

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: P947011

Luminaire Tested: **GALN-SB2C-727-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947011
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-SB2C-727-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14261 lumens
Efficiency: N/A
Efficacy: 141.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

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

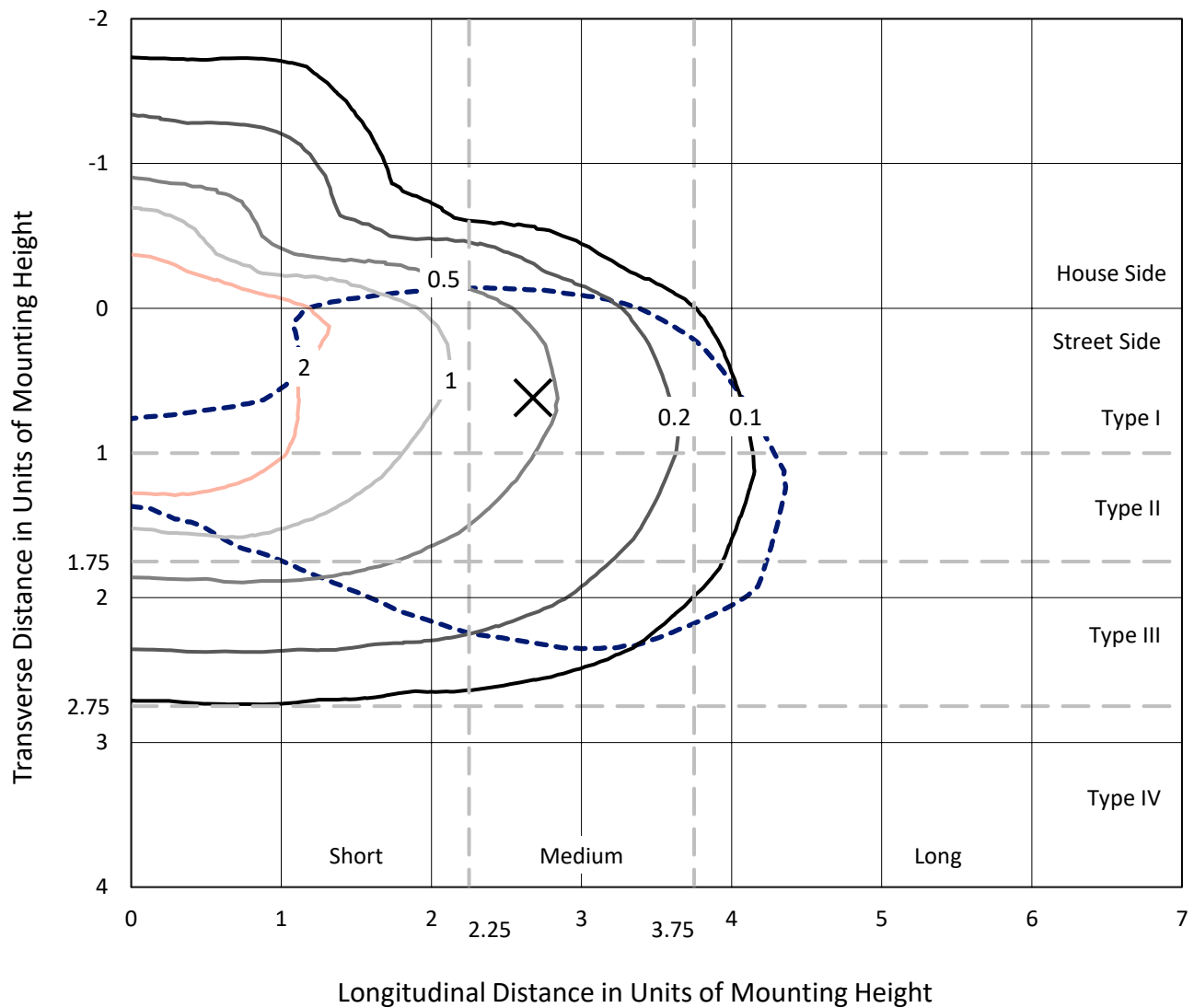


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Iso-Footcandle Lines of Horizontal Illumination

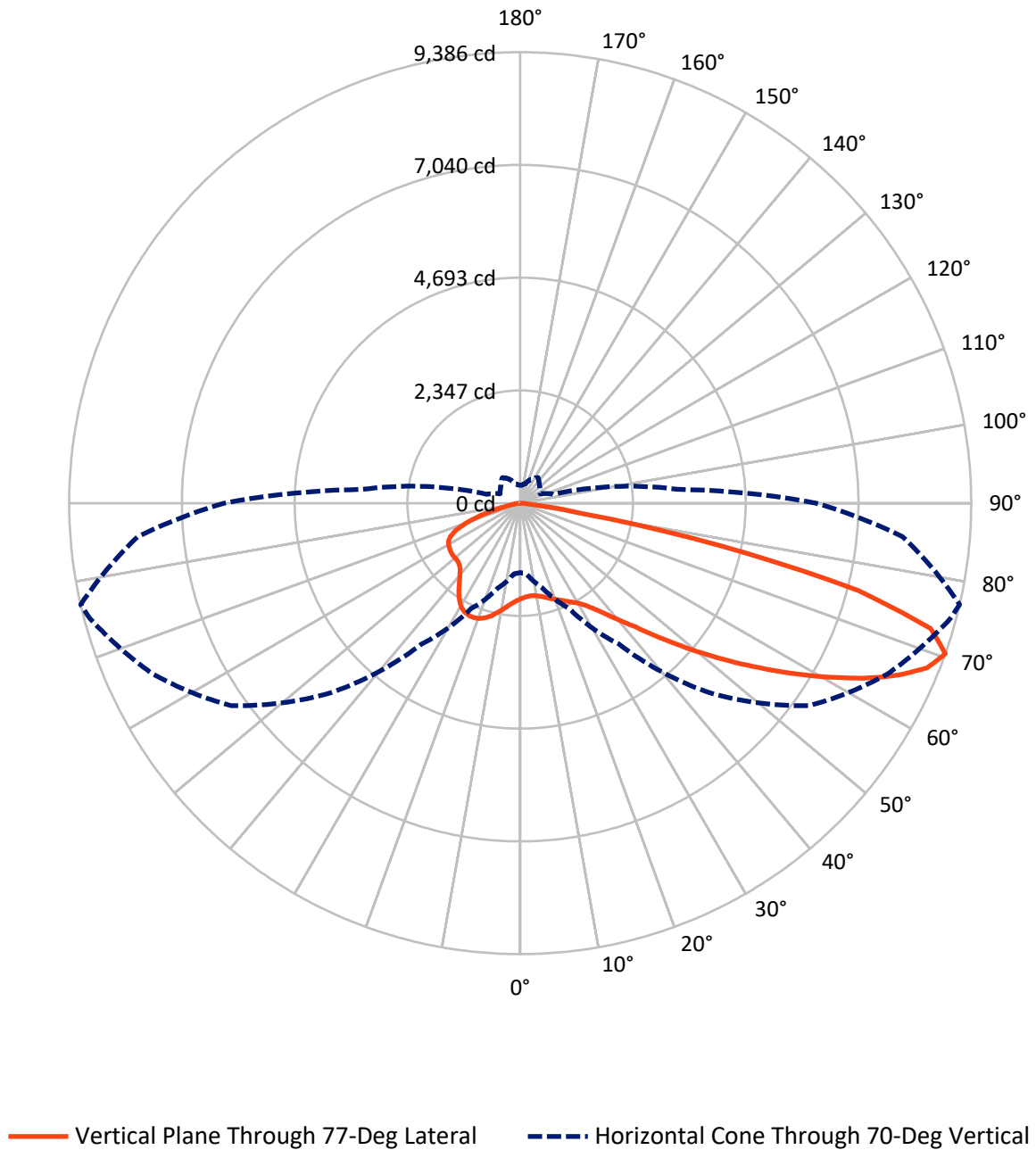
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	3122.9	0.0	3122.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	11138.1	0.0	11138.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	14261.0	0.0	14261.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.7	1.3
10°-20°	547.6	3.8
20°-30°	936.5	6.6
30°-40°	1506.0	10.6
40°-50°	2351.3	16.5
50°-60°	3140.8	22.0
60°-70°	3347.6	23.5
70°-80°	2060.8	14.5
80°-90°	180.6	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°	14261.0	100.0
0°-180°	14261.0	100.0

Coefficient of Utilization



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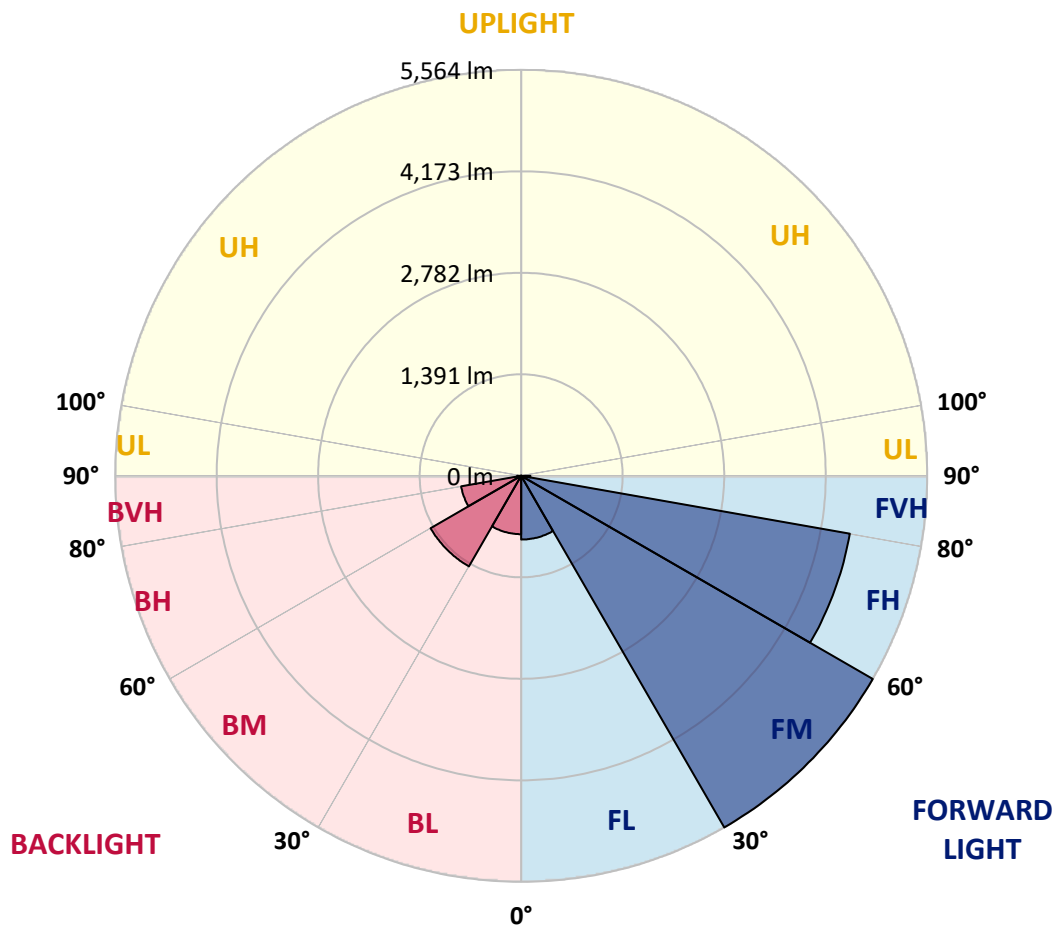
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	873.7	6.1			
FM	(30°-60°)	5564.3	39.0			
FH	(60°-80°)	4573.7	32.1			G2/5000
FVH	(80°-90°)	126.3	0.9			G2/225
BL	(0°-30°)	800.2	5.6	B2/1000		
