

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: P636547

Luminaire Tested: GWS-SA4B-722-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636547
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-722-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10477.1 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

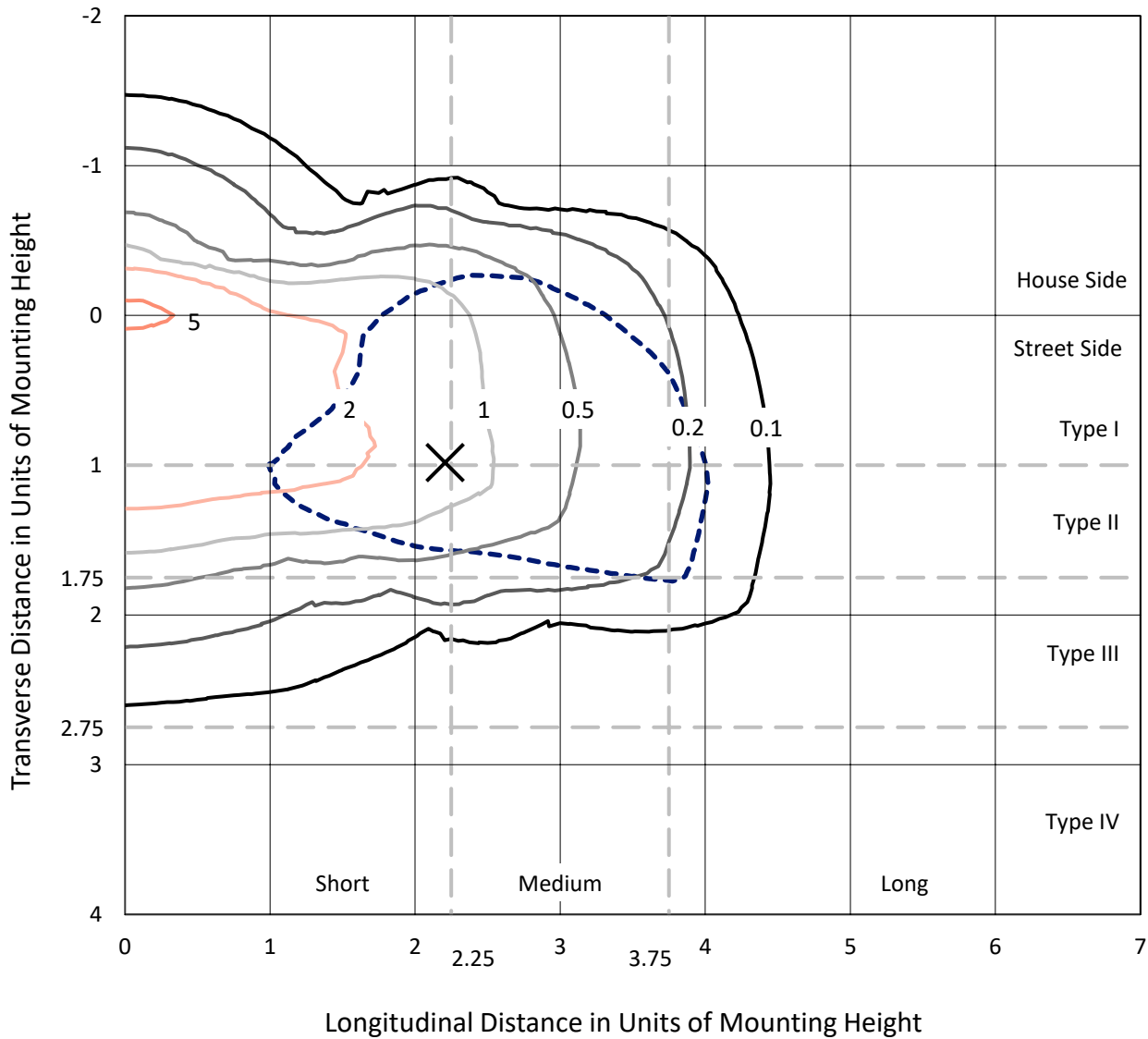
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

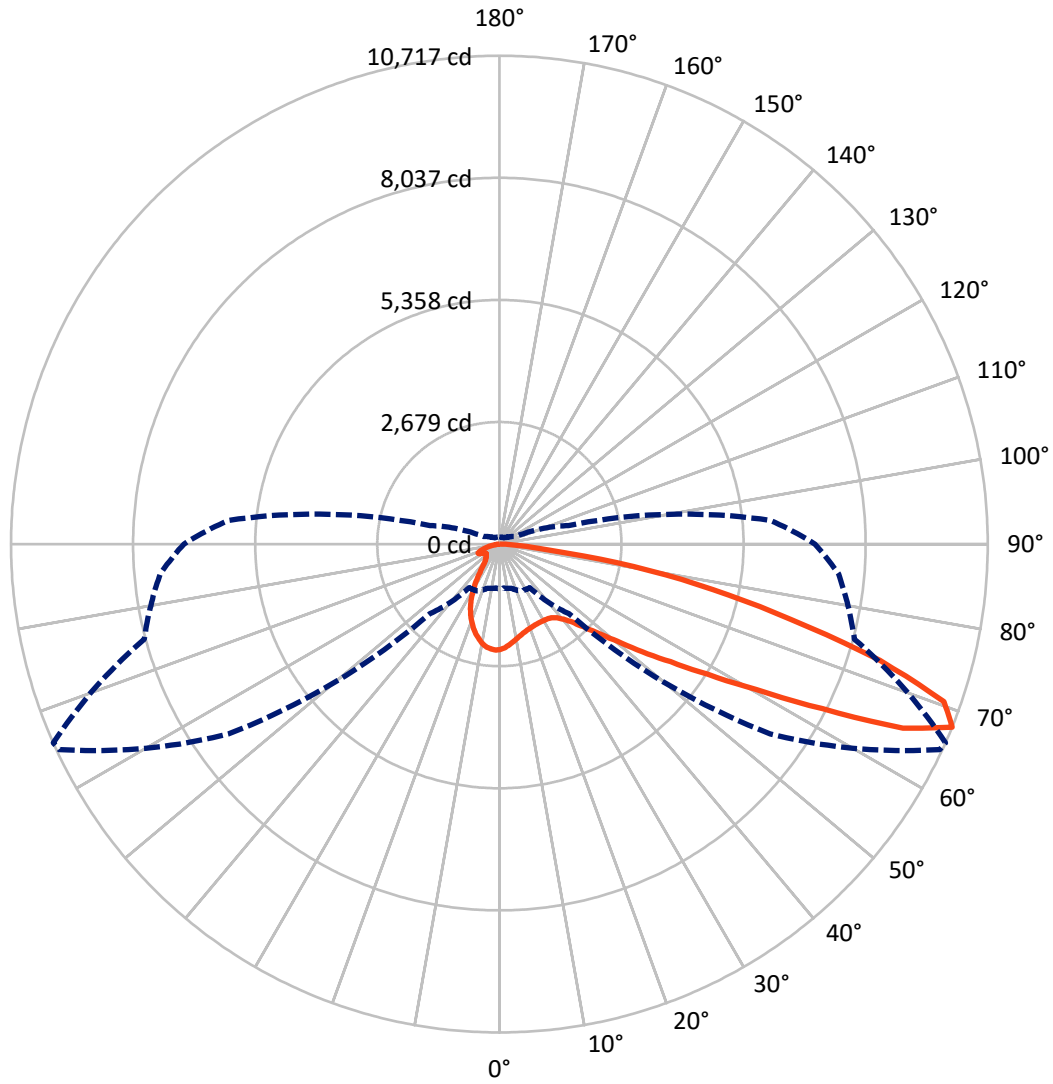
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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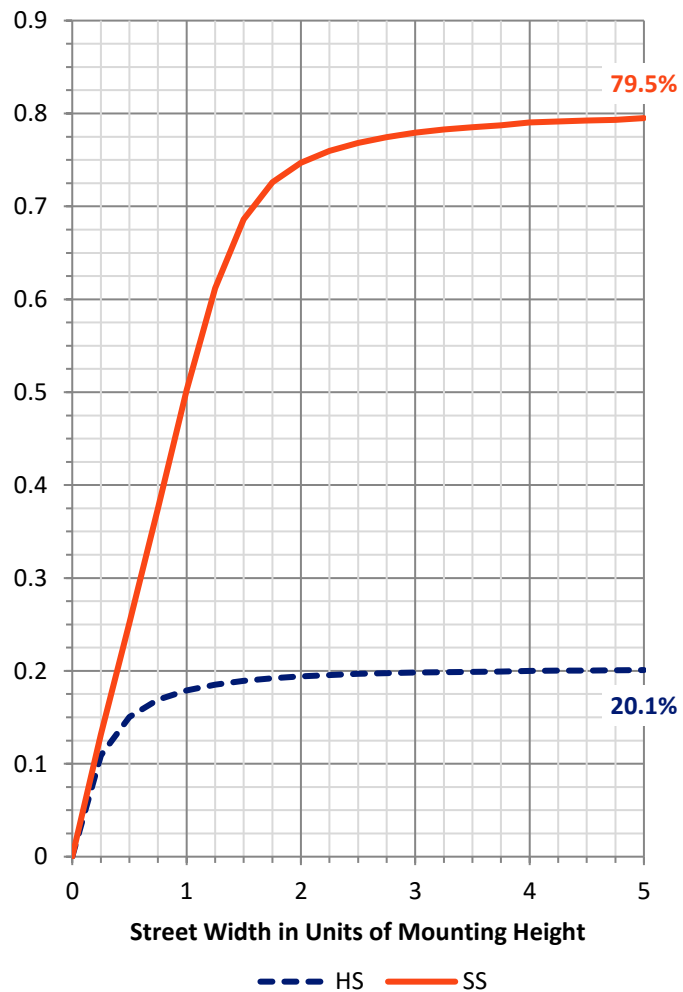
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2126.0	0.0	2126.0
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	8351.1	0.0	8351.1
	% Fixture	79.7	0.0	79.7
Total	Lumens	10477.1	0.0	10477.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.2	1.9
10°-20°	499.3	4.8
20°-30°	686.4	6.6
30°-40°	938.4	9.0
40°-50°	1421.9	13.6
50°-60°	2210.4	21.1
60°-70°	2691.1	25.7
70°-80°	1639.3	15.6
80°-90°	187.2	1.8
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°	10477.1	100.0
0°-180°	10477.1	100.0

Coefficient of Utilization



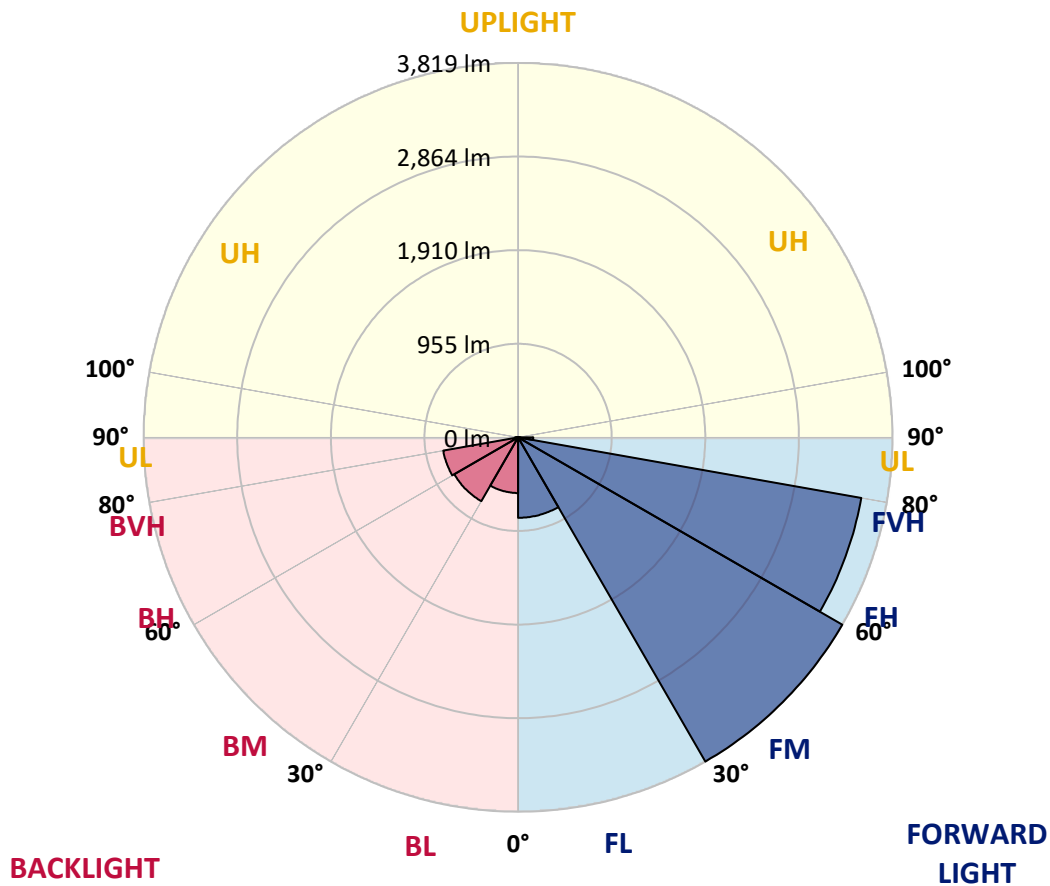
