

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: P940259

Luminaire Tested: **GALN-SB3B-727-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940259
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3B-727-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15489 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 109.2
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

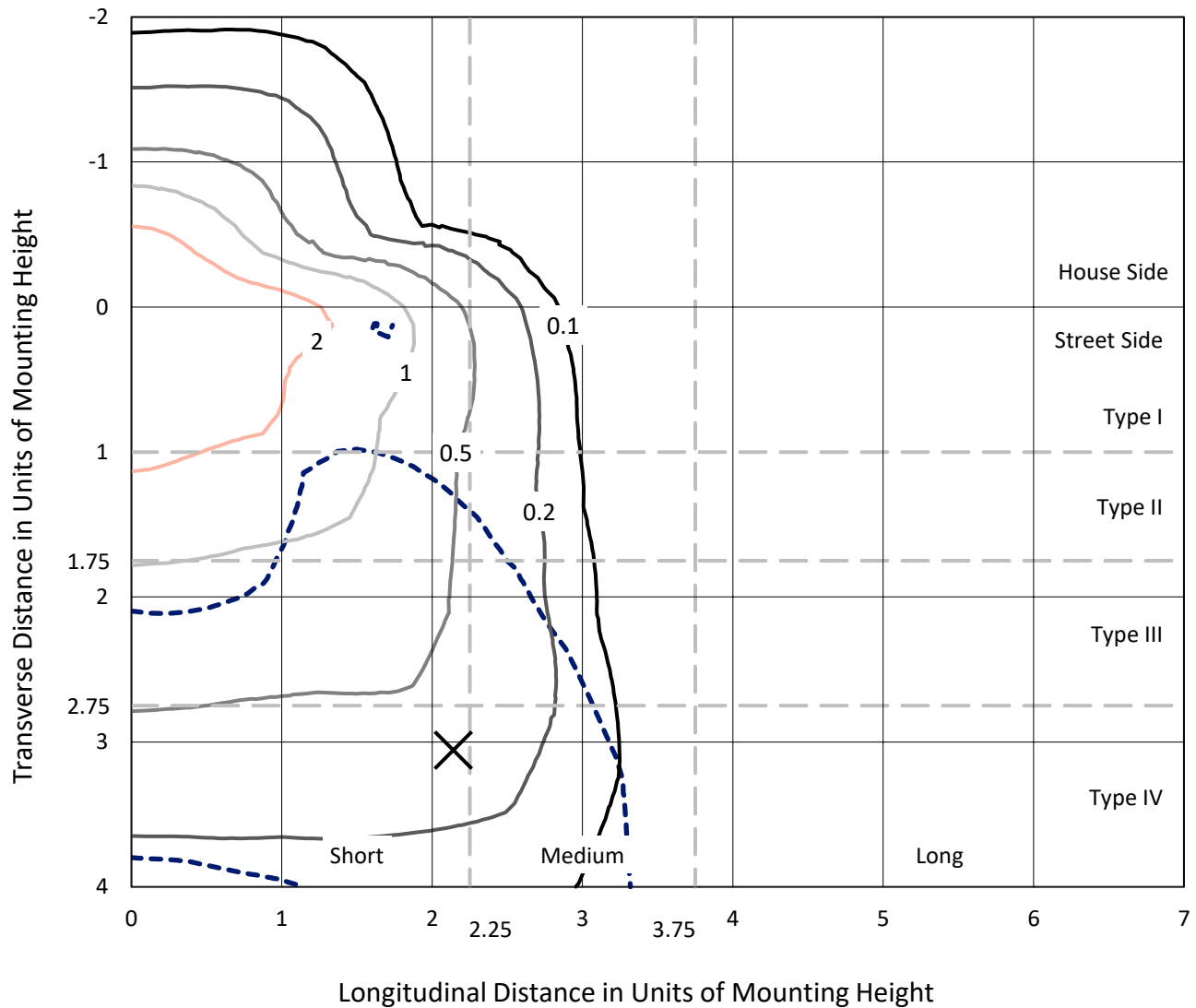


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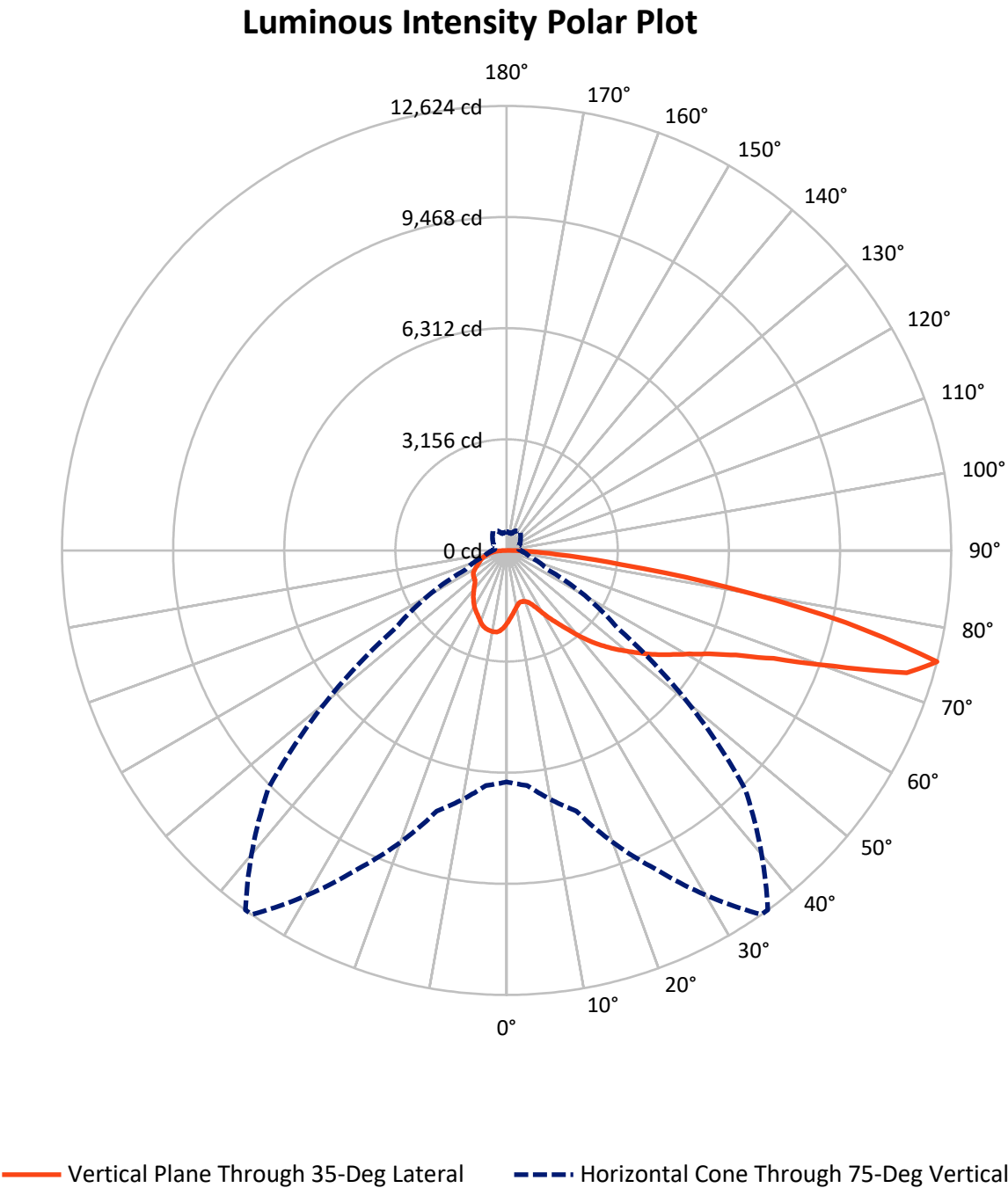
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
Type IV - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3686.0	0.0	3686.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	11803.0	0.0	11803.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	15489.0	0.0	15489.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.4	1.3
10°-20°	563.7	3.6
20°-30°	946.6	6.1
30°-40°	1471.1	9.5
40°-50°	2183.5	14.1
50°-60°	3014.4	19.5
60°-70°	3657.2	23.6
70°-80°	3022.4	19.5
80°-90°	434.7	2.8
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°	15489.0	100.0
0°-180°	15489.0	100.0

Coefficient of Utilization



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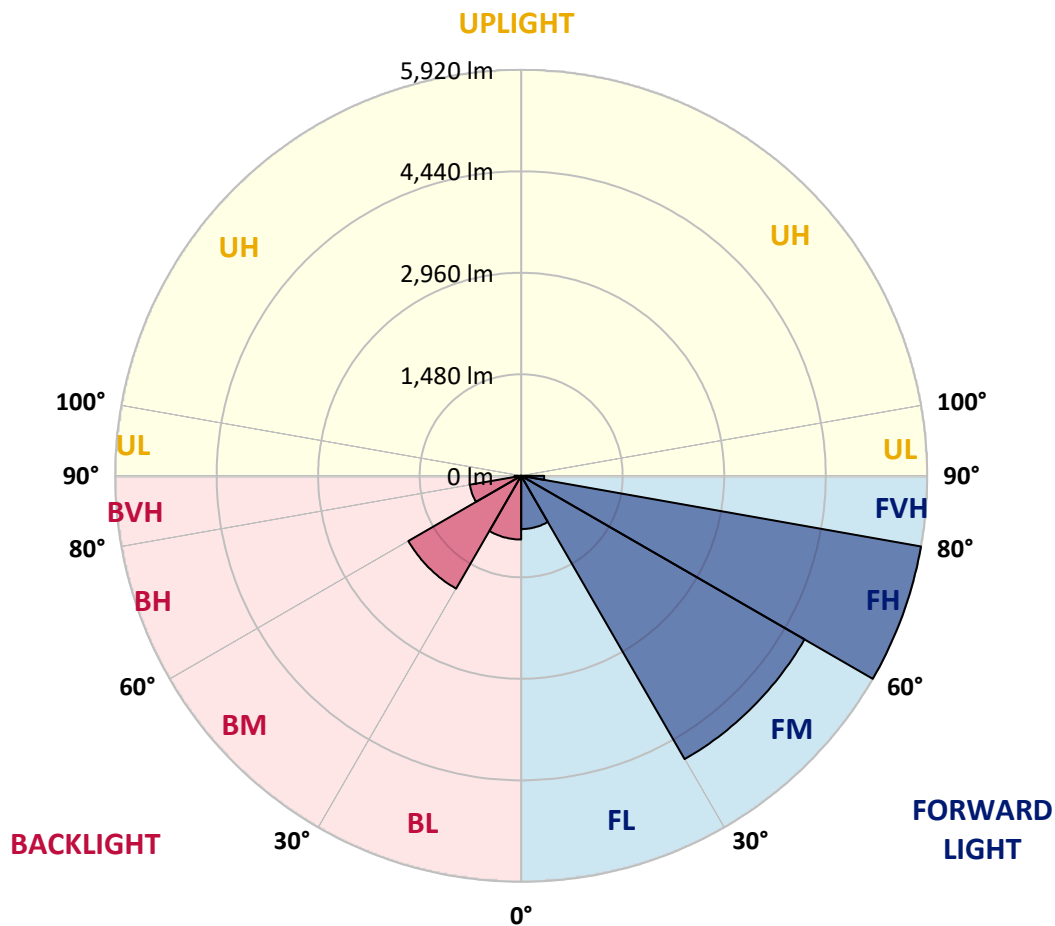
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	776.7	5.0			
FM	(30°-60°)	4769.8	30.8			
FH	(60°-80°)	5919.7	38.2			G3/7500
FVH	(80°-90°)	336.8	2.2			G3/500
BL	(0°-30°)	928.9	6.0	B2/1000		
BM	(30°-60°)	1899.2	12.3	B2/2500		
