

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: P636542

Luminaire Tested: GWS-SA4B-722-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636542
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-722-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9398.7 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

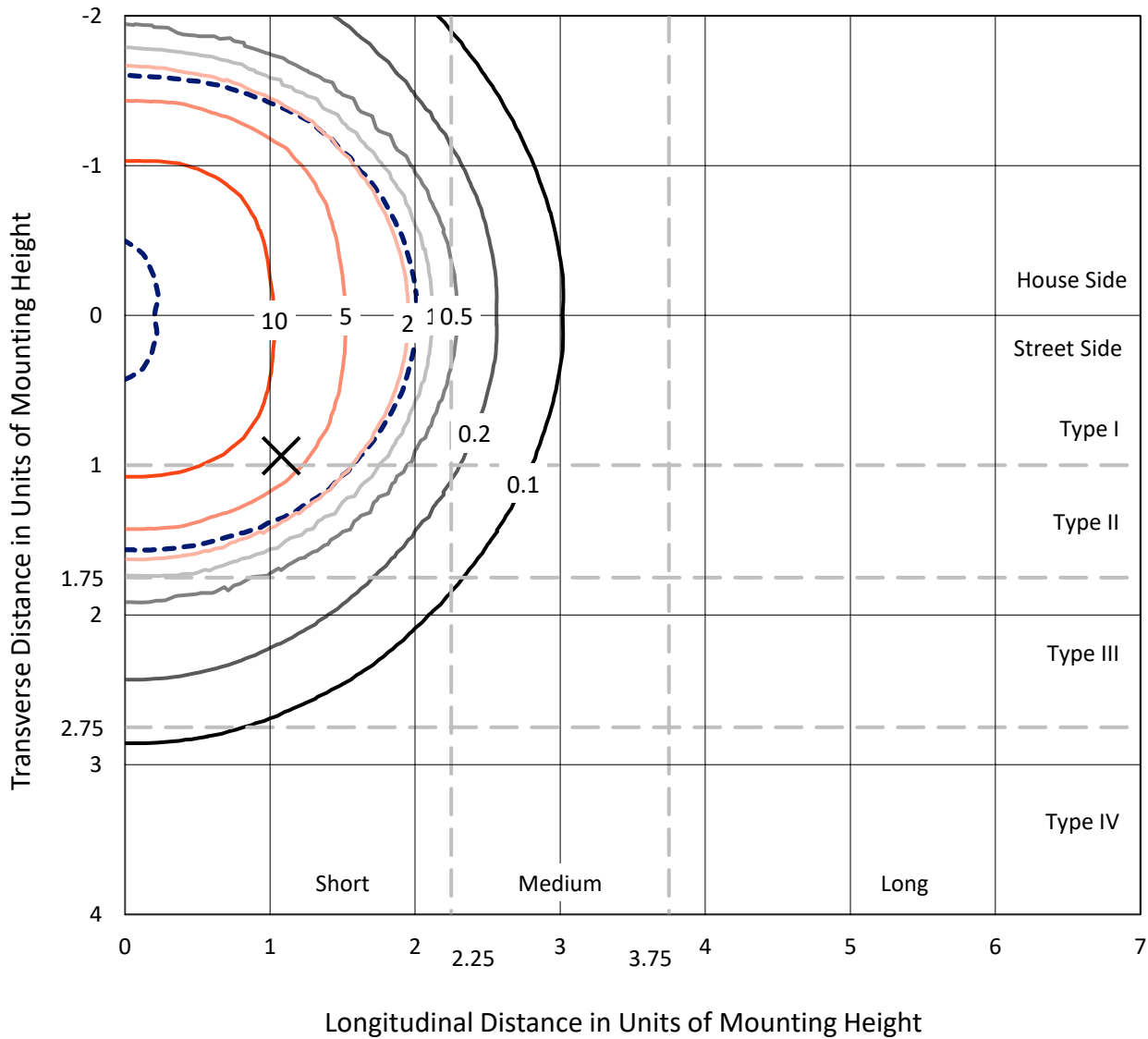
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

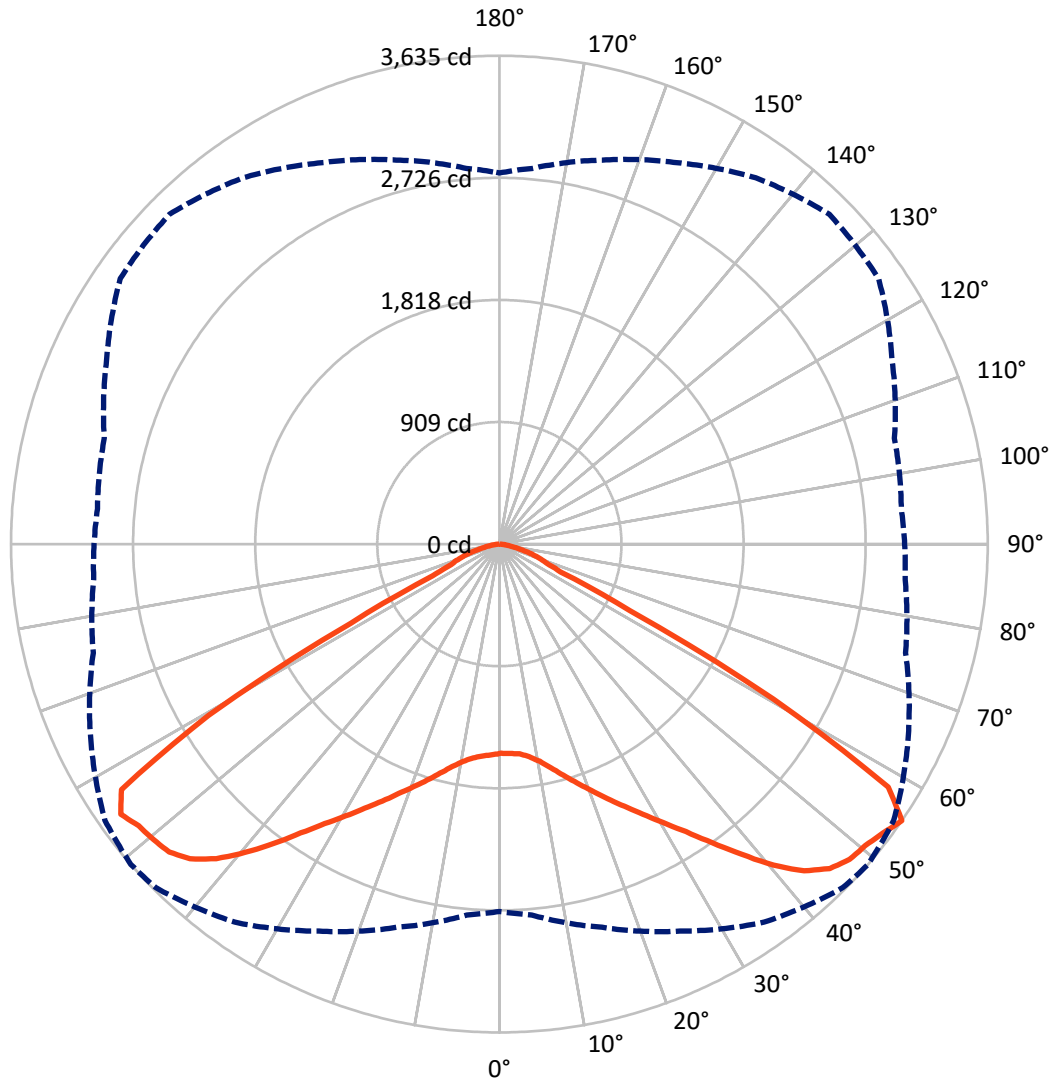
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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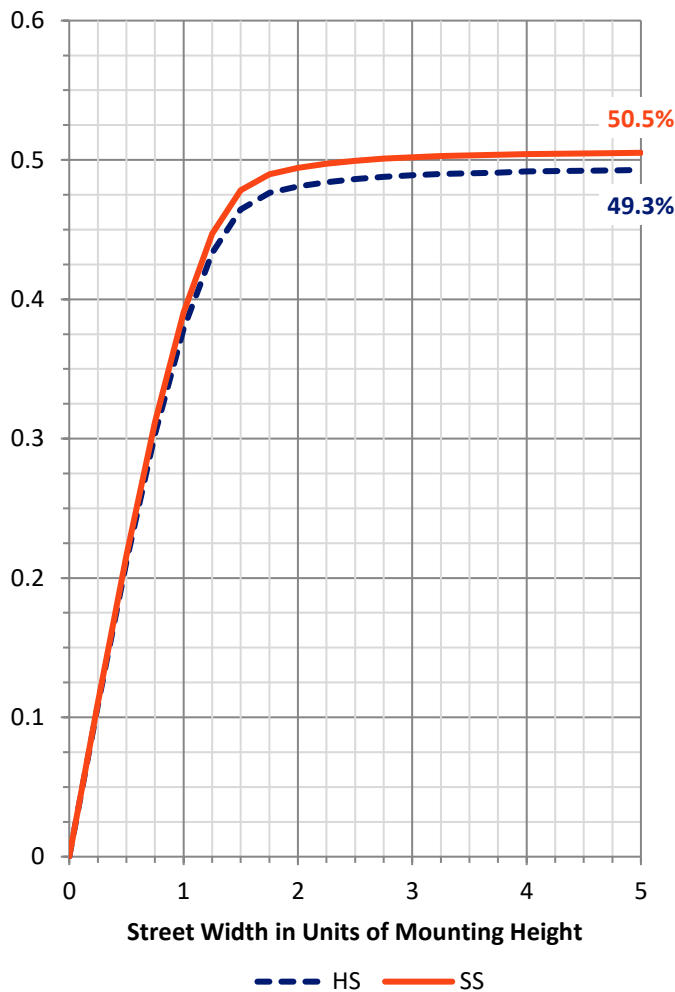
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4653.3	0.0	4653.3
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	4745.4	0.0	4745.4
	% Fixture	50.5	0.0	50.5
Total	Lumens	9398.7	0.0	9398.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.9	1.6
10°-20°	501.0	5.3
20°-30°	954.2	10.2
30°-40°	1617.6	17.2
40°-50°	2434.3	25.9
50°-60°	2664.6	28.4
60°-70°	842.6	9.0
70°-80°	202.2	2.2
80°-90°	30.4	0.3
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°	9398.7	100.0
0°-180°	9398.7	100.0

Coefficient of Utilization



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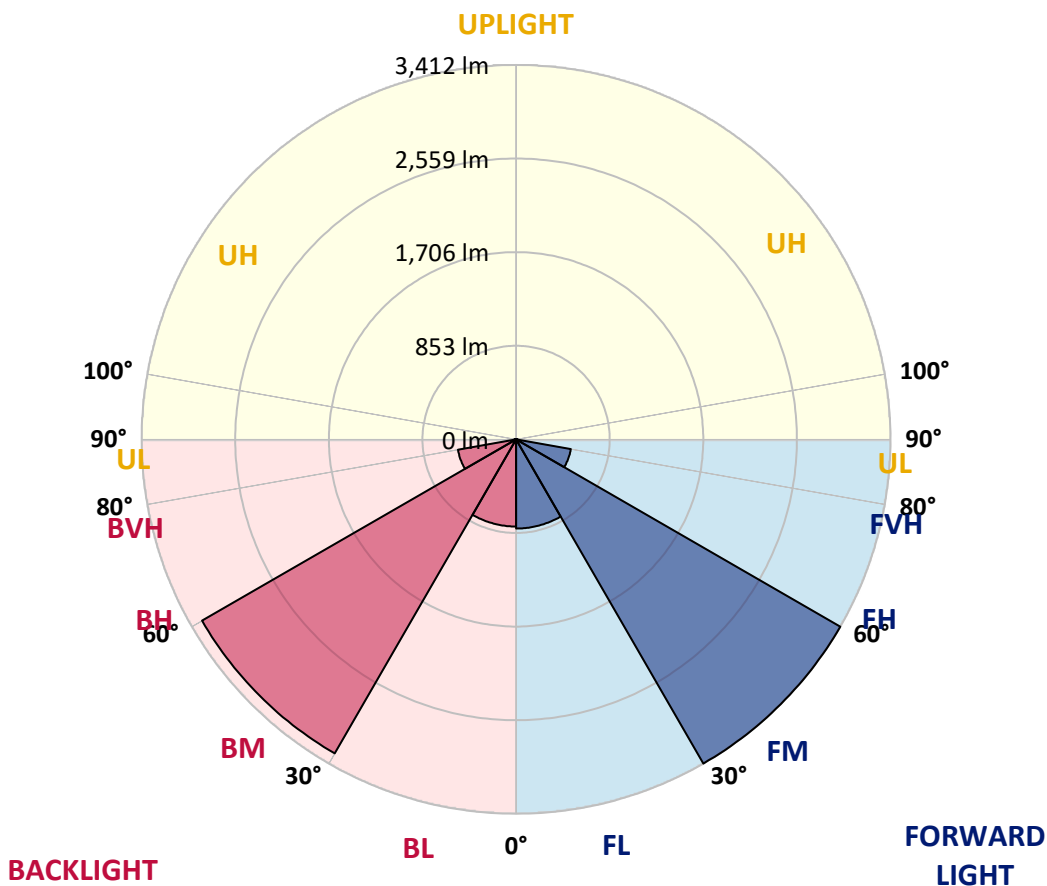
