464.5	437.5	465.2	446.3	402.4	373.2	367.4
72.5°	4466.2	1872.7	424.3	395.1	412.7	390.7	414.9	392.9	352.8	339.6	328.7
75°	3695.0	1405.2	326.5	341.8	355.0	338.2	354.2	338.2	301.6	311.1	284.1
77.5°	2683.4	948.8	249.8	285.6	291.4	282.7	296.5	278.3	245.4	243.2	232.3
80°	1334.4	555.8	195.7	225.7	223.5	217.7	233.7	225.0	197.2	208.9	206.7
82.5°	386.4	238.1	142.4	158.5	154.1	155.6	167.3	171.6	257.1	254.9	260.7
85°	121.2	93.5	85.5	88.4	84.0	86.2	98.6	195.7	181.1	105.9	114.7
87.5°	31.4	32.1	21.2	22.6	23.4	27.8	31.4	119.1	57.0	37.2	39.4
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)