

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: P631296

Luminaire Tested: GWS-SA1F-735-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631296
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7285.2 lumens
Efficiency: N/A
Efficacy: 108.4 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

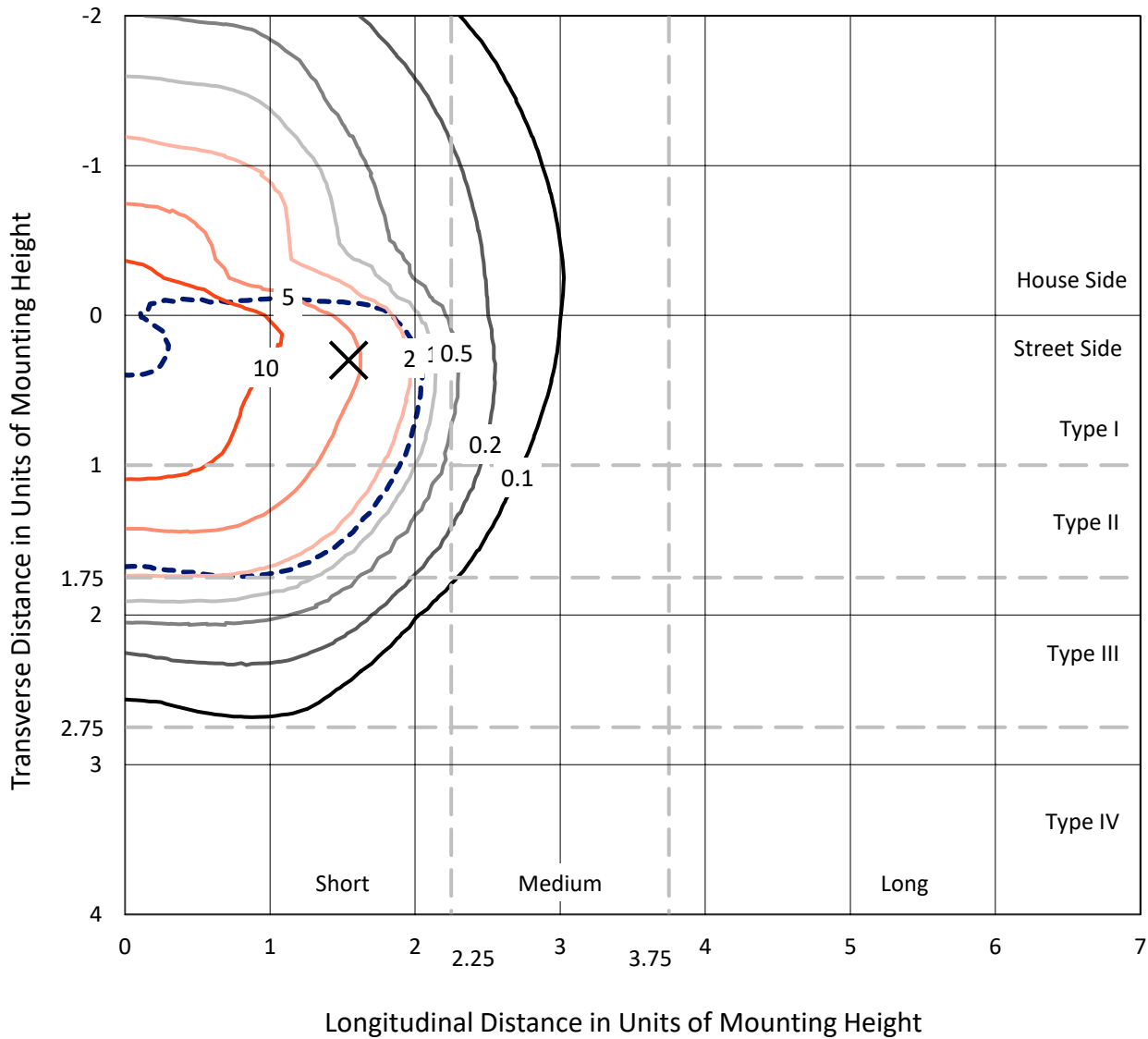
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

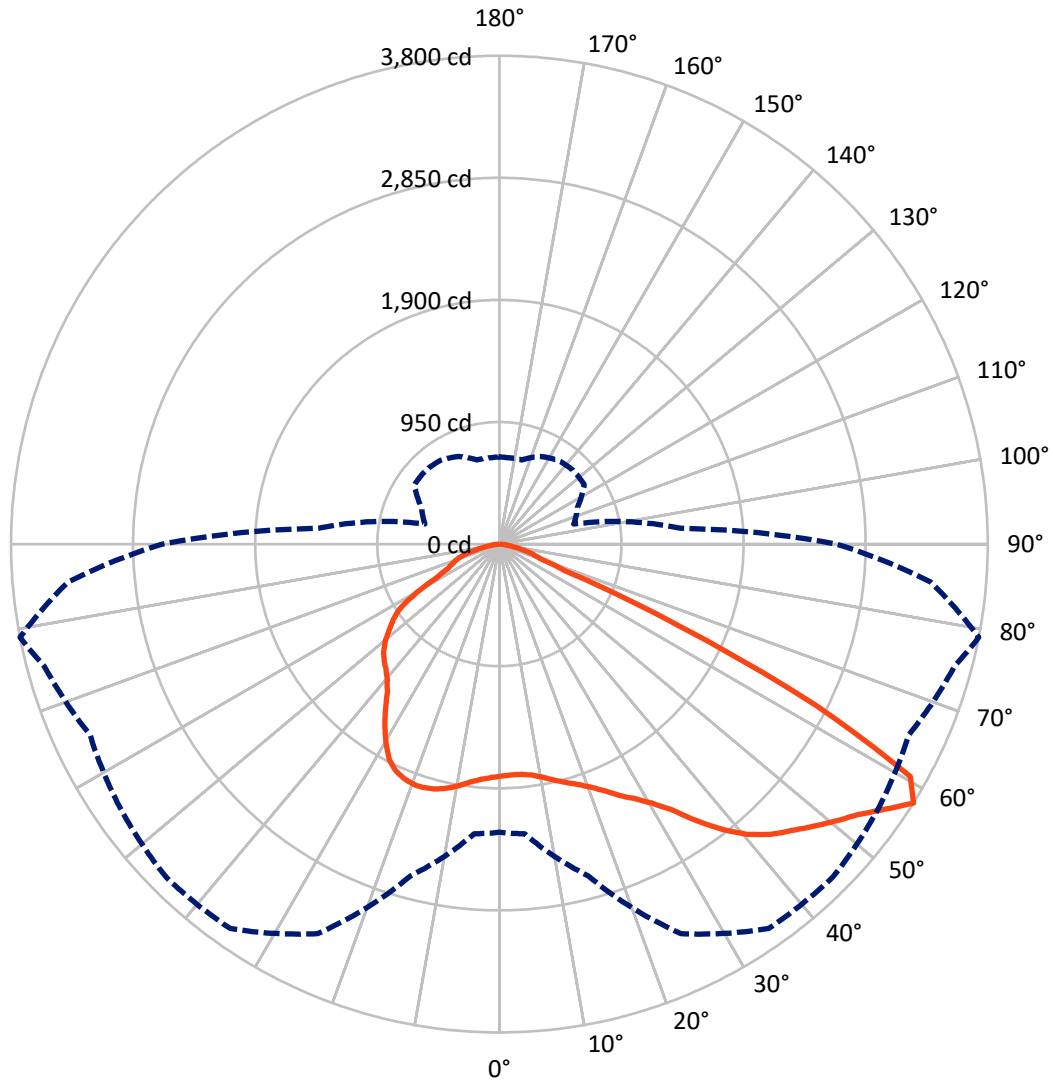
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.2 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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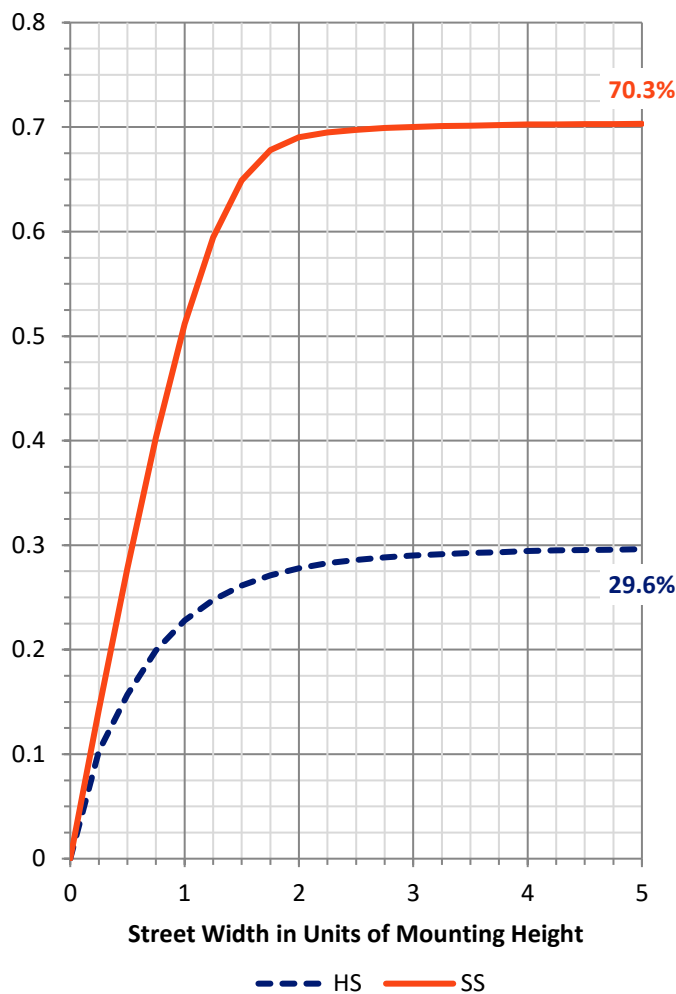
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2165.6	0.0	2165.6
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	5119.7	0.0	5119.7
	% Fixture	70.3	0.0	70.3
Total	Lumens	7285.2	0.0	7285.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.2	2.3
10°-20°	464.6	6.4
20°-30°	787.6	10.8
30°-40°	1205.5	16.5
40°-50°	1607.4	22.1
50°-60°	1856.5	25.5
60°-70°	964.7	13.2
70°-80°	205.1	2.8
80°-90°	26.6	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°	7285.2	100.0
0°-180°	7285.2	100.0

Coefficient of Utilization