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	812.6	8.6			
FM (30°-60°)	3412.0	36.3			
FH (60°-80°)	506.8	5.4			G0/660
FVH (80°-90°)	14.1	0.1			G1/100
BL (0°-30°)	794.5	8.5	B2/1000		
BM (30°-60°)	3304.5	35.2	B3/5000		
BH (60°-80°)	538.0	5.7	B2/1000		G0/660
BVH (80°-90°)	16.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0
2.5°	1534.0	1535.6	1538.6	1544.0	1549.3	1557.0	1560.0	1563.8	1563.1	1567.7	1567.7
5°	1526.4	1528.7	1533.3	1540.9	1550.1	1564.6	1568.4	1577.6	1586.8	1598.2	1602.0
7.5°	1535.6	1538.6	1544.0	1556.2	1569.9	1589.1	1596.7	1612.0	1629.6	1650.2	1658.6
10°	1553.1	1557.0	1566.1	1586.0	1608.2	1637.2	1644.1	1663.2	1691.5	1719.8	1736.6
12.5°	1573.0	1579.1	1595.9	1627.3	1660.1	1698.4	1709.1	1732.7	1763.3	1800.0	1822.9
15°	1595.9	1601.3	1627.3	1671.6	1722.8	1773.3	1785.5	1808.4	1842.8	1878.7	1910.8
17.5°	1644.1	1653.3	1683.8	1735.0	1794.7	1854.3	1868.0	1894.0	1921.5	1949.8	1980.4
20°	1709.8	1717.5	1756.4	1819.9	1890.2	1944.5	1958.2	1981.2	1994.2	2008.7	2034.7
22.5°	1775.6	1786.3	1830.6	1905.5	1988.0	2046.9	2057.6	2079.0	2069.8	2065.2	2082.1
25°	1857.3	1871.9	1915.4	1997.2	2081.3	2153.9	2162.3	2180.6	2165.4	2141.7	2140.9
