

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: P950562

Luminaire Tested: **GALN-SB5A-722-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950562
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-SB5A-722-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18682 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

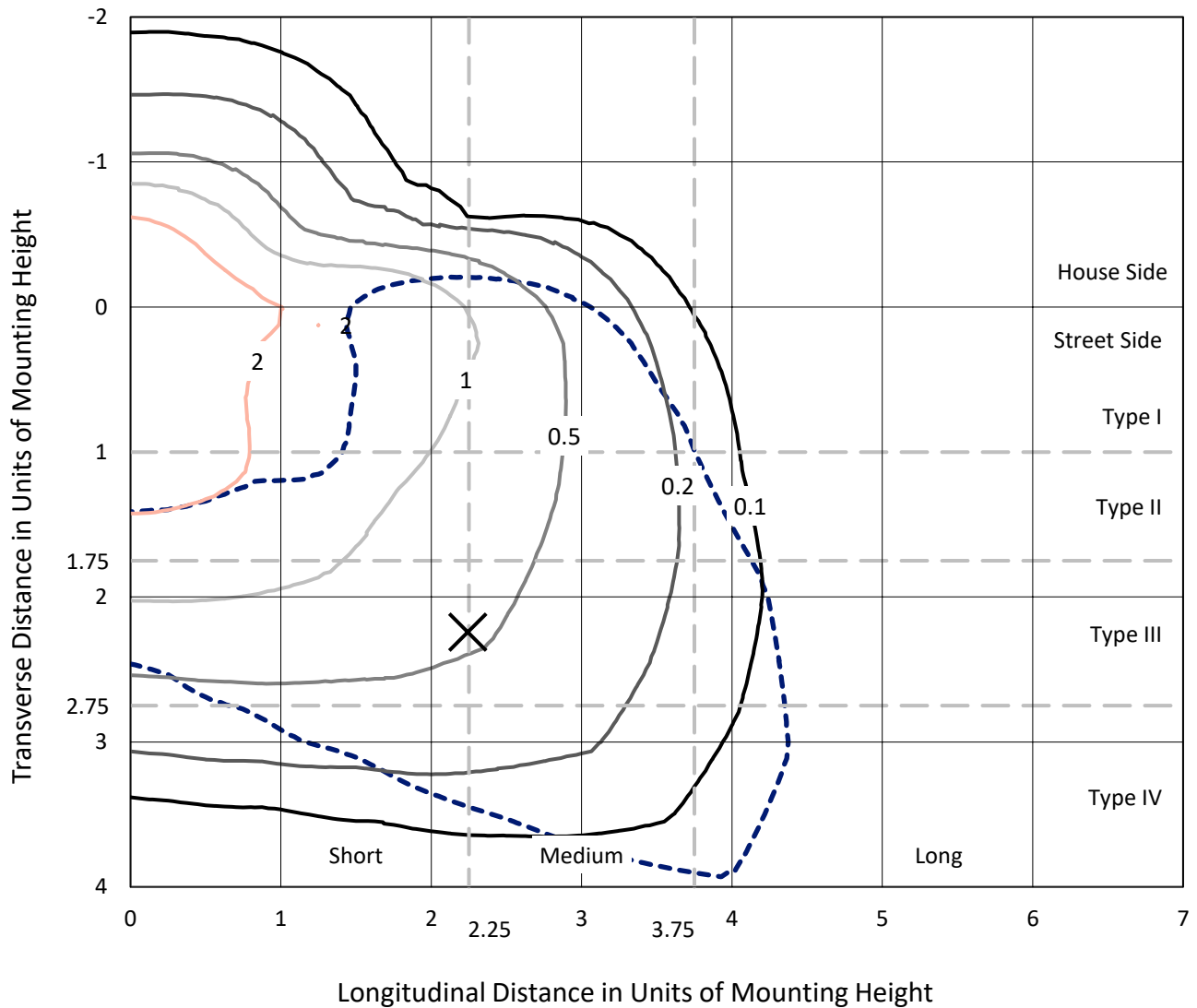
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

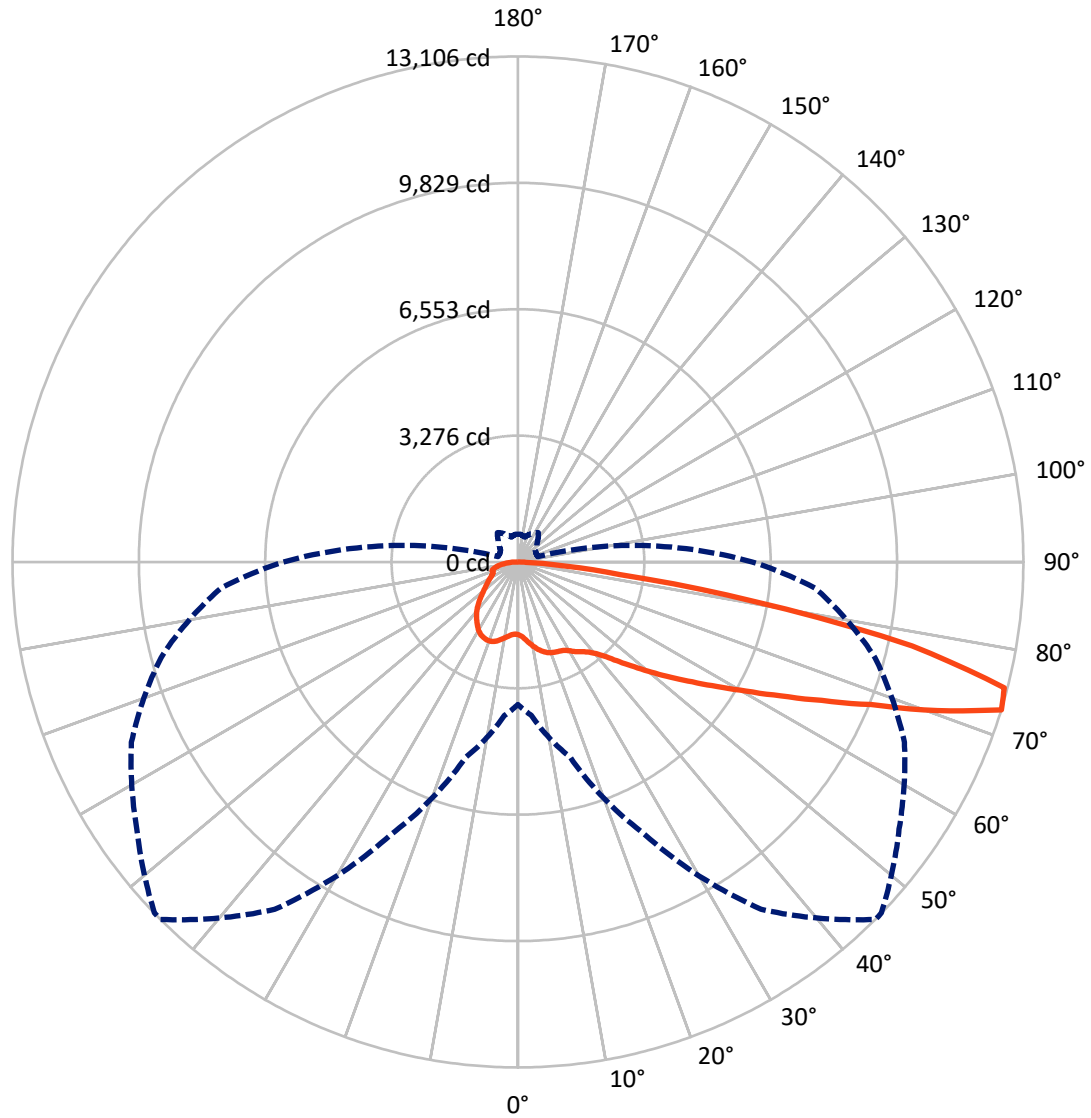
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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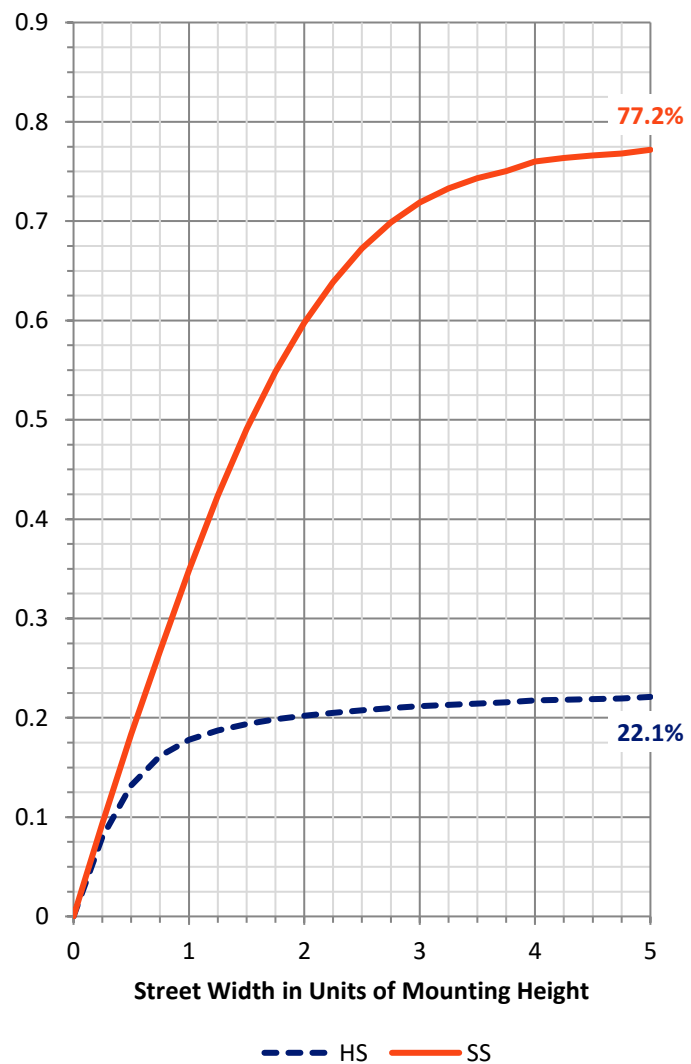
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4223.4	0.0	4223.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	14458.6	0.0	14458.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	18682.0	0.0	18682.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.8	1.0
10°-20°	639.6	3.4
20°-30°	1112.5	6.0
30°-40°	1594.9	8.5
40°-50°	2245.7	12.0
50°-60°	3439.7	18.4
60°-70°	4983.0	26.7
70°-80°	3979.2	21.3
80°-90°	495.6	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°	18682.0	100.0
0°-180°	18682.0	100.0

Coefficient of Utilization



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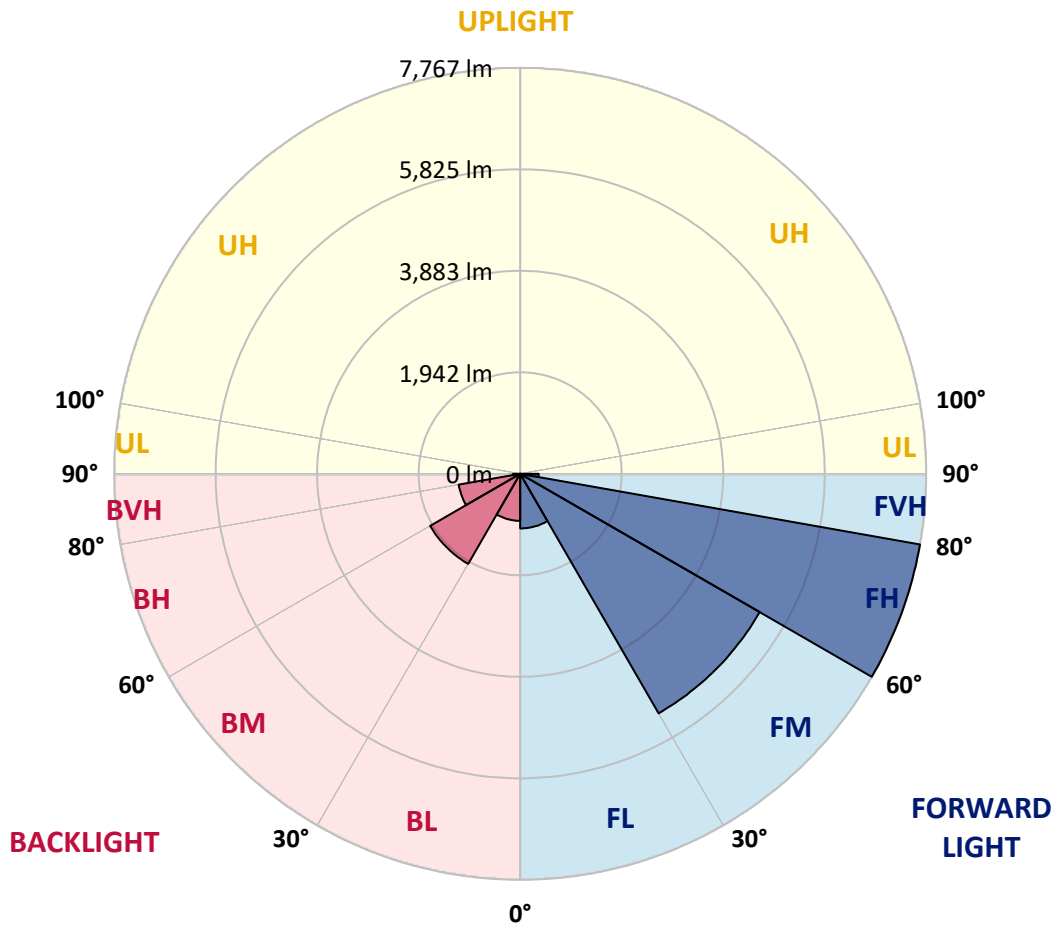
