

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P639222

Luminaire Tested: GWS-SA5B-735-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-735-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17362.4 lumens
Efficiency: N/A
Efficacy: 150.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

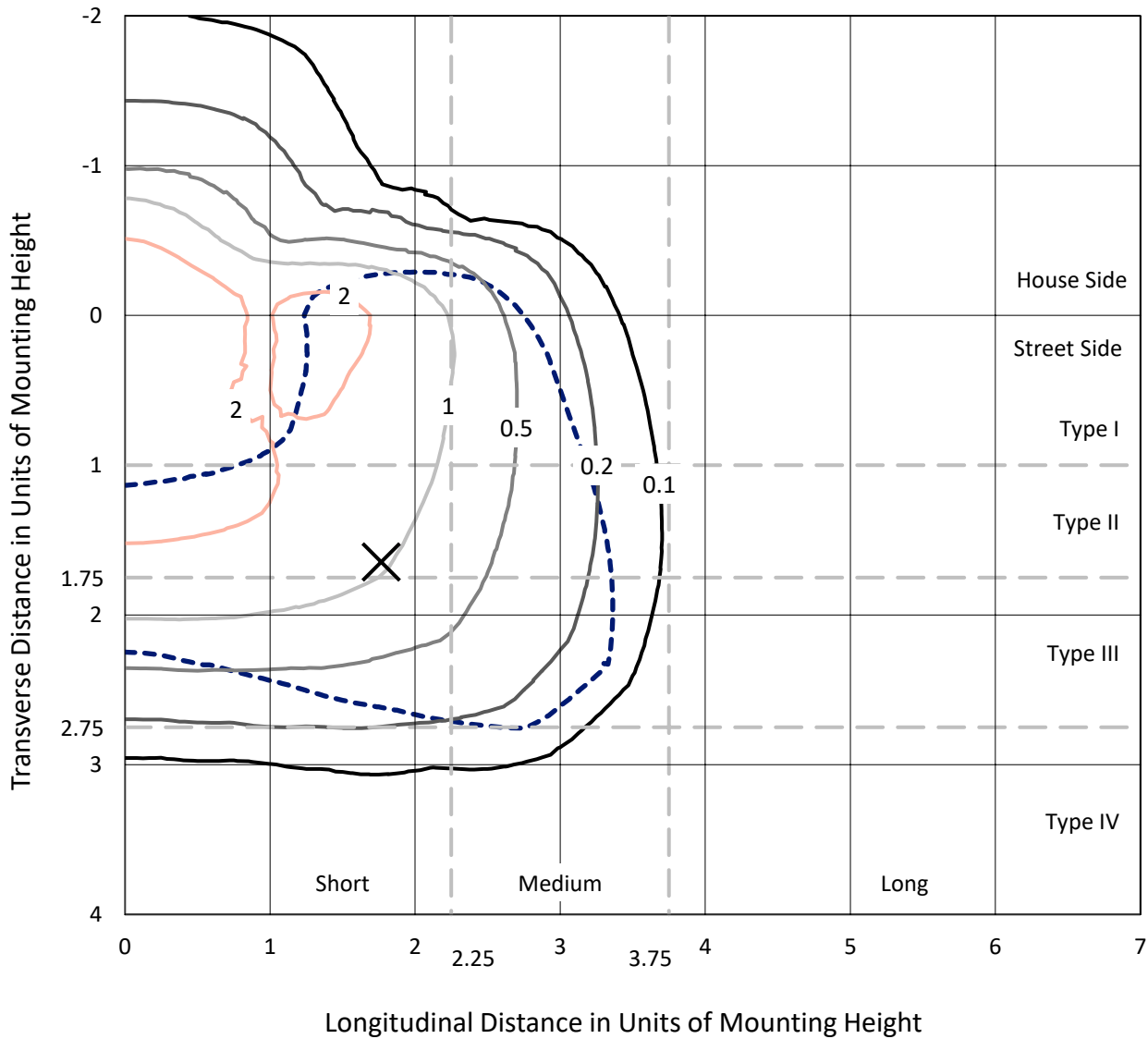
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

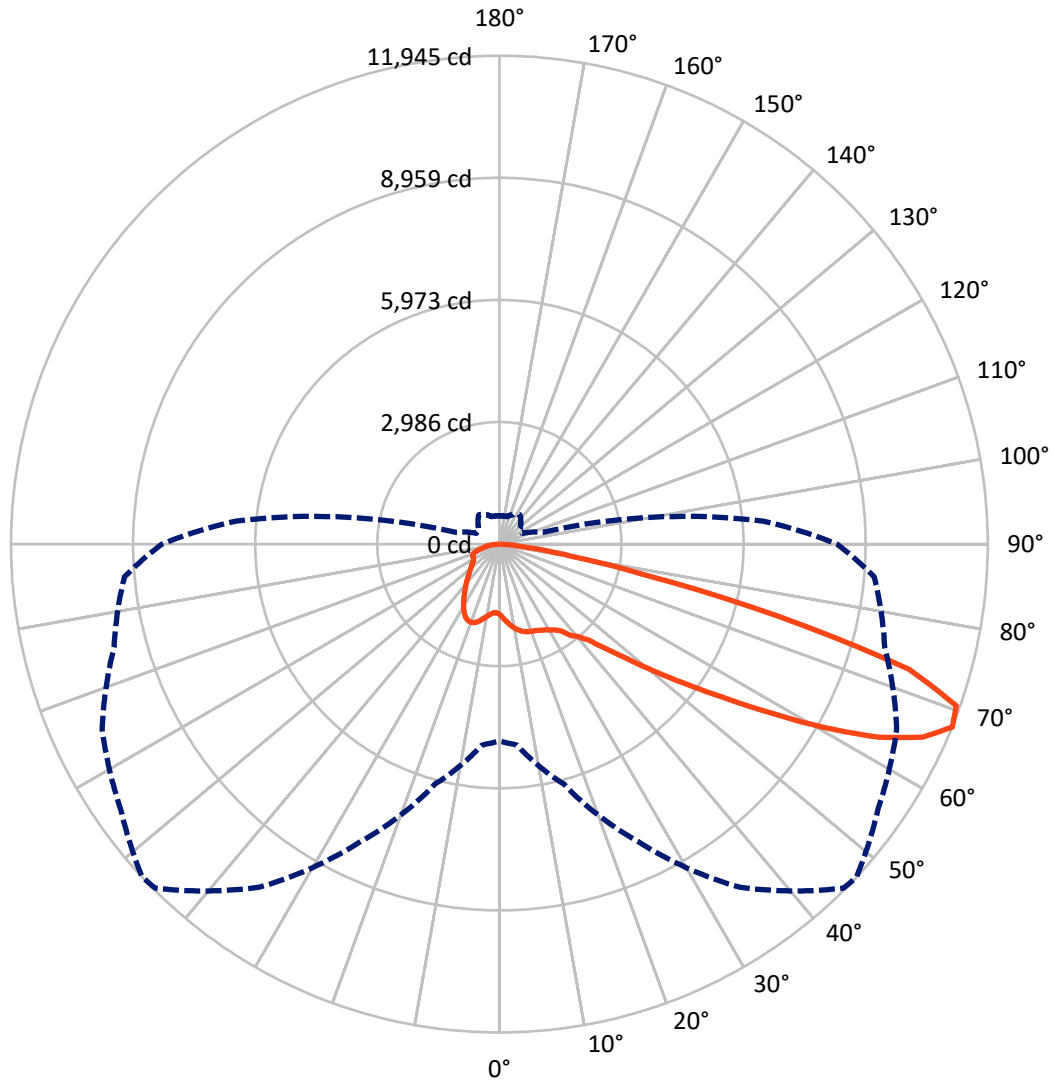
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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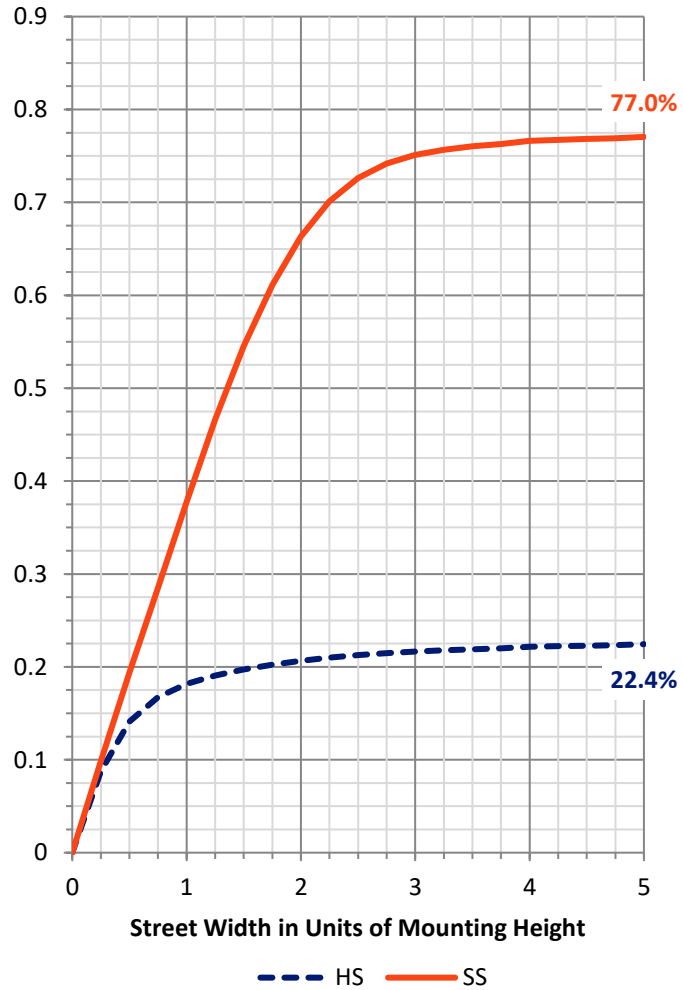
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3957.0	0.0	3957.0
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	13405.4	0.0	13405.4
	% Fixture	77.2	0.0	77.2
Total	Lumens	17362.4	0.0	17362.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.9	1.0
10°-20°	586.0	3.4
20°-30°	996.1	5.7
30°-40°	1459.2	8.4
40°-50°	2223.3	12.8
50°-60°	3978.0	22.9
60°-70°	5308.2	30.6
70°-80°	2400.5	13.8
80°-90°	235.2	1.4
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°	17362.4	100.0
0°-180°	17362.4	100.0

Coefficient of Utilization



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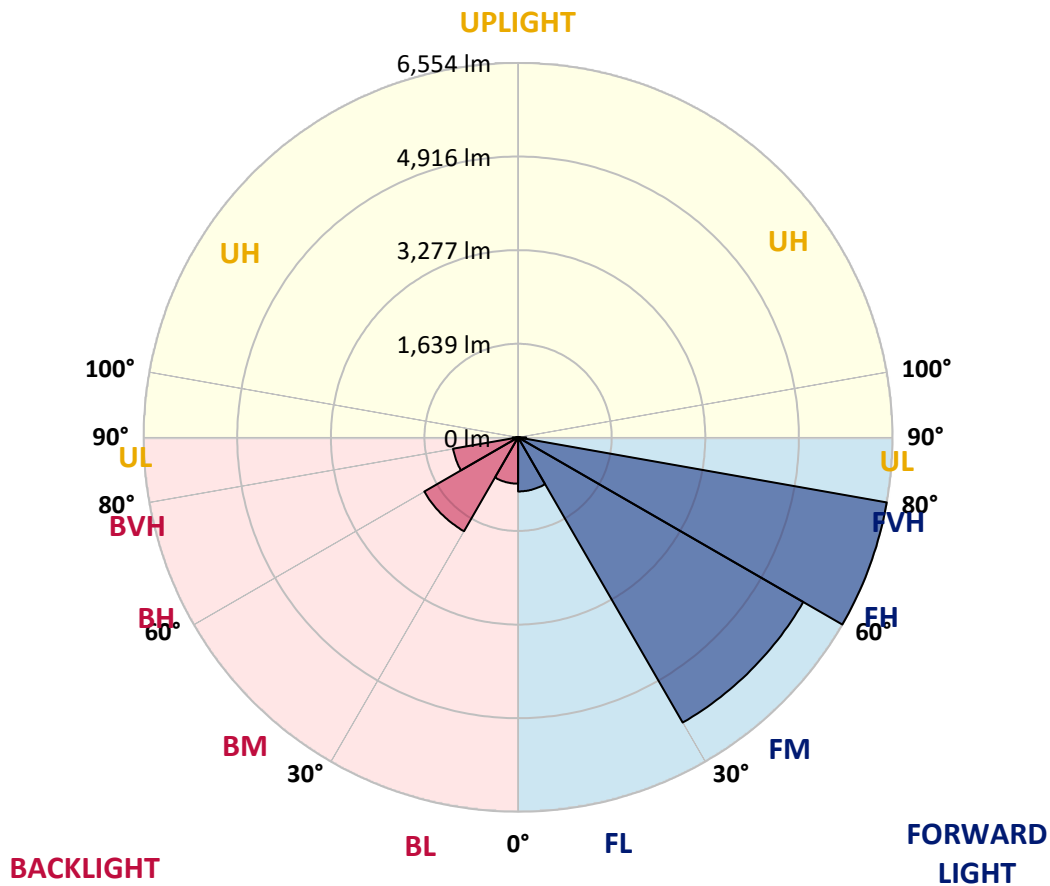
