

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: P631351

Luminaire Tested: GWS-SA1F-740-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631351
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-740-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7386.4 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

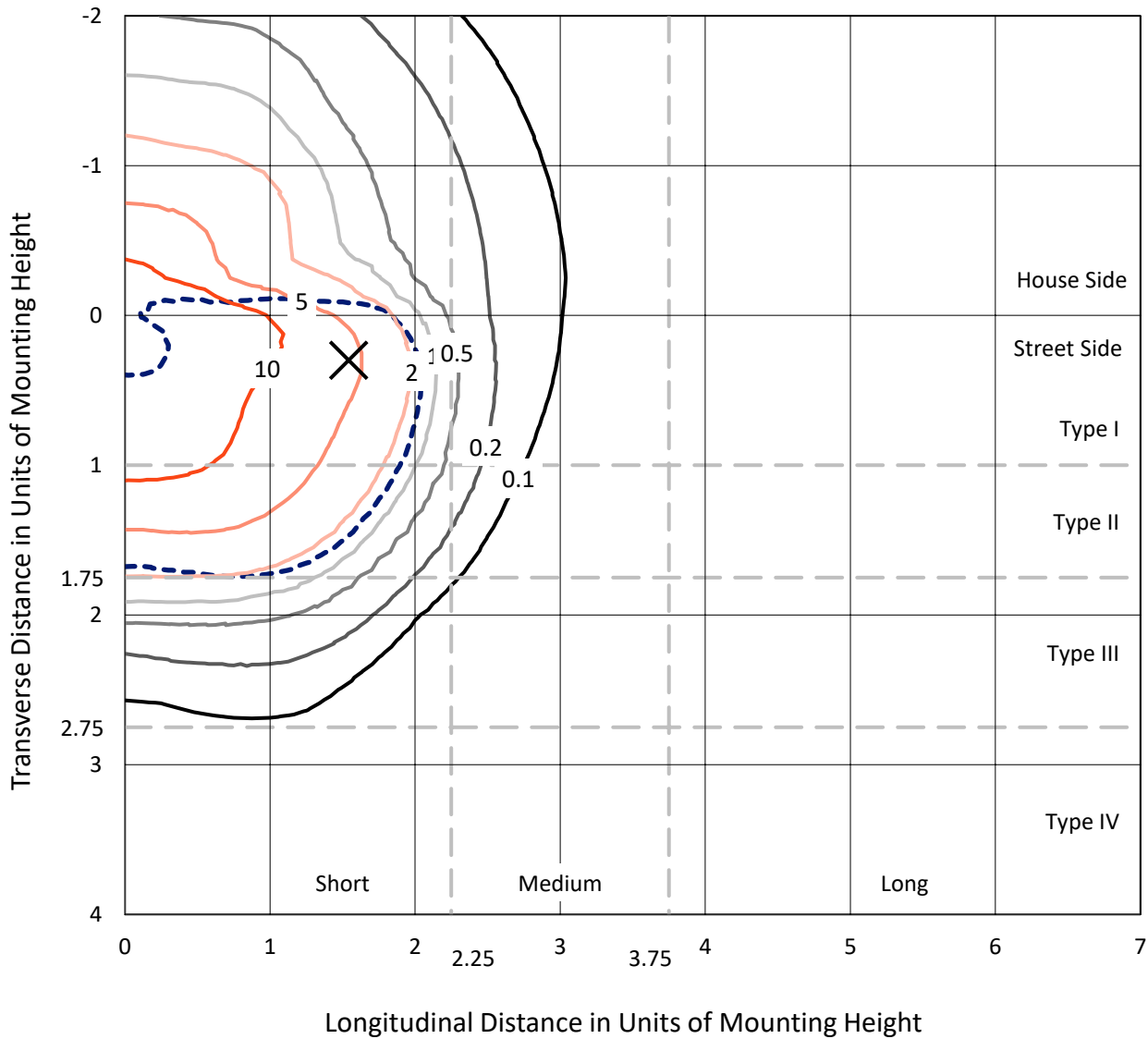
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

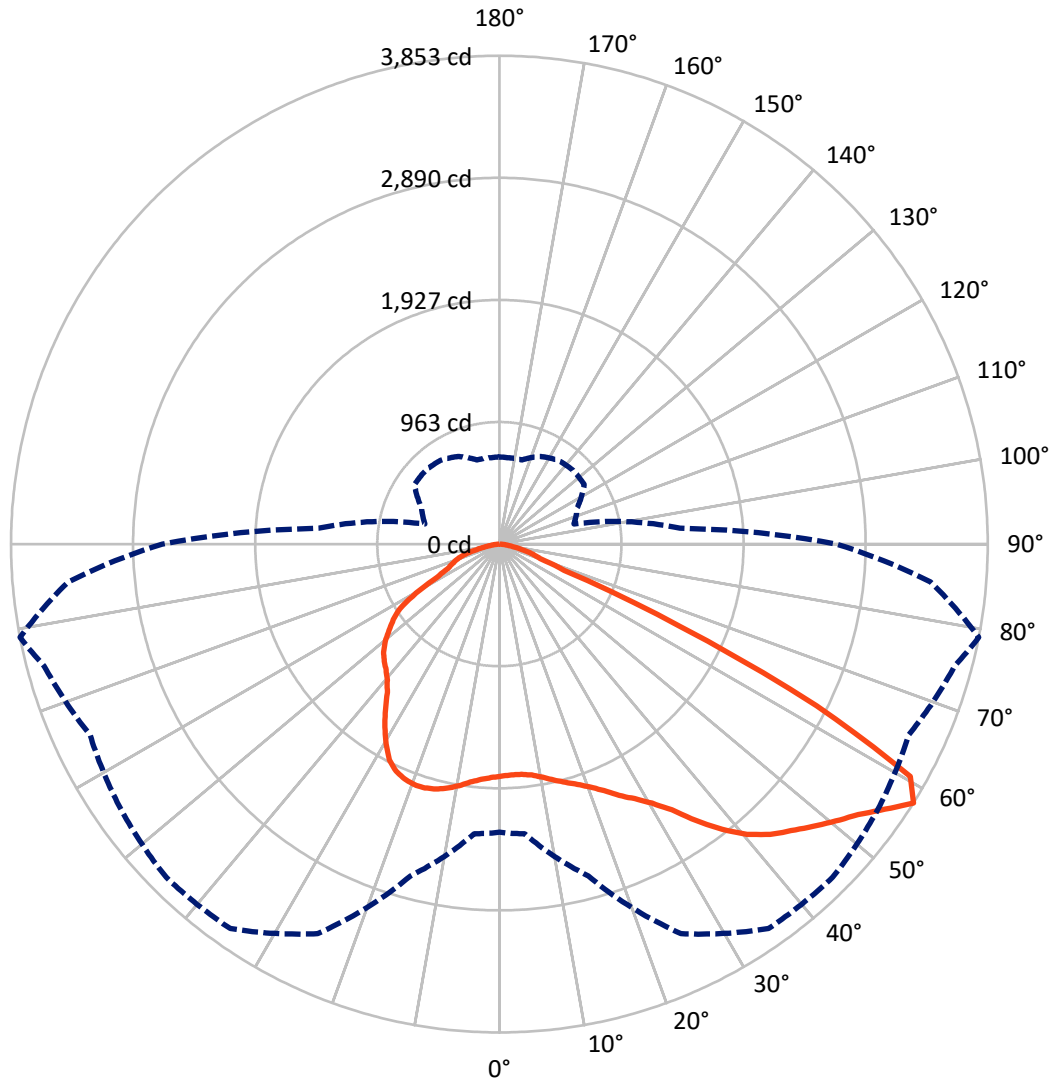
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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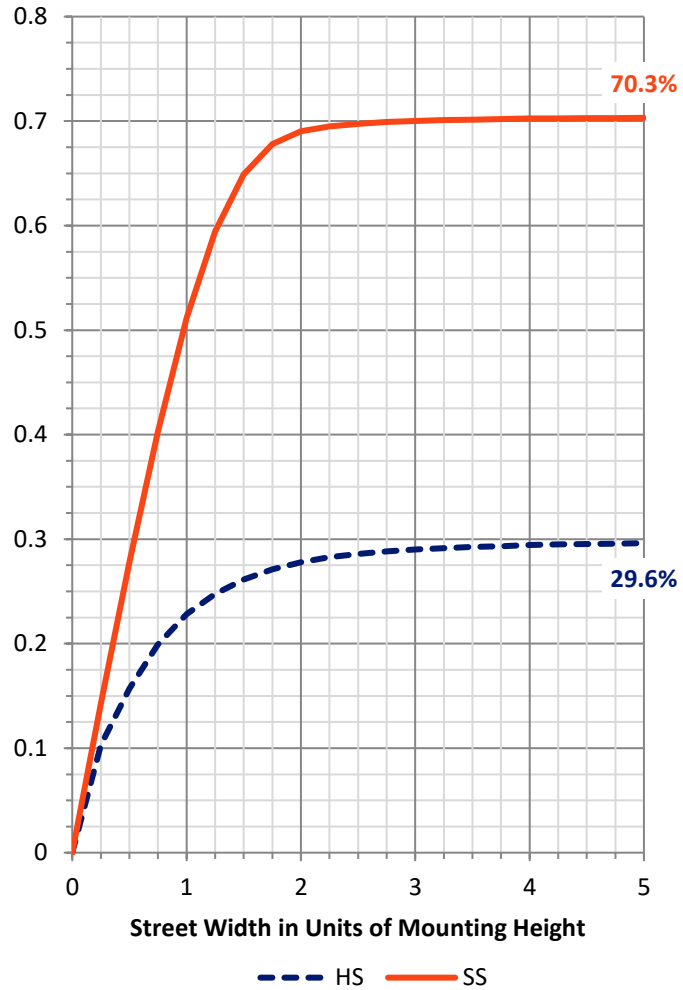
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2195.6	0.0	2195.6
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	5190.8	0.0	5190.8
	% Fixture	70.3	0.0	70.3
Total	Lumens	7386.4	0.0	7386.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.5	2.3
10°-20°	471.1	6.4
20°-30°	798.5	10.8
30°-40°	1222.3	16.5
40°-50°	1629.8	22.1
50°-60°	1882.3	25.5
60°-70°	978.1	13.2
70°-80°	207.9	2.8
80°-90°	26.9	0.4
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°	7386.4	100.0
0°-180°	7386.4	100.0

Coefficient of Utilization



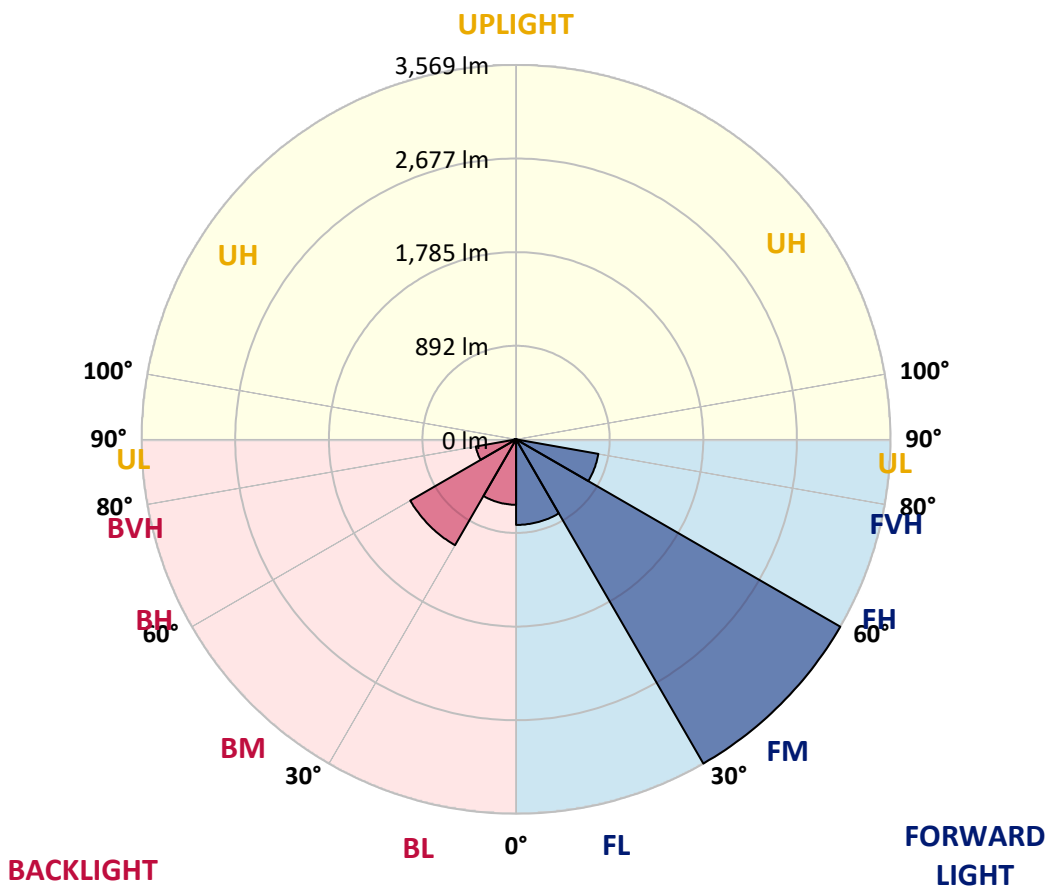