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1044.7	5.6			
FM (30°-60°)	5291.7	28.3			
FH (60°-80°)	7766.7	41.6			G4/12000
FVH (80°-90°)	355.5	1.9			G3/500
BL (0°-30°)	899.2	4.8	B2/1000		
BM (30°-60°)	1988.6	10.6	B2/2500		
BH (60°-80°)	1195.5	6.4	B3/2500		G3/2500
BVH (80°-90°)	140.0	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1884.7	1884.7	1884.7	1884.7	1884.7	1884.7	1884.7	1884.7	1884.7	1884.7	1884.7
2.5°	1958.5	1971.3	1959.4	1948.6	1943.7	1930.9	1929.9	1922.0	1917.1	1903.3	1899.4
5°	2095.3	2112.0	2092.3	2070.7	2051.0	2019.5	2015.5	1992.9	1967.3	1937.8	1921.1
7.5°	2249.8	2264.5	2241.9	2209.4	2175.0	2122.8	2121.8	2080.5	2040.1	1990.0	1961.4
10°	2384.6	2404.3	2373.8	2329.5	2286.2	2227.1	2220.2	2173.0	2121.8	2056.9	2013.6
12.5°	2503.7	2517.5	2487.9	2433.8	2383.6	2324.6	2315.7	2263.5	2206.5	2132.7	2077.5
15°	2598.2	2615.9	2576.5	2518.4	2465.3	2407.2	2399.4	2352.1	2295.0	2217.3	2146.4
17.5°	2660.2	2674.9	2634.6	2569.6	2518.4	2470.2	2464.3	2424.9	2374.8	2296.0	2220.2
20°	2683.8	2699.5	2657.2	2591.3	2544.0	2506.6	2503.7	2475.1	2440.7	2368.9	2292.1
22.5°	2707.4	2722.2	2667.1	2598.2	2556.8	2533.2	2532.2	2513.5	2499.7	2440.7	2365.9
25°	2802.9	2806.8	2733.0	2633.6	2574.5	2553.9	2552.9	2551.9	2557.8	2511.6	2445.6
