

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: P948105

Luminaire Tested: **GALN-SB3B-730-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948105
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3B-730-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16862 lumens
Efficiency: N/A
Efficacy: 154.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - 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



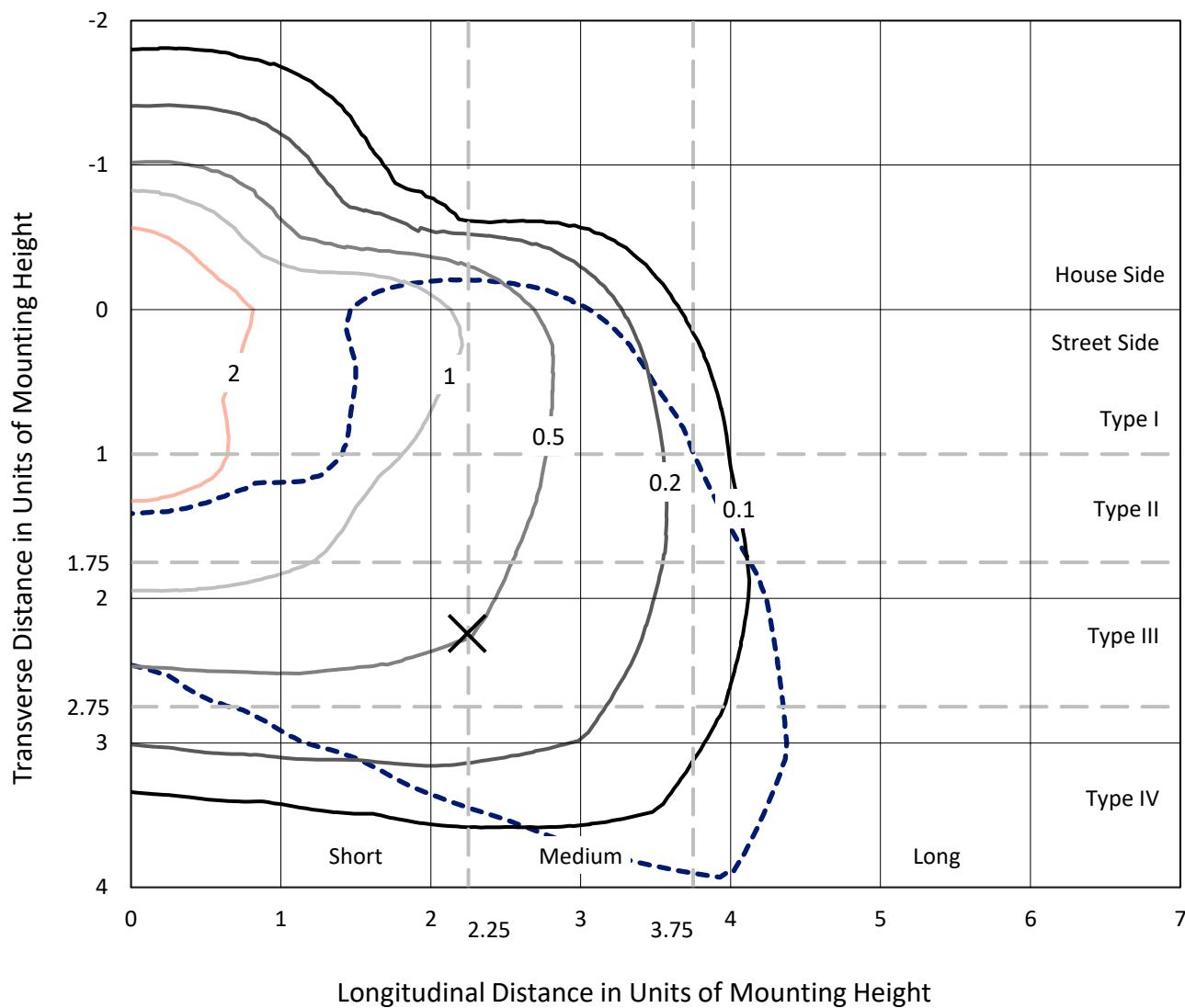
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

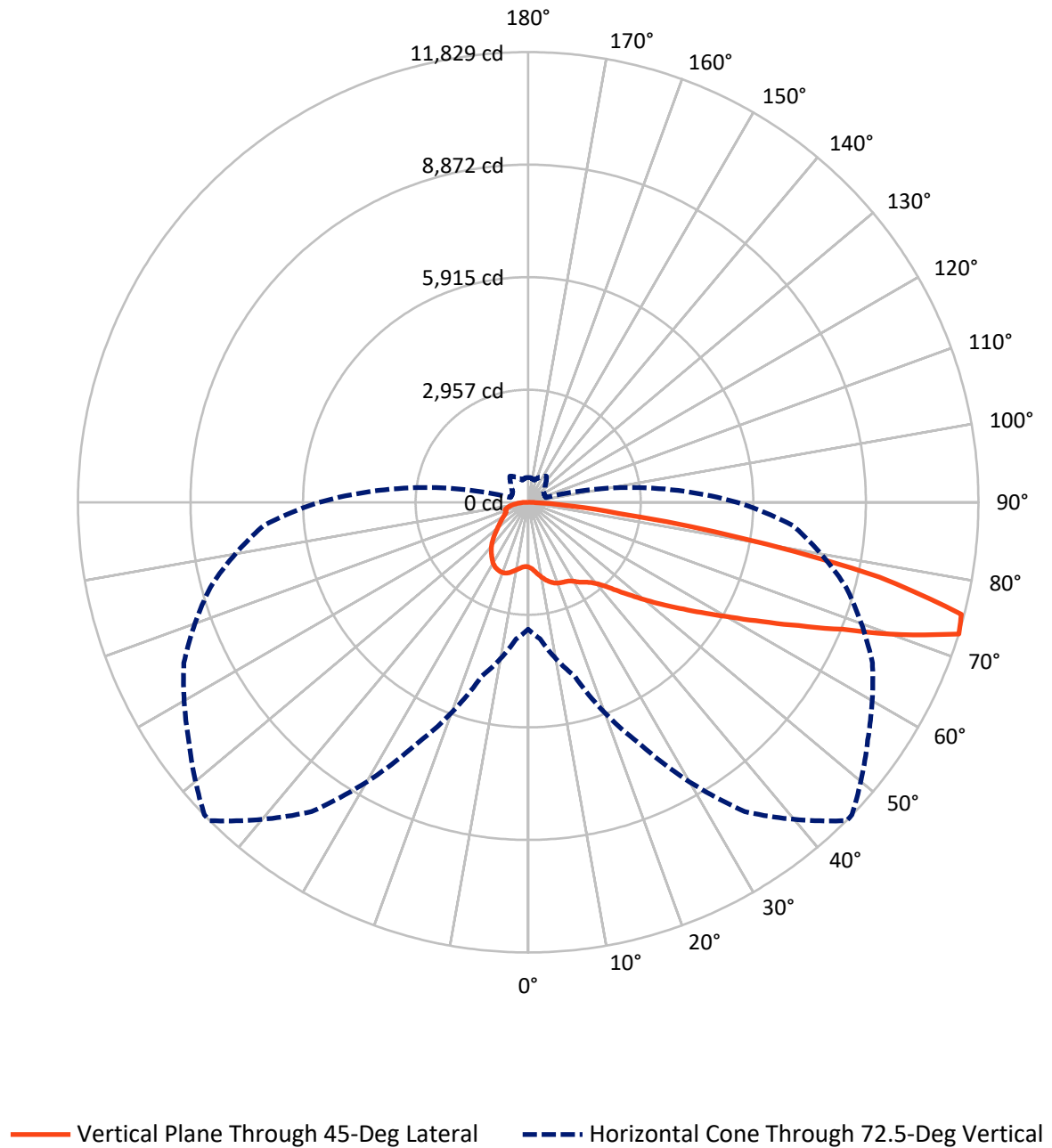


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3811.9	0.0	3811.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	13050.1	0.0	13050.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	16862.0	0.0	16862.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.1	1.0
10°-20°	577.2	3.4
20°-30°	1004.2	6.0
30°-40°	1439.5	8.5
40°-50°	2026.9	12.0
50°-60°	3104.6	18.4
60°-70°	4497.5	26.7
70°-80°	3591.5	21.3
80°-90°	447.3	2.7
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°	16862.0	100.0
0°-180°	16862.0	100.0

Coefficient of Utilization



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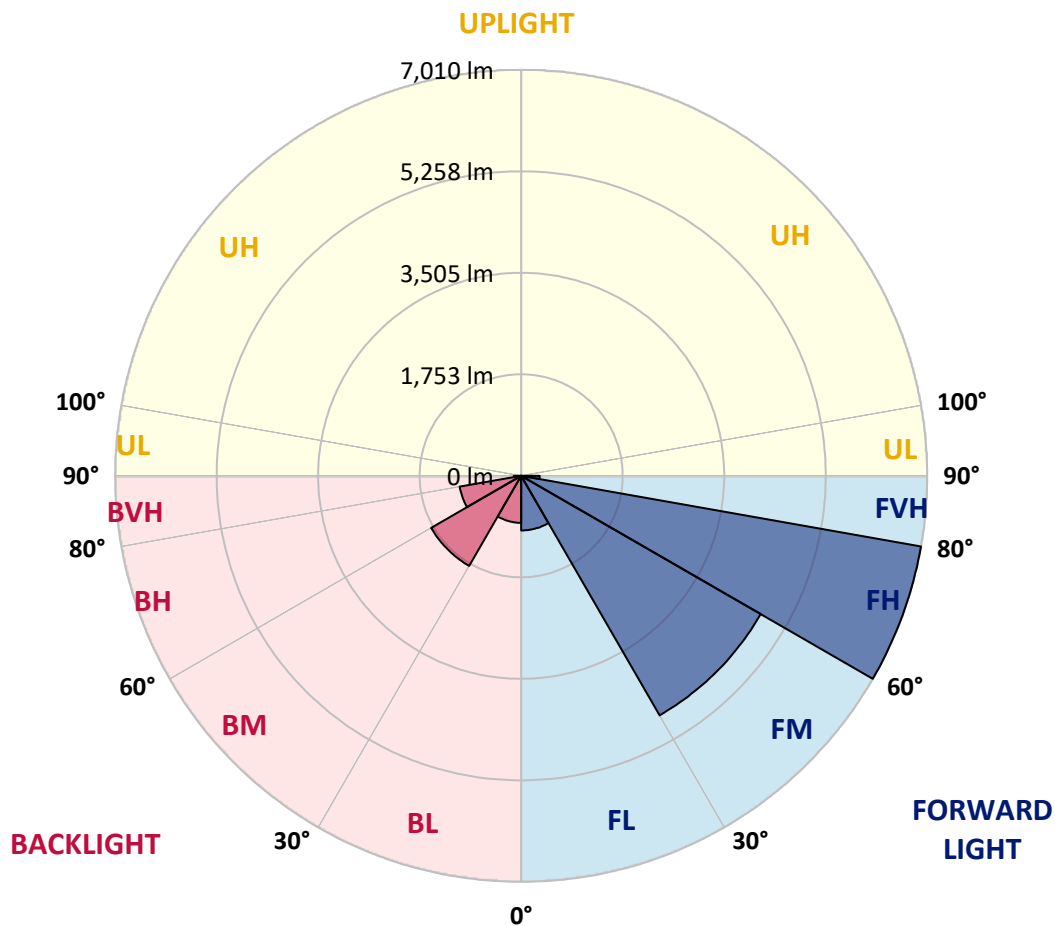
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	942.9	5.6			
FM	(30°-60°)	4776.2	28.3			
FH	(60°-80°)	7010.0	41.6			G3/7500
FVH	(80°-90°)	320.9	1.9			G3/500
BL	(0°-30°)	811.6	4.8	B2/1000		
BM	(30°-60°)	1794.9	10.6	B2/2500		
BH	(60°-80°)	1079.1	6.4	B3/2500		G3/2500