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	946.9	5.5			
FM (30°-60°)	5764.5	33.2			
FH (60°-80°)	6554.1	37.7			G3/7500
FVH (80°-90°)	139.9	0.8			G2/225
BL (0°-30°)	811.2	4.7	B2/1000		
BM (30°-60°)	1896.0	10.9	B2/2500		
BH (60°-80°)	1154.5	6.6	B3/2500		G3/2500
BVH (80°-90°)	95.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1721.2	1721.2	1721.2	1721.2	1721.2	1721.2	1721.2	1721.2	1721.2	1721.2	1721.2
2.5°	1835.4	1841.7	1840.4	1830.4	1824.1	1812.8	1814.1	1796.5	1770.1	1752.5	1732.5
5°	1997.4	2007.4	1994.8	1978.5	1953.4	1917.0	1913.2	1873.1	1822.9	1787.7	1751.3
7.5°	2138.0	2144.2	2129.2	2101.6	2065.1	2016.2	2007.4	1959.7	1896.9	1841.7	1789.0
10°	2247.2	2254.7	2234.6	2198.2	2150.5	2101.6	2095.3	2046.3	1979.8	1914.5	1848.0
12.5°	2340.1	2342.6	2321.2	2272.3	2220.8	2170.6	2164.3	2119.1	2057.6	1991.1	1918.3
15°	2394.1	2395.3	2369.0	2315.0	2266.0	2222.1	2218.3	2179.4	2122.9	2060.1	1982.3
17.5°	2390.3	2392.8	2374.0	2326.3	2283.6	2257.2	2253.5	2228.3	2184.4	2127.9	2050.1
20°	2343.8	2346.4	2333.8	2302.4	2279.8	2272.3	2273.5	2266.0	2239.6	2193.2	2114.1
22.5°	2307.4	2311.2	2299.9	2277.3	2274.8	2292.4	2296.1	2299.9	2287.4	2245.9	2169.3
25°	2325.0	2331.3	2313.7	2282.3	2287.4	2326.3	2333.8	2346.4	2336.3	2301.2	2234.6