27.5°	2885.5	2884.5	2821.6	2728.1	2636.5	2593.2	2592.3	2602.1	2620.8	2582.4	2528.3
30°	3006.6	2995.8	2921.0	2823.5	2739.9	2673.0	2667.1	2658.2	2673.0	2642.4	2611.0
32.5°	3263.4	3229.0	3108.0	2934.7	2825.5	2774.3	2766.4	2711.3	2717.2	2698.5	2682.8
35°	3631.5	3586.2	3424.8	3145.3	2931.8	2859.0	2855.0	2785.1	2773.3	2756.6	2762.5
37.5°	4069.5	4013.4	3825.4	3450.4	3114.8	2957.4	2951.5	2888.5	2840.3	2822.5	2856.0
40°	4509.4	4438.5	4283.0	3822.4	3384.5	3121.7	3103.0	3007.6	2952.5	2922.9	2993.8
42.5°	4936.5	4877.5	4744.6	4239.7	3717.1	3361.9	3320.5	3157.2	3115.8	3088.3	3216.2
45°	5314.4	5261.3	5163.8	4685.5	4106.9	3688.6	3648.2	3381.5	3368.8	3368.8	3553.8
47.5°	5621.5	5609.7	5506.3	5140.2	4566.5	4060.6	3990.7	3693.5	3728.0	3781.1	4033.1
50°	5962.0	5929.5	5819.3	5588.0	5106.8	4486.7	4429.7	4076.4	4205.3	4350.9	4725.9
52.5°	6275.0	6292.7	6169.6	6054.5	5716.9	4962.1	4861.7	4528.1	4806.6	5047.7	5537.8
55°	6596.8	6597.8	6563.3	6547.6	6356.6	5487.6	5377.4	5071.3	5514.2	5813.4	6484.6
57.5°	6898.9	6900.9	6952.0	7090.8	7098.7	6093.9	5968.9	5738.6	6300.5	6605.6	7460.9
60°	7168.6	7182.3	7322.1	7646.9	7751.2	6788.7	6670.6	6526.9	7113.4	7420.5	8487.3
62.5°	7259.1	7309.3	7620.3	8081.9	8395.8	7641.0	7524.8	7439.2	7967.7	8253.1	9345.5