BH	(60°-80°)	759.9	4.9	B2/1000		G2/1000
BVH	(80°-90°)	97.9	0.6			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2064.0	2064.0	2064.0	2064.0	2064.0	2064.0	2064.0	2064.0	2064.0	2064.0	2064.0
2.5°	1903.2	1915.0	1920.0	1917.5	1930.0	1928.4	1946.0	1967.7	1997.9	2027.2	2069.9
5°	1756.7	1769.3	1780.2	1790.2	1814.5	1822.0	1849.7	1891.5	1946.8	2002.9	2073.2
7.5°	1620.2	1631.1	1647.9	1666.3	1707.3	1714.8	1760.9	1826.2	1903.2	1985.3	2082.4
10°	1508.9	1519.8	1537.3	1558.3	1609.3	1618.6	1677.2	1764.3	1864.7	1968.6	2092.5
12.5°	1461.1	1464.5	1474.5	1495.5	1539.8	1545.7	1610.2	1709.8	1827.1	1956.0	2107.6
15°	1458.6	1465.3	1466.2	1477.0	1513.9	1516.4	1575.9	1674.7	1803.6	1953.5	2130.2
17.5°	1483.7	1488.8	1481.2	1487.9	1518.9	1523.1	1570.0	1657.9	1796.1	1964.4	2168.7
20°	1550.7	1554.9	1532.3	1523.1	1545.7	1549.1	1595.1	1668.8	1803.6	1987.0	2221.4
22.5°	1693.1	1695.6	1640.3	1602.6	1604.3	1606.0	1646.2	1713.2	1832.9	2028.0	2288.4
25°	1915.0	1913.3	1825.4	1752.5	1710.7	1701.5	1728.2	1785.2	1882.3	2082.4	2374.7
27.5°	2174.5	2162.0	2074.1	1965.2	1873.9	1860.5	1854.7	1879.0	1952.6	2154.4	2480.2
30°	2467.6	2455.9	2361.3	2218.9	2092.5	2070.7	2015.4	2002.9	2057.3	2252.4	2626.7
32.5°	2789.1	2781.6	2668.6	2496.1	2326.9	2301.8	2208.9	2175.4	2218.1	2400.6	2831.0
35°	3058.8	3052.1	2958.3	2780.8	2573.9	2543.0	2448.3	2410.7	2432.4	2590.7	3098.1
37.5°	3302.4	3299.1	3218.7	3078.9	2865.3	2827.7	2721.3	2708.8	2704.6	2841.1	3422.2
40°	3528.5	3520.1	3436.4	3362.7	3204.5	3170.1	3076.3	3065.5	3033.6	3149.2	3788.9