27.5°	1959.0	1972.0	2017.1	2101.2	2184.5	2260.1	2276.2	2300.7	2267.0	2238.0	2217.3
30°	2079.8	2088.2	2137.8	2227.3	2312.9	2384.7	2405.4	2429.8	2404.6	2356.4	2335.8
32.5°	2220.4	2231.9	2289.2	2383.2	2459.6	2531.5	2552.1	2582.7	2555.2	2500.9	2474.9
35°	2389.3	2400.8	2461.2	2563.6	2641.5	2715.7	2730.2	2755.4	2721.0	2658.4	2637.7
37.5°	2572.8	2587.3	2663.7	2760.8	2842.6	2928.9	2929.7	2937.3	2888.4	2810.5	2787.5
40°	2779.1	2798.2	2874.7	2975.6	3074.2	3144.5	3143.7	3122.3	3039.8	2919.0	2883.8
42.5°	2983.2	2998.5	3075.7	3179.6	3278.2	3344.7	3324.9	3272.9	3153.6	2989.3	2942.7
45°	3130.7	3142.2	3223.2	3340.1	3440.3	3481.5	3445.6	3382.9	3221.7	3033.6	2964.9
47.5°	3200.3	3215.6	3297.3	3413.5	3526.6	3550.3	3507.5	3448.7	3261.4	3074.9	2982.4
50°	3162.8	3182.7	3275.2	3382.9	3510.6	3559.5	3528.9	3470.1	3303.5	3115.4	3013.8
52.5°	3065.8	3084.9	3201.8	3332.5	3477.0	3574.0	3573.3	3525.1	3351.6	3126.9	3015.3
55°	2734.0	2771.5	2953.4	3178.9	3435.7	3616.8	3635.2	3584.0	3359.3	3130.0	3031.4
57.5°	1779.4	1845.1	2017.8	2311.4	2826.5	3289.7	3413.5	3425.8	3304.2	3117.0	3034.4
60°	742.9	795.7	932.5	1127.4	1553.1	2104.2	2344.2	2585.0	2875.4	2980.9	3006.1