65°	7105.6	7220.7	7822.0	8441.1	9059.1	8653.6	8538.5	8445.0	8855.4	9124.1	10050.2
67.5°	6728.6	6877.3	7810.2	8818.0	9864.2	9872.0	9764.8	9545.3	9807.1	9910.4	10279.5
70°	5735.6	5958.1	7122.3	8958.7	10788.3	11538.2	11434.9	10870.0	10756.8	10256.8	9633.9
72.5°	3695.5	3994.7	5244.5	7800.4	10994.0	13105.9	13100.0	12065.7	11056.9	9583.7	7726.6
75°	1348.3	1531.3	2436.8	4896.2	9228.4	13026.2	13064.6	11861.0	10093.5	7402.8	4813.5
77.5°	491.1	537.3	795.2	1881.7	5675.6	10451.7	10531.4	9482.3	7184.3	3715.2	1907.3
80°	257.8	283.4	407.4	730.2	2431.8	6207.0	6332.0	5635.3	3376.6	1119.0	571.8
82.5°	142.7	154.5	228.3	396.6	1095.4	2654.3	2729.1	2226.2	1187.9	474.4	236.2
85°	76.8	81.7	107.3	216.5	535.4	920.2	940.8	665.3	473.4	278.5	114.2
87.5°	22.6	27.6	35.4	68.9	209.6	206.7	211.6	131.9	187.0	140.7	37.4
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°	1884.7	1884.7	1884.7	1884.7	1884.7	1884.7	1884.7	1884.7	1884.7	1884.7	1884.7
2.5°	1893.5	1890.6	1879.7	1874.8	1868.9	1867.9	1872.8	1873.8	1874.8	1875.8	1879.7
5°	1911.2	1901.4	1891.5	1885.6	1887.6	1888.6	1898.4	1905.3	1910.2	1914.2	1916.1
7.5°	1945.7	1937.8	1921.1	1920.1	1923.0	1931.9	1944.7	1960.4	1969.3	1976.2	1978.1
10°	1996.8	1982.1	1962.4	1965.4	1971.3	1984.0	2010.6	2023.4	2038.2	2051.0	2048.0