BVH	(80°-90°)	126.4	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1701.0	1701.0	1701.0	1701.0	1701.0	1701.0	1701.0	1701.0	1701.0	1701.0	1701.0
2.5°	1767.7	1779.2	1768.6	1758.8	1754.3	1742.8	1741.9	1734.8	1730.4	1717.9	1714.4
5°	1891.1	1906.2	1888.5	1868.9	1851.2	1822.7	1819.2	1798.8	1775.7	1749.0	1733.9
7.5°	2030.6	2043.9	2023.5	1994.2	1963.1	1916.0	1915.1	1877.8	1841.4	1796.1	1770.3
10°	2152.3	2170.1	2142.5	2102.5	2063.5	2010.2	2003.9	1961.3	1915.1	1856.5	1817.4
12.5°	2259.8	2272.2	2245.6	2196.7	2151.4	2098.1	2090.1	2043.0	1991.5	1924.9	1875.1
15°	2345.0	2361.0	2325.5	2273.1	2225.1	2172.7	2165.6	2123.0	2071.5	2001.3	1937.3
17.5°	2401.0	2414.3	2377.9	2319.3	2273.1	2229.6	2224.2	2188.7	2143.4	2072.3	2003.9
20°	2422.3	2436.5	2398.3	2338.8	2296.2	2262.4	2259.8	2234.0	2202.9	2138.1	2068.8
22.5°	2443.6	2457.0	2407.2	2345.0	2307.7	2286.4	2285.5	2268.7	2256.2	2202.9	2135.4
25°	2529.8	2533.4	2466.7	2377.0	2323.7	2305.1	2304.2	2303.3	2308.6	2266.9	2207.4
27.5°	2604.4	2603.5	2546.7	2462.3	2379.7	2340.6	2339.7	2348.6	2365.5	2330.8	2282.0
30°	2713.7	2703.9	2636.4	2548.5	2473.0	2412.6	2407.2	2399.2	2412.6	2385.0	2356.6
32.5°	2945.5	2914.4	2805.2	2648.8	2550.2	2504.0	2496.9	2447.2	2452.5	2435.7	2421.4
35°	3277.7	3236.9	3091.2	2838.9	2646.2	2580.4	2576.9	2513.8	2503.2	2488.1	2493.4
37.5°	3673.0	3622.4	3452.7	3114.3	2811.4	2669.3	2663.9	2607.1	2563.6	2547.6	2577.8
40°	4070.1	4006.1	3865.8	3450.1	3054.8	2817.6	2800.7	2714.6	2664.8	2638.2	2702.1