42.5°	3778.9	3757.1	3635.7	3601.3	3558.6	3530.2	3474.1	3475.7	3405.4	3496.7	4177.4
45°	3983.2	3970.6	3845.8	3825.8	3871.8	3860.1	3908.6	3921.2	3784.7	3860.9	4581.0
47.5°	4202.6	4190.8	4085.3	4071.1	4195.9	4199.2	4370.9	4375.0	4154.8	4239.4	4985.5
50°	4473.0	4456.3	4351.6	4369.2	4509.0	4521.6	4835.6	4807.1	4495.6	4623.7	5386.5
52.5°	4651.4	4661.4	4638.8	4667.3	4858.2	4869.9	5292.8	5219.9	4833.1	5003.0	5780.1
55°	4782.8	4802.9	4873.3	4938.6	5226.6	5238.3	5724.0	5612.6	5112.7	5354.7	6150.2
57.5°	4952.0	4923.5	5055.0	5182.2	5576.6	5607.6	6143.5	5991.1	5360.6	5657.8	6403.9
60°	5194.8	5174.7	5276.8	5465.2	5968.5	6017.9	6587.3	6331.9	5542.3	5898.1	6453.3
62.5°	5687.1	5636.9	5652.8	5819.4	6462.5	6527.8	7088.0	6629.1	5632.7	5991.9	6188.7
65°	6423.1	6336.9	6256.5	6372.1	7158.3	7222.8	7653.2	6862.7	5599.2	5810.2	5486.2
67.5°	7350.1	7264.7	7165.9	7274.7	8183.2	8234.3	8350.7	6994.2	5335.5	5110.2	4244.4
70°	8114.5	8082.7	8200.8	8648.8	9820.2	9821.9	9244.9	6885.3	4612.8	3623.1	2455.9
72.5°	8013.2	7994.0	8616.1	10001.0	11883.4	11839.0	10091.5	6061.4	3107.3	1634.5	920.2
75°	6573.9	6698.6	7662.4	9976.8	12624.4	12618.5	9573.2	3853.4	1285.3	677.4	475.6
77.5°	3525.2	3722.8	4974.6	7366.0	9855.4	10003.6	6730.4	1348.1	551.8	433.7	329.1
80°	1149.7	1322.1	1982.8	3750.4	6403.9	6376.3	2884.6	529.2	377.6	307.3	227.8
82.5°	488.2	508.3	885.9	1770.9	3286.5	3235.4	918.5	304.0	265.4	210.2	140.7
85°	190.9	213.5	391.0	818.9	1423.5	1392.5	331.6	150.7	170.0	137.3	83.7