12.5°	2049.0	2036.2	2013.6	2015.5	2025.4	2048.0	2073.6	2089.4	2099.2	2109.0	2113.0
15°	2116.9	2094.3	2069.7	2069.7	2087.4	2112.0	2123.8	2136.6	2142.5	2153.3	2157.3
17.5°	2186.8	2157.3	2124.8	2122.8	2144.5	2156.3	2163.2	2165.1	2167.1	2178.9	2182.8
20°	2256.7	2224.2	2177.9	2174.0	2178.9	2176.9	2176.0	2174.0	2176.9	2191.7	2197.6
22.5°	2325.6	2288.2	2224.2	2206.5	2192.7	2174.0	2173.0	2172.0	2174.0	2188.8	2198.6
25°	2406.3	2361.0	2275.4	2222.2	2176.0	2150.4	2153.3	2154.3	2156.3	2168.1	2183.8
27.5°	2493.8	2443.6	2322.6	2217.3	2133.6	2115.9	2111.0	2114.0	2120.8	2139.5	2158.2
30°	2581.4	2522.4	2365.9	2197.6	2080.5	2055.9	2040.1	2047.0	2068.7	2087.4	2108.1
32.5°	2661.1	2602.1	2400.3	2154.3	2012.6	1974.2	1953.5	1962.4	1984.0	1990.9	2015.5
35°	2754.6	2687.7	2415.1	2085.4	1938.8	1879.7	1852.2	1839.4	1850.2	1843.3	1865.0
37.5°	2859.0	2789.1	2413.1	1994.9	1852.2	1784.3	1745.9	1697.7	1675.0	1651.4	1666.2
40°	3013.5	2913.1	2389.5	1885.6	1744.9	1682.9	1614.0	1532.3	1481.1	1434.9	1437.8
42.5°	3224.1	3085.3	2346.2	1765.6	1623.9	1565.8	1472.3	1376.8	1296.1	1219.4	1212.5
45°	3538.0	3310.7	2292.1	1637.6	1493.0	1435.9	1334.5	1227.2	1135.7	1037.3	1025.5
47.5°	3990.7	3613.8	2240.9	1492.0	1355.2	1303.0	1211.5	1112.1	1003.8	908.4	897.5