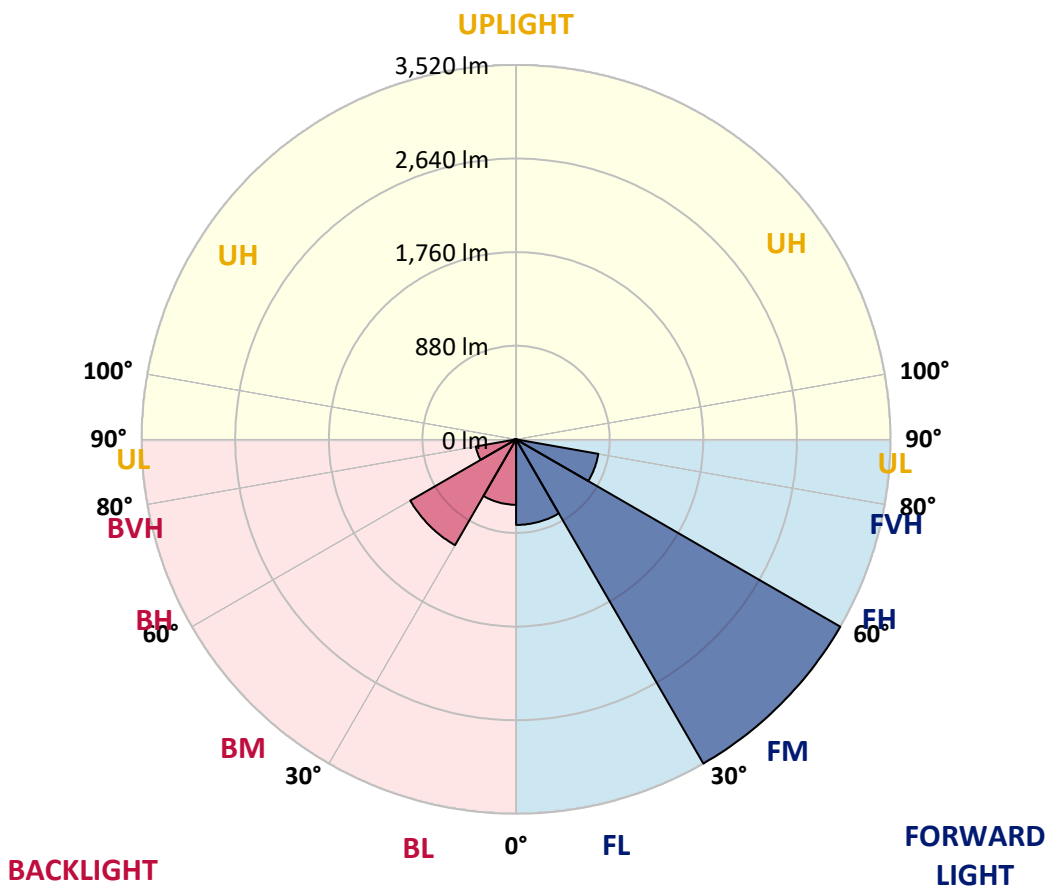
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	804.5	11.0			
FM (30°-60°)	3520.4	48.3			
FH (60°-80°)	785.5	10.8			G1/1800
FVH (80°-90°)	9.3	0.1			G0/10
BL (0°-30°)	615.0	8.4	B2/1000		
BM (30°-60°)	1149.0	15.8	B2/2500		
BH (60°-80°)	384.2	5.3	B1/500		G1/500
BVH (80°-90°)	17.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1805.4	1805.4	1805.4	1805.4	1805.4	1805.4	1805.4	1805.4	1805.4	1805.4	1805.4
2.5°	1723.2	1719.7	1720.9	1725.6	1743.5	1756.6	1770.3	1782.8	1794.7	1798.3	1801.3
5°	1661.9	1655.3	1657.1	1664.9	1685.7	1707.8	1732.2	1762.0	1790.5	1800.1	1812.6
7.5°	1618.4	1617.2	1620.2	1632.1	1654.1	1675.0	1706.6	1748.9	1798.3	1814.4	1836.4
10°	1560.6	1558.2	1570.2	1594.6	1630.9	1664.3	1701.8	1751.8	1820.9	1844.8	1878.7
12.5°	1514.8	1513.6	1526.1	1560.0	1606.5	1659.5	1711.3	1767.3	1851.3	1884.1	1925.8
15°	1541.6	1536.2	1536.8	1560.6	1602.3	1664.9	1735.2	1795.3	1881.7	1923.4	1977.0
17.5°	1619.6	1610.1	1602.9	1607.1	1630.9	1695.8	1771.5	1832.8	1916.8	1965.7	2031.2
20°	1727.4	1722.0	1702.4	1689.3	1694.6	1751.8	1828.7	1885.9	1962.7	2017.5	2087.8
22.5°	1872.2	1859.1	1832.2	1811.4	1795.3	1840.0	1910.9	1960.3	2026.4	2083.6	2156.9