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	820.9	7.8			
FM (30°-60°)	3819.3	36.5			
FH (60°-80°)	3555.1	33.9			G2/5000
FVH (80°-90°)	155.7	1.5			G2/225
BL (0°-30°)	568.0	5.4	B2/1000		
BM (30°-60°)	751.3	7.2	B1/1000		
BH (60°-80°)	775.2	7.4	B2/1000		G2/1000
BVH (80°-90°)	31.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2315.1	2315.1	2315.1	2315.1	2315.1	2315.1	2315.1	2315.1	2315.1	2315.1	2315.1
2.5°	2168.4	2176.0	2171.4	2200.5	2202.0	2238.7	2259.3	2276.9	2278.5	2301.4	2316.7
5°	2020.1	2024.7	2024.7	2052.2	2070.6	2119.5	2166.9	2217.3	2221.1	2276.2	2318.2
7.5°	1900.1	1904.7	1901.6	1938.3	1962.0	2016.3	2076.7	2153.9	2161.5	2250.2	2323.5
10°	1806.1	1804.6	1812.2	1845.8	1876.4	1941.4	2008.6	2096.5	2108.0	2220.4	2329.7
12.5°	1741.9	1743.4	1748.0	1783.2	1816.0	1880.2	1949.8	2045.3	2057.6	2186.0	2326.6
15°	1711.3	1708.3	1712.1	1744.2	1775.5	1832.1	1903.9	2002.5	2014.8	2155.4	2327.4
17.5°	1704.4	1702.2	1701.4	1724.3	1748.0	1800.8	1869.5	1969.7	1982.7	2135.5	2332.0
20°	1725.8	1722.8	1714.4	1724.3	1734.3	1778.6	1845.1	1946.0	1960.5	2122.5	2341.1
22.5°	1784.7	1779.3	1766.4	1754.1	1741.1	1767.9	1829.8	1928.4	1942.9	2114.1	2350.3
25°	1874.1	1869.5	1855.8	1828.3	1780.9	1776.3	1826.7	1920.7	1935.3	2108.0	2354.1