50°	4612.7	4048.8	2193.7	1350.3	1219.4	1180.0	1107.2	1005.8	896.6	819.8	814.9
52.5°	5404.0	4640.3	2174.0	1213.5	1092.4	1077.6	1019.6	925.1	821.8	756.8	751.9
55°	6312.3	5347.9	2174.0	1082.6	981.2	986.1	945.8	858.2	768.6	710.6	704.7
57.5°	7239.4	6064.3	2134.6	961.5	886.7	907.4	881.8	805.0	724.3	664.3	654.5
60°	8093.7	6664.7	1975.2	851.3	803.1	835.5	818.8	752.9	654.5	604.3	596.4
62.5°	8750.1	7003.2	1668.1	763.7	734.2	771.6	762.7	684.0	641.7	621.0	614.1
65°	9078.8	6948.1	1275.5	686.0	676.1	734.2	715.5	712.5	679.1	655.4	647.6
67.5°	8877.0	6473.7	925.1	628.9	642.7	699.7	771.6	783.4	721.4	675.1	667.3
70°	7992.3	5615.6	688.9	574.7	600.3	700.7	879.8	819.8	707.6	653.5	644.6
72.5°	6080.1	4187.6	534.4	517.7	545.2	705.6	928.1	803.1	668.2	722.4	716.5
75°	3477.0	2299.0	429.1	447.8	476.3	659.4	903.5	759.8	637.7	663.3	663.3
77.5°	1325.7	883.8	354.3	378.9	382.8	575.7	864.1	756.8	607.2	592.5	540.3
80°	459.6	345.4	293.3	301.2	296.2	511.8	828.7	658.4	497.0	444.8	430.1
82.5°	188.0	172.2	232.3	222.4	210.6	397.6	669.2	538.3	406.5	359.2	355.3
85°	81.7	109.2	153.5	134.8	122.0	275.6	536.4	455.7	343.5	296.2	295.2
87.5°	16.7	41.3	65.0	61.0	63.0	184.0	380.9	323.8	243.1	182.1	142.7
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)