25°	2051.4	2032.4	1990.1	1957.3	1922.8	1968.7	2031.8	2069.3	2114.0	2167.0	2236.7
27.5°	2234.3	2218.2	2171.2	2127.1	2084.2	2112.8	2187.9	2209.3	2204.5	2243.3	2302.8
30°	2429.1	2408.8	2364.2	2316.5	2261.1	2279.6	2346.9	2357.6	2307.0	2339.2	2379.7
32.5°	2634.6	2614.9	2576.2	2520.8	2458.3	2465.4	2483.9	2494.0	2445.8	2464.2	2495.2
35°	2843.7	2825.2	2785.9	2731.1	2685.2	2641.7	2595.3	2635.8	2607.8	2643.5	2641.1
37.5°	3034.9	3016.4	2992.0	2949.7	2871.1	2785.3	2678.1	2728.1	2771.6	2816.9	2809.1
40°	3164.1	3151.6	3157.6	3151.0	3049.8	2880.0	2718.6	2773.4	2891.9	2969.4	2965.2
42.5°	3275.5	3263.0	3297.6	3322.6	3203.5	2967.6	2738.2	2790.7	2968.8	3089.7	3083.7
45°	3325.0	3321.4	3378.6	3457.8	3344.0	3060.5	2788.9	2826.4	3027.1	3182.0	3159.4
47.5°	3266.0	3278.5	3391.1	3525.1	3460.8	3170.7	2892.5	2902.0	3103.4	3282.1	3218.3
50°	3148.7	3176.1	3327.9	3526.9	3546.0	3295.2	3036.1	3012.2	3205.8	3388.7	3249.3
52.5°	2977.7	3006.3	3254.1	3513.2	3594.8	3439.3	3227.3	3193.3	3335.1	3495.3	3254.7
55°	2585.2	2623.9	3084.9	3482.2	3642.5	3570.4	3442.9	3373.8	3501.9	3641.9	3307.7
57.5°	2242.7	2262.9	2672.7	3344.6	3652.0	3666.9	3596.6	3514.4	3667.5	3800.3	3367.3