BM	(30°-60°)	1433.8	10.1	B2/2500		
BH	(60°-80°)	834.6	5.9	B2/1000		G2/1000
BVH	(80°-90°)	54.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1989.5	1989.5	1989.5	1989.5	1989.5	1989.5	1989.5	1989.5	1989.5	1989.5	1989.5
2.5°	1834.0	1833.2	1842.7	1845.7	1863.2	1875.6	1899.0	1923.8	1955.9	1959.6	1979.3
5°	1728.1	1728.1	1739.0	1750.7	1773.3	1798.2	1834.0	1877.1	1932.6	1941.3	1990.3
7.5°	1638.2	1644.1	1653.6	1676.2	1702.5	1738.3	1793.1	1854.4	1927.5	1941.3	2020.2
10°	1565.9	1572.5	1584.2	1602.4	1641.9	1691.5	1763.1	1842.0	1939.9	1961.8	2064.0
12.5°	1543.3	1549.9	1556.4	1570.3	1606.8	1665.3	1750.7	1847.8	1969.8	1991.7	2123.9
15°	1595.9	1603.9	1598.8	1595.1	1614.1	1667.4	1756.6	1869.0	2007.1	2038.5	2197.7
17.5°	1717.1	1720.0	1708.3	1674.0	1671.1	1699.6	1784.3	1898.2	2053.8	2088.1	2272.2
20°	1912.9	1907.7	1883.6	1815.7	1777.0	1771.2	1831.8	1942.1	2102.0	2138.5	2352.5
22.5°	2178.7	2172.9	2124.7	2017.3	1931.1	1874.1	1900.4	1999.0	2156.1	2197.0	2430.7
25°	2510.3	2502.3	2431.4	2285.3	2151.7	2010.7	1993.9	2074.3	2222.5	2260.5	2512.5
27.5°	2897.4	2890.8	2814.1	2621.3	2428.5	2197.7	2110.1	2162.6	2291.9	2335.0	2604.5
30°	3313.7	3332.7	3196.8	2989.4	2745.5	2441.6	2266.4	2271.5	2381.8	2420.5	2716.3
32.5°	3803.1	3835.9	3672.3	3409.4	3076.3	2706.8	2463.6	2423.4	2512.5	2544.6	2857.2
35°	4288.0	4325.3	4189.4	3898.7	3515.3	3019.4	2669.5	2597.9	2686.3	2721.4	3044.2
37.5°	4707.3	4756.9	4686.8	4434.1	3984.9	3396.2	2938.3	2803.2	2900.3	2944.1	3295.4