87.5°	62.8	76.2	139.8	280.5	442.9	427.0	81.2	51.9	73.7	62.8	30.1
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°	2064.0	2064.0	2064.0	2064.0	2064.0	2064.0	2064.0	2064.0	2064.0	2064.0	2064.0
2.5°	2081.6	2095.0	2110.9	2134.3	2154.4	2171.2	2188.8	2199.7	2203.8	2216.4	2215.6
5°	2096.7	2126.0	2165.3	2203.8	2241.5	2264.1	2284.2	2294.3	2303.5	2310.2	2311.9
7.5°	2121.8	2159.5	2221.4	2271.7	2303.5	2321.9	2335.3	2332.0	2335.3	2337.0	2339.5
10°	2143.6	2196.3	2270.0	2317.7	2342.0	2342.8	2339.5	2327.8	2321.9	2322.7	2324.4
12.5°	2169.5	2228.1	2307.7	2347.9	2354.6	2336.1	2321.9	2301.8	2294.3	2290.9	2289.3
15°	2204.7	2271.7	2348.7	2363.8	2347.0	2323.6	2299.3	2266.6	2249.9	2236.5	2240.7
17.5°	2247.4	2321.1	2380.5	2369.6	2333.6	2295.1	2255.8	2206.4	2172.0	2157.8	2158.6
20°	2306.8	2373.0	2404.8	2357.1	2302.7	2244.0	2177.1	2116.8	2084.9	2070.7	2069.0
22.5°	2378.8	2442.5	2428.3	2335.3	2258.3	2164.5	2080.8	2036.4	2020.5	2010.4	2012.1
25°	2465.1	2519.5	2445.0	2303.5	2185.4	2059.0	1994.5	1980.3	1972.7	1965.2	1965.2
27.5°	2577.3	2606.6	2457.6	2256.6	2071.5	1946.8	1923.3	1925.9	1923.3	1910.8	1913.3
30°	2725.5	2719.6	2469.3	2180.4	1940.9	1845.5	1847.1	1858.0	1859.7	1851.3	1855.5
32.5°	2920.6	2861.2	2475.1	2081.6	1816.2	1756.7	1758.4	1770.1	1778.5	1764.3	1770.9
35°	3156.7	3026.1	2465.9	1957.7	1719.9	1672.1	1659.6	1662.9	1665.4	1652.0	1661.3
37.5°	3432.2	3211.2	2424.9	1820.4	1640.3	1589.2	1562.5	1539.8	1526.4	1513.9	1522.3
40°	3734.5	3412.9	2349.5	1686.4	1551.6	1501.3	1461.1	1418.4	1373.2	1356.5	1364.0