27.5°	2446.8	2450.6	2405.4	2341.3	2326.3	2367.7	2379.0	2399.1	2391.6	2358.9	2307.4
30°	2729.3	2726.7	2630.1	2473.2	2410.4	2426.7	2435.5	2464.4	2466.9	2445.5	2396.6
32.5°	3127.2	3114.7	2965.3	2715.4	2533.4	2493.2	2503.3	2542.2	2571.1	2548.5	2481.9
35°	3547.8	3536.5	3372.0	3079.5	2760.6	2621.3	2610.0	2640.1	2684.1	2621.3	2525.9
37.5°	3948.3	3930.7	3762.5	3400.9	3040.6	2846.0	2829.7	2799.6	2773.2	2652.7	2579.9
40°	4392.7	4372.6	4225.7	3816.4	3349.4	3018.0	2976.6	2857.3	2833.5	2756.9	2720.5
42.5°	4867.2	4867.2	4745.4	4342.5	3722.3	3264.1	3210.1	3030.6	3055.7	3005.4	2962.8
45°	5341.8	5355.6	5258.9	4872.2	4220.7	3728.6	3641.9	3387.1	3447.3	3424.8	3403.4
47.5°	5746.0	5772.4	5753.5	5413.3	4830.8	4293.5	4161.7	3896.8	4026.1	4080.1	4140.3
50°	6181.6	6210.5	6191.7	6057.3	5545.1	4977.7	4859.7	4586.0	4808.2	4970.2	5167.3
52.5°	6828.2	6869.6	6712.7	6661.2	6412.6	5754.8	5649.3	5338.0	5741.0	6009.6	6449.0
55°	7374.3	7373.0	7317.8	7435.8	7344.1	6705.1	6588.4	6305.9	6820.6	7105.6	7748.4
57.5°	7627.9	7658.0	7847.6	8181.5	8364.8	7866.4	7754.7	7465.9	7979.4	8127.5	8821.7
60°	7758.4	7796.1	8162.7	8823.0	9316.4	9134.3	9090.4	8722.6	9011.3	8993.7	9726.9
62.5°	7575.1	7650.5	8239.2	9116.8	9995.6	10408.6	10394.8	9838.6	9888.8	9716.9	10288.1