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	815.6	11.0			
FM (30°-60°)	3569.3	48.3			
FH (60°-80°)	796.4	10.8			G1/1800
FVH (80°-90°)	9.4	0.1			G0/10
BL (0°-30°)	623.5	8.4	B2/1000		
BM (30°-60°)	1165.0	15.8	B2/2500		
BH (60°-80°)	389.6	5.3	B1/500		G1/500
BVH (80°-90°)	17.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1830.5	1830.5	1830.5	1830.5	1830.5	1830.5	1830.5	1830.5	1830.5	1830.5	1830.5
2.5°	1747.2	1743.6	1744.8	1749.6	1767.7	1781.0	1794.9	1807.6	1819.6	1823.3	1826.3
5°	1685.0	1678.3	1680.1	1688.0	1709.1	1731.5	1756.2	1786.4	1815.4	1825.1	1837.8
7.5°	1640.9	1639.7	1642.7	1654.8	1677.1	1698.3	1730.3	1773.1	1823.3	1839.6	1861.9
10°	1582.3	1579.9	1592.0	1616.7	1653.6	1687.4	1725.4	1776.2	1846.2	1870.4	1904.8
12.5°	1535.8	1534.6	1547.3	1581.7	1628.8	1682.6	1735.1	1791.9	1877.0	1910.2	1952.5
15°	1563.0	1557.5	1558.1	1582.3	1624.6	1688.0	1759.3	1820.3	1907.8	1950.1	2004.5
17.5°	1642.1	1632.4	1625.2	1629.4	1653.6	1719.4	1796.1	1858.3	1943.5	1993.0	2059.4
20°	1751.4	1746.0	1726.0	1712.8	1718.2	1776.2	1854.1	1912.1	1990.0	2045.5	2116.8
22.5°	1898.2	1884.9	1857.7	1836.6	1820.3	1865.5	1937.4	1987.5	2054.6	2112.6	2186.8