60°	1645.8	1650.6	2019.3	2767.4	3359.5	3610.9	3584.1	3462.0	3588.8	3673.4	3094.4
62.5°	929.8	930.4	1224.7	1847.1	2509.5	2943.1	2959.8	2852.0	2745.4	2770.4	2153.9
65°	349.1	381.8	559.3	907.8	1446.9	1737.5	1806.6	1831.6	1654.1	1543.9	1155.0
67.5°	233.5	241.2	326.4	467.0	643.9	743.4	831.5	833.9	610.0	543.8	455.1
70°	178.1	185.8	256.7	334.2	326.4	301.4	325.8	316.9	327.6	336.5	346.1
72.5°	132.8	140.6	198.9	235.9	196.0	193.0	218.6	243.0	265.7	275.2	290.1
75°	88.2	94.1	134.0	126.3	108.4	128.1	159.6	184.1	197.2	208.5	219.8
77.5°	56.0	60.2	71.5	57.8	60.2	75.1	92.9	115.0	127.5	138.8	144.7
80°	25.6	25.0	24.4	27.4	34.0	44.1	56.0	69.1	78.6	83.4	87.0
82.5°	10.1	11.3	12.5	14.9	18.5	23.8	31.6	40.5	48.2	49.4	52.4
85°	4.2	4.8	5.4	6.6	8.3	10.7	13.1	18.5	23.2	25.0	26.8
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°	1805.4	1805.4	1805.4	1805.4	1805.4	1805.4	1805.4	1805.4	1805.4	1805.4	1805.4
2.5°	1817.4	1809.6	1822.7	1831.6	1840.0	1831.1	1828.1	1820.3	1819.1	1819.1	1823.3
5°	1834.0	1828.7	1842.4	1847.7	1847.1	1827.5	1815.6	1800.1	1792.3	1792.3	1793.5
7.5°	1863.8	1860.8	1868.6	1860.2	1841.2	1801.3	1762.0	1729.2	1707.2	1695.8	1699.4
10°	1913.3	1909.7	1903.1	1872.2	1817.4	1734.6	1654.1	1594.6	1558.8	1538.6	1539.8