40°	5038.1	5114.1	5109.0	4951.2	4538.5	3853.5	3279.4	3056.6	3166.2	3213.6	3600.0
42.5°	5306.9	5372.6	5429.6	5421.6	5116.3	4372.8	3680.4	3386.0	3469.3	3524.1	3942.6
45°	5492.4	5562.5	5685.2	5817.4	5672.1	4928.6	4139.8	3776.8	3852.7	3935.3	4350.8
47.5°	5658.2	5737.8	5897.0	6106.7	6143.9	5486.6	4643.0	4231.8	4301.2	4386.6	4760.6
50°	5672.8	5741.5	5988.3	6285.6	6479.2	6022.7	5183.5	4742.3	4807.3	4898.6	5199.5
52.5°	5320.0	5428.1	5859.1	6280.5	6633.3	6471.1	5720.3	5273.3	5346.3	5455.9	5653.8
55°	4129.5	4288.0	5480.0	6084.7	6578.5	6761.1	6230.8	5837.9	5931.4	6046.0	6111.0
57.5°	3556.9	3626.3	4350.1	5728.3	6328.7	6836.3	6661.7	6408.3	6558.8	6684.4	6594.5
60°	3196.8	3254.5	3682.5	5174.0	6000.0	6717.3	6994.8	6940.0	7200.0	7349.8	7089.0
62.5°	2811.2	2866.0	3255.3	4320.2	5579.3	6519.3	7205.1	7430.8	7857.4	8021.0	7555.0
65°	2428.5	2475.2	2848.5	3630.0	5044.7	6321.4	7314.0	7855.2	8465.8	8635.2	7942.1
67.5°	2002.0	2040.7	2393.4	3062.5	4394.7	6050.4	7368.0	8189.0	8995.3	9140.6	8133.4
70°	1444.7	1474.6	1839.1	2421.9	3578.8	5584.4	7346.1	8425.6	9269.9	9386.0	7988.8
72.5°	682.9	709.9	1137.9	1572.5	2527.8	4677.3	6902.8	8237.9	8990.9	8933.2	7103.6
75°	364.5	387.8	653.7	862.6	1335.1	3206.3	5648.7	7096.3	7549.9	7269.4	5249.9
77.5°	246.9	265.1	404.6	517.8	609.9	1522.1	3630.7	4913.2	4727.0	4263.9	2629.3
80°	195.7	214.7	331.6	350.6	295.1	550.0	1500.2	2274.4	1633.8	1306.6	747.9
82.5°	150.5	171.6	279.0	254.2	160.7	225.7	436.8	719.4	418.5	318.4	181.1
85°	92.0	114.7	219.1	162.1	90.6	103.0	148.3	200.1	127.8	106.6	65.0