25°	2079.9	2060.6	2017.7	1984.5	1949.5	1996.0	2060.0	2098.1	2143.4	2197.1	2267.8
27.5°	2265.4	2249.0	2201.3	2156.6	2113.2	2142.2	2218.2	2240.0	2235.2	2274.4	2334.8
30°	2462.8	2442.3	2397.0	2348.7	2292.5	2311.3	2379.5	2390.4	2339.0	2371.6	2412.7
32.5°	2671.2	2651.3	2612.0	2555.8	2492.4	2499.7	2518.4	2528.7	2479.7	2498.5	2529.9
35°	2883.2	2864.5	2824.6	2769.0	2722.5	2678.4	2631.3	2672.4	2644.0	2680.3	2677.8
37.5°	3077.0	3058.3	3033.6	2990.7	2911.0	2824.0	2715.3	2766.0	2810.1	2856.0	2848.1
40°	3208.1	3195.4	3201.4	3194.8	3092.1	2920.0	2756.3	2811.9	2932.1	3010.6	3006.4
42.5°	3321.0	3308.3	3343.4	3368.7	3248.0	3008.8	2776.3	2829.4	3010.0	3132.6	3126.6
45°	3371.2	3367.5	3425.5	3505.8	3390.5	3103.0	2827.6	2865.7	3069.2	3226.2	3203.3
47.5°	3311.4	3324.0	3438.2	3574.1	3508.9	3214.7	2932.7	2942.4	3146.5	3327.7	3263.0
50°	3192.4	3220.2	3374.2	3575.9	3595.2	3341.0	3078.2	3054.1	3250.4	3435.8	3294.5
52.5°	3019.1	3048.0	3299.3	3562.0	3644.7	3487.1	3272.1	3237.7	3381.4	3543.9	3299.9
55°	2621.1	2660.3	3127.8	3530.6	3693.0	3620.0	3490.7	3420.7	3550.5	3692.4	3353.6
57.5°	2273.8	2294.3	2709.8	3391.1	3702.7	3717.8	3646.5	3563.2	3718.4	3853.1	3414.0
60°	1668.7	1673.5	2047.3	2805.9	3406.2	3661.0	3633.9	3510.1	3638.7	3724.5	3137.4