42.5°	4455.6	4402.3	4282.4	3826.7	3355.0	3034.3	2997.0	2849.6	2812.3	2787.4	2902.9
45°	4796.7	4748.7	4660.8	4229.1	3706.8	3329.3	3292.8	3052.1	3040.6	3040.6	3207.6
47.5°	5073.8	5063.2	4969.9	4639.5	4121.6	3665.0	3602.0	3333.7	3364.8	3412.8	3640.2
50°	5381.2	5351.9	5252.4	5043.6	4609.3	4049.6	3998.1	3679.2	3795.6	3927.1	4265.5
52.5°	5663.6	5679.6	5568.6	5464.7	5160.0	4478.7	4388.1	4087.0	4338.3	4556.0	4998.3
55°	5954.1	5955.0	5923.9	5909.7	5737.4	4953.0	4853.5	4577.3	4977.0	5247.0	5852.8
57.5°	6226.8	6228.6	6274.8	6400.0	6407.1	5500.2	5387.4	5179.5	5686.7	5962.1	6734.0
60°	6470.2	6482.6	6608.8	6901.9	6996.1	6127.3	6020.7	5891.0	6420.5	6697.6	7660.5
62.5°	6551.9	6597.2	6877.9	7294.5	7577.9	6896.6	6791.8	6714.5	7191.5	7449.1	8435.1
65°	6413.3	6517.3	7060.0	7618.7	8176.6	7810.6	7706.7	7622.3	7992.7	8235.2	9071.1
67.5°	6073.1	6207.3	7049.4	7958.9	8903.2	8910.3	8813.5	8615.4	8851.7	8944.9	9278.0
70°	5176.9	5377.6	6428.4	8086.0	9737.3	10414.1	10320.9	9811.0	9708.9	9257.6	8695.3
72.5°	3335.5	3605.5	4733.6	7040.5	9922.9	11829.2	11823.8	10890.3	9979.8	8650.0	6973.9
75°	1216.9	1382.2	2199.4	4419.2	8329.4	11757.2	11791.9	10705.5	9110.2	6681.6	4344.6
77.5°	443.2	485.0	717.7	1698.4	5122.7	9433.5	9505.4	8558.5	6484.4	3353.2	1721.5
80°	232.7	255.8	367.7	659.1	2194.9	5602.4	5715.2	5086.3	3047.7	1010.0	516.1
82.5°	128.8	139.5	206.1	358.0	988.7	2395.7	2463.2	2009.3	1072.1	428.1	213.2
85°	69.3	73.7	96.8	195.4	483.2	830.5	849.2	600.5	427.3	251.4	103.0