65°	6734.0	6815.6	7739.6	8969.9	10383.5	11377.8	11381.5	10849.2	10563.0	10068.4	10193.9
67.5°	4815.7	4932.5	6074.9	8025.8	10246.6	11901.3	11945.2	11307.5	10721.2	9757.0	9204.6
70°	2625.1	2710.4	3605.5	5833.9	9013.8	11775.7	11857.3	11086.5	10023.2	8440.1	7085.5
72.5°	1192.6	1220.3	1677.2	3201.3	6157.8	10136.2	10477.6	9893.9	8231.7	6234.4	4505.7
75°	546.1	558.7	730.6	1531.6	3217.6	6783.0	7022.7	7369.2	5728.4	3937.0	2348.9
77.5°	342.7	346.5	415.5	700.5	1604.4	3385.8	3638.2	4387.6	3354.4	1948.4	981.7
80°	202.1	205.9	258.6	379.1	753.2	1549.2	1789.0	1735.0	1576.8	841.1	446.9
82.5°	101.7	105.5	149.4	215.9	410.5	616.4	725.6	729.4	587.5	455.7	252.3
85°	36.4	37.7	49.0	85.4	174.5	203.4	227.2	277.4	287.5	264.9	121.8
87.5°	0.0	0.0	1.3	2.5	5.0	20.1	21.3	40.2	84.1	94.2	49.0
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°	1721.2	1721.2	1721.2	1721.2	1721.2	1721.2	1721.2	1721.2	1721.2	1721.2	1721.2
2.5°	1726.2	1707.4	1701.1	1694.8	1684.8	1681.0	1673.5	1665.9	1665.9	1658.4	1654.6
5°	1735.0	1709.9	1693.5	1686.0	1679.7	1683.5	1683.5	1686.0	1694.8	1689.8	1692.3
7.5°	1766.4	1737.5	1714.9	1708.6	1708.6	1723.7	1733.7	1746.3	1762.6	1765.1	1765.1
10°	1821.6	1787.7	1763.8	1760.1	1766.4	1787.7	1802.8	1817.8	1837.9	1839.2	1841.7