12.5°	1961.5	1955.5	1932.3	1863.8	1751.2	1619.6	1514.2	1447.5	1408.1	1384.3	1378.9
15°	2014.5	1999.0	1949.0	1820.9	1643.4	1479.0	1368.8	1296.7	1254.5	1240.2	1239.6
17.5°	2065.1	2037.7	1947.2	1744.7	1514.2	1331.9	1221.1	1176.4	1169.3	1175.8	1177.6
20°	2116.4	2072.3	1927.6	1639.3	1360.5	1185.4	1128.2	1146.6	1173.4	1191.3	1195.5
22.5°	2169.4	2100.9	1882.9	1503.4	1198.5	1086.5	1110.3	1150.8	1184.2	1208.0	1210.4
25°	2229.0	2127.7	1816.2	1337.3	1068.6	1059.1	1106.1	1149.0	1184.8	1212.2	1216.9
27.5°	2262.9	2128.3	1722.6	1166.3	1009.0	1048.4	1096.0	1136.5	1172.3	1202.0	1207.4
30°	2296.3	2112.2	1574.3	1027.5	991.8	1035.9	1078.7	1116.3	1150.2	1179.4	1186.0
32.5°	2343.3	2097.3	1403.4	947.7	981.6	1023.9	1059.1	1092.4	1118.6	1131.8	1135.3
35°	2401.7	2078.3	1221.7	913.1	975.1	1014.4	1045.4	1063.3	1029.3	1022.2	1029.9
37.5°	2483.3	2060.4	1040.6	898.3	970.9	1010.8	1038.2	992.4	950.7	934.0	939.9
40°	2571.5	2050.3	917.9	886.3	972.7	1014.4	1008.4	940.5	880.4	845.2	844.0
42.5°	2646.5	2034.8	839.3	878.6	977.5	1028.1	967.9	894.7	805.3	784.5	785.1
45°	2697.1	1995.5	797.6	870.3	981.6	1031.1	948.9	831.5	767.8	754.7	754.1