87.5°	20.4	24.9	32.0	62.2	189.2	186.5	191.0	119.0	168.8	127.0	33.8
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°	1701.0	1701.0	1701.0	1701.0	1701.0	1701.0	1701.0	1701.0	1701.0	1701.0	1701.0
2.5°	1709.0	1706.4	1696.6	1692.2	1686.8	1685.9	1690.4	1691.3	1692.2	1693.1	1696.6
5°	1725.0	1716.1	1707.3	1701.9	1703.7	1704.6	1713.5	1719.7	1724.1	1727.7	1729.5
7.5°	1756.1	1749.0	1733.9	1733.0	1735.7	1743.7	1755.2	1769.4	1777.4	1783.7	1785.4
10°	1802.3	1789.0	1771.2	1773.9	1779.2	1790.8	1814.7	1826.3	1839.6	1851.2	1848.5
12.5°	1849.4	1837.8	1817.4	1819.2	1828.1	1848.5	1871.6	1885.8	1894.7	1903.6	1907.1
15°	1910.7	1890.3	1868.0	1868.0	1884.0	1906.2	1916.9	1928.4	1933.8	1943.5	1947.1
17.5°	1973.7	1947.1	1917.8	1916.0	1935.6	1946.2	1952.4	1954.2	1956.0	1966.6	1970.2
20°	2036.8	2007.5	1965.8	1962.2	1966.6	1964.9	1964.0	1962.2	1964.9	1978.2	1983.5
22.5°	2099.0	2065.2	2007.5	1991.5	1979.1	1962.2	1961.3	1960.4	1962.2	1975.5	1984.4
25°	2171.8	2131.0	2053.7	2005.7	1964.0	1940.9	1943.5	1944.4	1946.2	1956.9	1971.1
27.5°	2250.9	2205.6	2096.3	2001.3	1925.8	1909.8	1905.4	1908.0	1914.2	1931.1	1948.0
30°	2329.9	2276.7	2135.4	1983.5	1877.8	1855.6	1841.4	1847.6	1867.2	1884.0	1902.7
32.5°	2401.9	2348.6	2166.5	1944.4	1816.5	1781.9	1763.2	1771.2	1790.8	1797.0	1819.2
35°	2486.3	2425.9	2179.8	1882.3	1749.9	1696.6	1671.7	1660.2	1670.0	1663.7	1683.3
37.5°	2580.4	2517.4	2178.1	1800.5	1671.7	1610.4	1575.8	1532.3	1511.8	1490.5	1503.9
40°	2719.9	2629.3	2156.7	1701.9	1574.9	1519.0	1456.8	1383.0	1336.9	1295.1	1297.8