27.5°	1997.2	1990.3	1976.5	1936.8	1859.6	1807.6	1838.2	1920.0	1933.7	2101.1	2350.3
30°	2143.2	2138.6	2130.9	2082.8	1979.6	1874.1	1864.2	1926.1	1936.8	2097.3	2342.7
32.5°	2291.4	2286.9	2293.0	2270.0	2143.2	1984.2	1920.7	1942.9	1950.6	2096.5	2335.8
35°	2422.1	2427.5	2471.8	2475.6	2351.1	2133.2	2010.2	1981.9	1983.4	2111.8	2338.8
37.5°	2559.0	2579.6	2637.7	2687.4	2583.4	2330.4	2143.2	2055.3	2053.7	2150.8	2357.9
40°	2740.1	2749.3	2823.4	2916.7	2851.7	2601.0	2332.0	2175.3	2164.6	2230.3	2409.2
42.5°	2916.7	2938.8	3057.3	3164.3	3142.9	2906.0	2569.7	2354.9	2335.8	2370.9	2514.6
45°	3141.4	3162.8	3295.8	3433.3	3472.3	3250.7	2873.9	2610.2	2591.1	2582.7	2708.0
47.5°	3366.1	3388.3	3507.5	3706.2	3843.0	3681.8	3269.8	2947.2	2915.9	2883.0	3000.0
50°	3517.4	3543.4	3657.3	3895.8	4216.8	4219.8	3739.1	3389.0	3349.3	3297.3	3411.2
52.5°	3512.1	3528.9	3637.4	3912.6	4485.8	4838.2	4367.4	3951.6	3919.5	3806.3	3905.7
55°	3236.2	3261.4	3370.7	3714.6	4514.9	5424.4	5290.7	4615.0	4557.7	4355.1	4464.4
57.5°	2682.0	2703.4	2813.5	3237.7	4257.3	5724.8	6463.1	5460.3	5381.6	4952.8	5078.9
60°	2024.7	1998.7	2050.7	2422.1	3641.2	5732.4	7498.0	6606.8	6475.4	5591.8	5697.3