12.5°	1881.9	1848.0	1824.1	1829.1	1835.4	1863.0	1879.3	1891.9	1912.0	1912.0	1910.7
15°	1944.6	1907.0	1886.9	1896.9	1915.8	1947.1	1949.6	1950.9	1960.9	1958.4	1957.2
17.5°	2009.9	1969.7	1954.7	1969.7	1989.8	2004.9	1992.3	1974.8	1971.0	1966.0	1963.5
20°	2073.9	2032.5	2026.2	2037.5	2043.8	2031.2	1992.3	1959.7	1944.6	1937.1	1934.6
22.5°	2129.2	2094.0	2090.3	2090.3	2058.9	2014.9	1957.2	1913.2	1893.2	1883.1	1880.6
25°	2194.5	2161.8	2155.5	2121.6	2041.3	1960.9	1883.1	1842.9	1826.6	1821.6	1822.9
27.5°	2271.0	2248.4	2228.3	2131.7	1991.1	1865.5	1777.7	1760.1	1753.8	1760.1	1763.8
30°	2365.2	2342.6	2297.4	2119.1	1910.7	1741.2	1657.1	1655.9	1674.7	1691.0	1693.5
32.5°	2441.8	2431.7	2357.7	2079.0	1797.7	1604.4	1532.9	1537.9	1571.8	1594.4	1598.1
35°	2502.0	2518.3	2407.9	2012.4	1663.4	1475.1	1418.6	1421.1	1440.0	1471.3	1472.6
37.5°	2587.4	2642.6	2453.1	1910.7	1509.0	1363.4	1311.9	1293.1	1290.6	1299.3	1301.9
40°	2759.4	2842.2	2485.7	1762.6	1359.6	1262.9	1205.2	1168.8	1137.4	1113.5	1106.0
42.5°	3019.3	3114.7	2504.5	1583.1	1226.5	1163.8	1098.5	1052.0	996.8	946.6	929.0
45°	3496.3	3527.7	2504.5	1392.2	1108.5	1070.9	1005.6	950.3	880.0	821.0	808.5
47.5°	4259.6	4159.2	2507.0	1207.7	1004.3	989.3	932.8	870.0	792.2	743.2	735.7