62.5°	461.7	466.2	480.0	524.3	666.5	935.5	1089.9	1315.4	1747.3	2114.9	2284.6
65°	416.6	418.9	421.9	418.9	425.7	458.6	499.9	578.6	754.4	937.1	1154.1
67.5°	366.9	369.9	372.2	369.9	372.2	373.8	378.3	385.2	417.3	443.3	463.2
70°	296.6	301.1	305.0	303.4	312.6	312.6	317.2	322.5	338.6	357.7	371.5
72.5°	226.2	222.4	227.0	228.5	236.9	241.5	248.4	254.5	272.9	284.3	301.9
75°	146.8	142.9	149.8	153.6	165.1	171.2	177.3	183.4	196.4	204.1	220.9
77.5°	79.5	78.7	85.6	91.0	103.2	110.8	115.4	120.0	130.7	133.0	143.7
80°	45.9	45.9	50.4	54.3	61.9	70.3	74.9	78.7	86.4	88.7	93.2
82.5°	25.2	25.2	27.5	29.8	35.9	40.5	44.3	47.4	54.3	56.6	58.9
85°	12.2	11.5	13.0	14.5	16.8	19.1	21.4	22.9	28.3	29.8	32.9
87.5°	1.5	1.5	1.5	2.3	3.1	4.6	5.4	5.4	8.4	9.9	11.5
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°	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0
2.5°	1572.2	1562.3	1568.4	1570.7	1570.7	1568.4	1558.5	1555.4	1550.8	1544.0	1544.0
5°	1607.4	1599.8	1601.3	1597.5	1588.3	1576.8	1558.5	1549.3	1541.7	1533.3	1532.5
7.5°	1667.8	1657.8	1656.3	1641.8	1617.3	1592.9	1565.4	1548.5	1537.1	1526.4	1525.6
10°	1746.5	1737.3	1725.9	1696.8	1660.9	1625.0	1587.5	1564.6	1547.8	1532.5	1531.7
12.5°	1834.4	1823.7	1802.3	1759.5	1714.4	1679.2	1636.4	1601.3	1576.1	1555.4	1551.6