47.5°	2718.0	1924.0	770.8	857.2	981.0	1006.7	910.2	805.3	741.6	738.0	740.4
50°	2704.3	1806.6	743.4	831.5	966.8	981.0	865.5	782.1	723.7	743.4	757.7
52.5°	2653.7	1654.7	710.6	796.4	941.1	951.9	842.9	767.8	710.6	736.8	748.1
55°	2640.6	1531.4	668.9	750.5	903.0	900.0	819.0	760.7	701.7	691.6	693.3
57.5°	2623.3	1411.1	599.8	668.3	806.5	811.3	796.4	752.3	678.5	675.5	678.5
60°	2279.0	1081.7	534.9	576.6	662.4	688.0	770.8	736.8	640.9	628.4	627.8
62.5°	1488.6	655.2	475.9	502.7	539.7	569.4	702.9	692.2	599.8	592.1	597.4
65°	800.6	467.0	433.0	449.1	469.4	492.0	582.6	616.5	542.0	514.6	515.2
67.5°	409.2	397.3	400.9	412.2	427.7	439.0	470.0	499.8	462.2	439.0	438.4
70°	350.2	359.8	365.1	371.7	381.8	380.0	383.0	388.4	385.4	374.1	373.5
72.5°	298.4	313.3	314.5	315.7	319.3	310.9	305.6	296.6	297.2	299.0	299.6
75°	226.9	241.2	244.8	243.0	246.6	235.9	228.7	219.8	209.1	207.3	208.5
77.5°	147.7	159.0	164.4	163.2	165.0	156.7	153.1	143.6	131.0	126.3	126.3
80°	89.3	95.9	100.1	101.3	103.0	97.1	91.1	82.8	77.4	72.1	72.1
82.5°	54.2	58.4	61.4	61.4	63.1	56.6	51.8	45.9	43.5	38.7	38.7
85°	27.4	30.4	31.6	31.0	29.8	24.4	22.6	19.7	18.5	16.1	16.1
87.5°	6.6	8.3	8.3	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)