87.5°	46.7	65.7	111.0	59.2	40.9	24.1	39.4	39.4	33.6	29.2	16.8
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°	1989.5	1989.5	1989.5	1989.5	1989.5	1989.5	1989.5	1989.5	1989.5	1989.5	1989.5
2.5°	1996.8	2011.5	2036.3	2059.7	2077.9	2095.4	2113.0	2122.5	2125.4	2137.1	2143.6
5°	2020.2	2047.2	2095.4	2140.7	2169.2	2186.7	2199.2	2206.5	2207.9	2211.6	2217.4
7.5°	2063.3	2106.4	2173.6	2218.9	2240.1	2238.6	2233.5	2215.2	2207.9	2201.3	2202.8
10°	2123.9	2180.9	2263.4	2294.8	2281.7	2246.6	2201.3	2148.0	2123.2	2099.1	2091.8
12.5°	2199.2	2271.5	2352.5	2351.1	2286.1	2196.2	2091.1	2009.3	1957.4	1920.2	1911.4
15°	2290.5	2373.7	2435.8	2386.1	2243.7	2082.3	1928.2	1821.6	1774.8	1733.9	1729.5
17.5°	2384.7	2473.8	2502.3	2375.2	2137.1	1913.6	1739.0	1655.0	1609.0	1587.1	1593.7
20°	2476.7	2565.1	2541.7	2312.4	1974.9	1722.2	1566.7	1520.6	1511.1	1516.3	1514.1
22.5°	2573.8	2652.7	2549.7	2191.1	1768.2	1526.5	1441.0	1442.5	1463.7	1479.0	1482.7
25°	2673.2	2726.5	2528.6	2015.8	1546.2	1382.6	1361.4	1384.8	1426.4	1456.4	1464.4
27.5°	2768.8	2792.2	2482.5	1798.9	1355.6	1279.6	1283.3	1331.5	1394.3	1435.9	1446.1
30°	2876.9	2850.7	2394.2	1555.0	1223.4	1191.2	1221.9	1278.2	1341.0	1378.2	1387.0
32.5°	2998.9	2901.0	2253.9	1329.3	1129.9	1120.4	1170.8	1207.3	1235.1	1246.0	1251.9
35°	3150.8	2971.9	2074.3	1170.8	1045.9	1068.5	1116.7	1098.5	1087.5	1081.7	1087.5
37.5°	3348.0	3067.6	1863.9	1067.8	978.0	1031.3	1051.0	994.0	950.9	929.8	934.9