15°	1929.9	1914.7	1878.0	1827.5	1783.2	1745.7	1699.9	1649.4	1611.2	1578.4	1574.5
17.5°	2003.3	1983.5	1943.7	1896.3	1859.6	1822.2	1762.6	1699.1	1644.1	1602.8	1596.7
20°	2053.8	2037.7	1992.6	1957.5	1936.1	1903.2	1833.6	1761.8	1699.9	1647.9	1644.9
22.5°	2100.4	2081.3	2037.0	2016.3	2016.3	1994.2	1927.7	1842.8	1770.2	1709.8	1702.2
25°	2153.1	2132.5	2098.9	2096.6	2107.3	2097.3	2017.1	1926.1	1841.3	1773.3	1761.0
27.5°	2226.5	2203.6	2183.7	2197.5	2212.8	2202.1	2112.6	2007.1	1917.7	1848.9	1838.2
30°	2343.5	2315.2	2296.8	2313.6	2343.5	2312.1	2215.0	2103.5	2013.3	1937.6	1932.2
32.5°	2479.5	2447.4	2428.3	2455.0	2481.8	2432.9	2336.6	2229.6	2134.8	2055.3	2046.1
35°	2643.1	2602.6	2574.3	2610.2	2637.7	2589.6	2494.0	2392.4	2286.9	2204.3	2192.1
37.5°	2788.3	2739.4	2720.3	2770.7	2807.4	2776.1	2672.1	2576.6	2461.2	2371.0	2365.6
40°	2893.8	2845.6	2831.9	2915.2	2979.4	2971.7	2878.5	2769.2	2660.7	2556.7	2546.8
42.5°	2939.6	2906.0	2909.1	3021.4	3120.8	3169.7	3086.4	2969.4	2864.7	2757.0	2750.1
45°	2949.6	2928.9	2953.4	3094.0	3224.7	3324.9	3253.8	3155.9	3037.5	2933.5	2930.5
47.5°	2960.3	2948.8	2986.3	3135.3	3290.5	3406.6	3366.9	3266.0	3146.0	3044.3	3036.7