62.5°	1519.5	1493.5	1505.0	1609.7	2468.8	5269.3	8088.1	8175.2	7958.2	6313.3	6292.7
65°	1200.8	1186.2	1219.1	1290.9	1439.2	4012.7	8092.7	9871.3	9734.4	7149.5	6903.4
67.5°	978.3	969.2	1002.8	1135.8	1167.1	2156.2	7256.5	10663.1	10716.6	8065.2	7469.8
70°	788.0	774.3	827.0	1002.0	1085.3	1304.7	5198.2	10259.5	10345.9	8610.9	7310.0
72.5°	544.2	545.0	571.7	811.7	1047.9	1126.6	2940.4	8542.9	8730.1	8116.4	6426.4
75°	366.9	369.9	377.6	535.8	965.3	1093.0	1566.9	6467.7	6599.9	6708.5	5312.1
77.5°	221.7	223.2	240.8	324.1	665.7	1020.4	1061.6	4688.4	4792.3	4422.4	3292.7
80°	128.4	133.8	149.8	217.1	449.4	766.6	821.6	2874.6	2992.3	1965.8	1046.4
82.5°	56.6	60.4	81.8	126.1	262.2	652.0	641.3	1135.8	1119.0	548.0	363.1
85°	9.9	12.2	17.6	39.7	96.3	343.9	497.6	501.4	471.6	207.9	150.6
87.5°	0.0	0.0	0.0	0.0	0.0	2.3	74.9	134.5	133.8	58.9	52.0
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°	2315.1	2315.1	2315.1	2315.1	2315.1	2315.1	2315.1	2315.1	2315.1	2315.1	2315.1
2.5°	2326.6	2306.0	2324.3	2326.6	2322.8	2319.7	2296.8	2276.9	2274.6	2253.2	2253.2
5°	2335.0	2315.9	2325.1	2307.5	2280.0	2251.7	2202.8	2169.2	2153.9	2126.4	2126.4
7.5°	2346.5	2326.6	2315.9	2272.3	2208.1	2146.2	2067.5	2001.8	1975.0	1936.0	1934.5