42.5°	4051.0	3620.6	2258.3	1558.3	1449.4	1408.4	1365.7	1303.7	1235.9	1201.6	1205.8
45°	4379.2	3833.3	2168.7	1431.8	1344.7	1327.2	1277.8	1203.2	1129.6	1086.0	1082.7
47.5°	4700.8	4034.2	2037.2	1304.6	1246.8	1266.0	1227.5	1158.9	1076.8	1008.1	1000.6
50°	5008.1	4222.6	1822.0	1175.6	1167.2	1247.6	1210.8	1112.0	1018.2	930.3	922.7
52.5°	5312.8	4375.0	1546.5	1058.4	1124.5	1242.6	1189.0	1080.2	965.4	873.3	863.3
55°	5571.6	4453.7	1281.1	957.9	1062.6	1199.9	1163.0	1042.5	890.9	792.9	784.6
57.5°	5719.0	4390.1	1060.1	859.1	977.2	1129.6	1118.7	962.1	802.2	726.8	716.8
60°	5655.3	4132.2	879.2	772.9	895.9	1053.4	1041.6	882.5	734.3	663.2	653.1
62.5°	5304.5	3640.7	736.0	697.5	822.3	975.5	964.6	821.4	682.4	613.8	602.9
65°	4597.8	2961.6	624.6	634.7	747.7	881.7	897.6	770.3	641.4	574.4	563.5
67.5°	3506.7	2145.2	537.6	580.3	674.9	789.6	835.7	733.5	607.1	543.4	533.4
70°	1998.7	1218.3	463.9	527.5	610.4	704.2	787.9	704.2	570.2	517.5	510.8
72.5°	757.8	559.3	401.1	474.8	548.4	632.2	735.2	658.1	527.5	488.2	481.5
75°	404.4	340.8	337.4	412.8	477.3	561.8	669.0	612.9	495.7	515.8	532.5
77.5°	275.5	241.2	282.2	353.4	399.4	484.0	598.7	544.3	429.5	427.9	394.4
80°	190.9	170.8	229.4	284.7	309.0	406.9	522.5	467.2	350.0	326.6	312.3
82.5°	114.7	111.4	171.7	212.7	218.5	314.0	432.9	391.9	286.4	249.5	251.2
85°	62.8	66.1	109.7	124.8	127.3	219.4	339.1	303.1	220.2	185.0	186.7
87.5°	17.6	22.6	40.2	49.4	61.1	113.9	201.8	180.0	110.5	77.0	77.0
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)