40°	3585.4	3207.8	1661.6	988.2	934.9	999.2	964.8	896.2	841.4	811.4	813.6
42.5°	3849.1	3354.6	1491.4	928.3	910.8	972.9	901.3	819.5	731.1	721.6	731.1
45°	4125.9	3505.8	1375.3	882.3	899.1	950.2	864.8	732.6	669.8	708.5	728.9
47.5°	4402.7	3644.6	1305.2	848.0	893.2	924.7	832.6	684.4	639.8	696.0	722.3
50°	4710.9	3768.7	1273.8	823.1	886.7	914.4	784.4	671.9	608.4	645.7	673.4
52.5°	5016.9	3865.1	1250.4	798.3	877.2	906.4	761.1	657.3	570.4	572.6	588.0
55°	5322.2	3928.0	1224.8	765.4	856.0	888.9	758.9	641.3	541.9	531.7	539.0
57.5°	5648.0	3963.7	1193.4	728.9	819.5	844.3	756.7	628.9	533.2	516.4	518.6
60°	5979.6	4016.3	1152.5	684.4	770.5	791.0	751.6	624.5	528.1	499.6	501.8
62.5°	6276.8	4034.6	1103.6	642.0	707.7	738.4	740.6	620.8	514.2	465.2	465.2
65°	6471.8	3955.7	1018.1	593.8	639.8	684.4	719.4	608.4	489.4	440.4	440.4
67.5°	6463.8	3730.8	884.5	531.7	574.1	624.5	688.7	587.2	459.4	409.7	411.9
70°	6162.9	3286.7	715.0	459.4	501.8	560.2	649.3	555.8	423.6	376.1	380.5
72.5°	5285.7	2572.4	519.3	374.7	417.8	493.7	598.2	517.8	387.1	346.2	344.0
75°	3776.0	1628.0	352.0	287.8	325.0	418.5	534.6	473.3	353.5	347.7	327.9
77.5°	1928.9	777.8	233.0	210.3	226.4	330.1	449.2	422.9	358.6	287.0	255.6
80°	627.4	287.0	146.8	143.2	150.5	219.8	347.7	346.9	271.7	195.0	172.4
82.5°	200.1	123.4	95.7	92.0	88.4	138.0	242.5	274.6	183.3	123.4	122.7
85°	79.6	73.8	56.2	51.9	37.2	65.0	127.1	182.6	136.6	89.1	91.3
87.5°	29.2	29.2	15.3	11.0	8.0	21.9	34.3	54.8	78.2	46.0	45.3
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)