10°	2357.2	2332.0	2295.3	2210.4	2108.0	2009.4	1894.8	1801.5	1738.1	1691.5	1691.5
12.5°	2356.4	2323.5	2250.9	2125.6	1984.2	1841.3	1688.4	1547.8	1463.7	1391.1	1386.5
15°	2354.9	2309.8	2194.4	2027.0	1839.7	1641.8	1433.9	1250.4	1125.9	1054.8	1048.7
17.5°	2353.4	2292.2	2130.9	1914.6	1663.9	1394.1	1119.7	921.0	817.1	773.5	775.0
20°	2353.4	2272.3	2062.9	1785.5	1461.4	1097.6	821.6	677.2	651.2	653.5	655.8
22.5°	2346.5	2247.9	1987.2	1644.8	1235.9	807.1	606.1	557.2	571.0	592.4	595.4
25°	2330.4	2207.4	1899.3	1488.9	967.6	587.8	494.5	485.3	510.6	537.3	545.0
27.5°	2305.2	2160.7	1800.8	1306.2	712.4	472.4	434.9	434.1	454.0	473.9	480.8
30°	2278.5	2108.8	1696.8	1102.9	515.9	411.2	396.7	396.7	406.6	418.9	417.3
32.5°	2247.1	2056.0	1585.2	891.2	420.4	376.8	372.2	369.9	371.5	376.0	376.0
35°	2220.4	2009.4	1470.6	667.3	376.8	357.7	353.1	347.8	345.5	342.4	343.9
37.5°	2210.4	1972.7	1352.1	502.9	355.4	343.9	336.3	328.7	323.3	321.8	321.0
40°	2226.5	1957.4	1233.6	414.3	340.1	329.4	321.0	311.1	306.5	306.5	306.5
42.5°	2289.2	1968.9	1112.9	374.5	329.4	317.2	305.0	295.8	294.3	295.8	296.6
45°	2403.8	2013.2	987.5	354.6	320.3	305.0	290.4	283.6	283.6	285.1	285.1
47.5°	2608.6	2129.4	863.7	342.4	311.1	295.0	279.7	272.9	272.1	273.6	273.6