50°	5409.5	5056.8	2558.5	1054.5	917.7	920.2	878.8	809.7	739.4	703.0	696.8
52.5°	6712.7	6162.8	2696.6	941.6	844.9	863.7	841.1	774.6	711.8	680.4	674.2
55°	7937.9	7179.7	2814.6	861.2	783.4	816.0	814.8	753.2	696.8	665.4	661.6
57.5°	8979.9	7876.4	2797.0	795.9	730.6	772.1	790.9	739.4	686.7	660.3	656.6
60°	9627.7	8245.5	2547.2	735.7	690.5	740.7	777.1	735.7	691.7	685.5	686.7
62.5°	9908.9	8177.7	2067.7	690.5	664.1	725.6	792.2	762.0	738.2	753.2	762.0
65°	9472.0	7595.2	1521.6	656.6	639.0	729.4	827.3	803.5	738.2	748.2	752.0
67.5°	8259.3	6465.3	1099.7	622.7	607.6	740.7	877.5	797.2	695.5	695.5	688.0
70°	5951.9	4650.0	798.4	588.8	576.2	724.4	880.0	754.5	646.5	642.8	623.9
72.5°	3581.7	2743.1	622.7	551.1	528.5	642.8	824.8	704.3	598.8	567.4	544.8
75°	1860.5	1374.7	522.2	509.7	453.2	544.8	754.5	626.4	512.2	484.6	472.0
77.5°	797.2	642.8	448.2	454.5	376.6	458.2	608.9	542.3	454.5	419.3	408.0
80°	392.9	365.3	354.0	364.1	301.3	354.0	524.8	474.5	385.4	345.2	328.9
82.5°	224.7	213.4	254.8	258.6	214.7	296.3	443.2	401.7	318.9	274.9	248.6
85°	104.2	111.7	154.4	155.7	133.1	203.4	290.0	226.0	169.5	140.6	134.3
87.5°	41.4	49.0	67.8	66.5	38.9	37.7	25.1	13.8	11.3	10.0	8.8
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)