42.5°	2910.0	2784.7	2117.6	1593.6	1465.7	1413.2	1328.9	1242.7	1169.9	1100.6	1094.4
45°	3193.4	2988.2	2068.8	1478.1	1347.5	1296.0	1204.5	1107.7	1025.1	936.2	925.6
47.5°	3602.0	3261.7	2022.6	1346.6	1223.2	1176.1	1093.5	1003.8	906.0	819.9	810.1
50°	4163.3	3654.4	1980.0	1218.7	1100.6	1065.0	999.3	907.8	809.2	739.9	735.5
52.5°	4877.5	4188.2	1962.2	1095.2	986.0	972.7	920.3	835.0	741.7	683.1	678.6
55°	5697.4	4826.9	1962.2	977.1	885.6	890.1	853.6	774.6	693.7	641.3	636.0
57.5°	6534.2	5473.6	1926.7	867.8	800.3	819.0	795.9	726.6	653.8	599.6	590.7
60°	7305.2	6015.4	1782.8	768.4	724.8	754.1	739.0	679.5	590.7	545.4	538.3
62.5°	7897.7	6321.0	1505.6	689.3	662.7	696.4	688.4	617.4	579.2	560.5	554.3
65°	8194.3	6271.2	1151.2	619.1	610.2	662.7	645.8	643.1	612.9	591.6	584.5
67.5°	8012.2	5843.1	835.0	567.6	580.0	631.6	696.4	707.1	651.1	609.4	602.3
70°	7213.7	5068.5	621.8	518.8	541.8	632.5	794.1	739.9	638.7	589.8	581.8
72.5°	5487.8	3779.6	482.3	467.2	492.1	636.9	837.6	724.8	603.1	652.0	646.7
75°	3138.3	2075.0	387.3	404.2	429.9	595.1	815.4	685.7	575.6	598.7	598.7
77.5°	1196.5	797.7	319.8	342.0	345.5	519.6	779.9	683.1	548.1	534.7	487.7
80°	414.8	311.8	264.7	271.8	267.4	461.9	747.9	594.3	448.6	401.5	388.2
82.5°	169.7	155.4	209.6	200.8	190.1	358.9	604.0	485.9	366.9	324.2	320.7
85°	73.7	98.6	138.6	121.7	110.1	248.7	484.1	411.3	310.0	267.4	266.5
87.5°	15.1	37.3	58.6	55.1	56.8	166.1	343.8	292.2	219.4	164.3	128.8
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)