62.5°	942.7	943.3	1241.7	1872.8	2544.4	2984.0	3000.9	2891.6	2783.5	2808.9	2183.8
65°	353.9	387.1	567.1	920.4	1467.0	1761.7	1831.7	1857.1	1677.1	1565.4	1171.0
67.5°	236.7	244.6	331.0	473.5	652.9	753.7	843.1	845.5	618.4	551.4	461.4
70°	180.6	188.4	260.3	338.8	331.0	305.6	330.4	321.3	332.2	341.2	350.9
72.5°	134.7	142.5	201.7	239.2	198.7	195.7	221.6	246.4	269.4	279.0	294.1
75°	89.4	95.4	135.9	128.0	109.9	129.8	161.9	186.6	199.9	211.4	222.9
77.5°	56.8	61.0	72.5	58.6	61.0	76.1	94.2	116.6	129.2	140.7	146.8
80°	26.0	25.4	24.8	27.8	34.4	44.7	56.8	70.1	79.7	84.6	88.2
82.5°	10.3	11.5	12.7	15.1	18.7	24.2	32.0	41.1	48.9	50.1	53.1
85°	4.2	4.8	5.4	6.6	8.5	10.9	13.3	18.7	23.6	25.4	27.2
87.5°	0.0	0.0	0.0	0.0	0.6	1.2	1.8	3.0	5.4	6.0	6.6
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°	1830.5	1830.5	1830.5	1830.5	1830.5	1830.5	1830.5	1830.5	1830.5	1830.5	1830.5
2.5°	1842.6	1834.7	1848.0	1857.1	1865.5	1856.5	1853.5	1845.6	1844.4	1844.4	1848.6
5°	1859.5	1854.1	1868.0	1873.4	1872.8	1852.9	1840.8	1825.1	1817.2	1817.2	1818.4
7.5°	1889.7	1886.7	1894.5	1886.1	1866.8	1826.3	1786.4	1753.2	1730.9	1719.4	1723.0
10°	1939.8	1936.2	1929.6	1898.2	1842.6	1758.7	1677.1	1616.7	1580.5	1560.0	1561.2