50°	2963.3	2338.8	752.1	334.0	304.2	287.4	272.1	262.9	260.6	259.9	259.9
52.5°	3410.4	2701.9	681.0	327.9	295.8	279.0	263.7	251.5	246.9	244.6	244.6
55°	3950.8	3185.7	681.0	323.3	285.1	269.0	251.5	239.2	232.4	229.3	229.3
57.5°	4563.0	3749.0	798.7	319.5	276.7	257.6	238.5	226.2	218.6	214.0	214.0
60°	5185.9	4344.4	1089.9	314.1	269.0	243.1	223.9	212.5	202.5	197.2	196.4
62.5°	5831.8	5000.2	1473.6	317.2	263.7	229.3	208.7	195.7	187.3	181.9	181.1
65°	6423.4	5624.7	1809.2	340.9	264.5	217.1	191.1	179.6	172.7	165.9	165.1
67.5°	6925.6	5969.4	1573.7	389.0	280.5	202.5	173.5	162.0	155.9	151.3	150.6
70°	6574.0	5443.5	892.7	418.9	302.7	187.3	153.6	146.0	139.9	136.8	136.0
72.5°	5621.6	4608.9	596.9	369.9	275.9	167.4	135.3	129.2	124.6	120.8	120.0
75°	4553.9	3655.0	456.3	303.4	214.8	136.0	116.2	111.6	107.0	103.2	102.4
77.5°	2694.2	2111.8	336.3	240.0	151.3	106.2	96.3	92.5	87.9	84.8	84.1
80°	859.9	733.8	213.2	165.1	100.1	81.8	74.1	71.1	66.5	62.7	61.9
82.5°	327.9	283.6	113.1	84.1	66.5	55.8	49.7	46.6	43.6	39.7	39.0
85°	145.2	136.0	62.7	45.1	35.9	27.5	24.5	22.9	19.1	16.1	15.3
87.5°	51.2	51.2	26.8	13.0	7.6	3.8	2.3	0.8	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)