50°	2985.5	2980.9	3022.9	3164.3	3321.8	3428.8	3383.7	3283.6	3160.5	3060.4	3042.1
52.5°	2993.1	2985.5	3045.9	3209.4	3373.8	3428.0	3331.0	3200.3	3076.5	2964.9	2945.7
55°	3016.8	3003.1	3044.3	3226.3	3445.6	3472.4	3327.9	3132.2	2959.5	2807.4	2762.3
57.5°	3022.9	3007.7	3034.4	3198.7	3367.7	3344.0	2925.1	2527.7	2202.1	2033.1	2052.2
60°	2990.1	2994.7	2948.8	2930.5	2701.2	2384.7	1790.8	1431.6	1124.3	994.4	1022.7
62.5°	2276.2	2295.3	2138.6	1859.6	1430.1	1133.5	749.8	582.4	493.0	470.1	473.9
65°	1148.8	1174.8	1012.0	836.9	622.2	502.9	434.9	421.1	416.6	411.2	411.2
67.5°	454.8	462.4	456.3	427.3	397.5	386.8	383.7	382.2	376.8	373.8	374.5
70°	365.4	371.5	362.3	344.0	331.7	331.0	329.4	326.4	322.5	322.5	324.8
72.5°	298.1	304.2	291.2	279.7	270.6	263.7	259.9	257.6	252.2	252.2	254.5
75°	219.4	223.2	212.5	211.0	201.0	194.1	188.0	185.0	178.1	175.0	177.3
77.5°	146.0	145.2	139.9	139.9	136.1	127.6	120.8	113.9	104.7	98.6	100.1
80°	94.8	94.8	92.5	92.5	88.7	81.8	73.4	66.5	61.1	56.6	56.6
82.5°	60.4	59.6	58.9	58.1	56.6	49.7	43.6	39.0	35.2	32.1	32.9
85°	33.6	33.6	32.1	32.1	29.0	25.2	22.2	19.1	16.8	16.1	16.1
87.5°	11.5	11.5	10.7	10.7	9.2	6.9	5.4	4.6	3.8	3.1	3.8
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)