12.5°	1988.8	1982.7	1959.2	1889.7	1775.6	1642.1	1535.2	1467.6	1427.7	1403.5	1398.1
15°	2042.5	2026.8	1976.1	1846.2	1666.3	1499.6	1387.8	1314.8	1271.9	1257.4	1256.8
17.5°	2093.8	2066.1	1974.3	1768.9	1535.2	1350.4	1238.1	1192.8	1185.5	1192.2	1194.0
20°	2145.8	2101.1	1954.3	1662.0	1379.4	1201.8	1143.8	1162.6	1189.7	1207.9	1212.1
22.5°	2199.5	2130.1	1909.0	1524.3	1215.1	1101.6	1125.7	1166.8	1200.6	1224.8	1227.2
25°	2259.9	2157.2	1841.4	1355.8	1083.5	1073.8	1121.5	1165.0	1201.2	1229.0	1233.8
27.5°	2294.3	2157.9	1746.6	1182.5	1023.1	1062.9	1111.2	1152.3	1188.5	1218.7	1224.2
30°	2328.2	2141.5	1596.2	1041.8	1005.5	1050.2	1093.7	1131.8	1166.2	1195.8	1202.4
32.5°	2375.9	2126.4	1422.9	960.9	995.3	1038.2	1073.8	1107.6	1134.2	1147.5	1151.1
35°	2435.1	2107.1	1238.7	925.8	988.6	1028.5	1059.9	1078.0	1043.6	1036.3	1044.2
37.5°	2517.8	2089.0	1055.1	910.7	984.4	1024.9	1052.7	1006.2	963.9	947.0	953.0
40°	2607.2	2078.7	930.7	898.7	986.2	1028.5	1022.5	953.6	892.6	857.0	855.8
42.5°	2683.3	2063.0	850.9	890.8	991.1	1042.4	981.4	907.1	816.5	795.4	796.0
45°	2734.6	2023.2	808.7	882.3	995.3	1045.4	962.1	843.1	778.5	765.2	764.6
47.5°	2755.7	1950.7	781.5	869.1	994.7	1020.6	922.8	816.5	751.9	748.3	750.7
50°	2741.9	1831.7	753.7	843.1	980.2	994.7	877.5	793.0	733.8	753.7	768.2
52.5°	2690.5	1677.7	720.5	807.5	954.2	965.1	854.6	778.5	720.5	747.1	758.5
55°	2677.2	1552.7	678.2	761.0	915.6	912.5	830.4	771.2	711.4	701.2	703.0
57.5°	2659.7	1430.7	608.2	677.6	817.7	822.6	807.5	762.8	687.9	684.9	687.9
60°	2310.6	1096.7	542.3	584.6	671.6	697.5	781.5	747.1	649.8	637.1	636.5
62.5°	1509.2	664.3	482.5	509.7	547.2	577.4	712.6	701.8	608.2	600.3	605.7
65°	811.7	473.5	439.1	455.4	475.9	498.8	590.6	625.1	549.6	521.8	522.4
67.5°	414.9	402.8	406.4	417.9	433.6	445.1	476.5	506.7	468.7	445.1	444.5
70°	355.1	364.8	370.2	376.9	387.1	385.3	388.3	393.8	390.7	379.3	378.7
72.5°	302.6	317.7	318.9	320.1	323.7	315.3	309.8	300.8	301.4	303.2	303.8
75°	230.1	244.6	248.2	246.4	250.0	239.2	231.9	222.9	212.0	210.2	211.4
77.5°	149.8	161.3	166.7	165.5	167.3	158.8	155.2	145.5	132.9	128.0	128.0
80°	90.6	97.2	101.5	102.7	104.5	98.4	92.4	83.9	78.5	73.1	73.1
82.5°	55.0	59.2	62.2	62.2	64.0	57.4	52.5	46.5	44.1	39.3	39.3
85°	27.8	30.8	32.0	31.4	30.2	24.8	22.9	19.9	18.7	16.3	16.3
87.5°	6.6	8.5	8.5	6.0	6.0	3.0	1.8	0.6	0.0	0.0	0.0
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)