

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: P636993

Luminaire Tested: GWS-SA4B-830-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636993  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-830-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

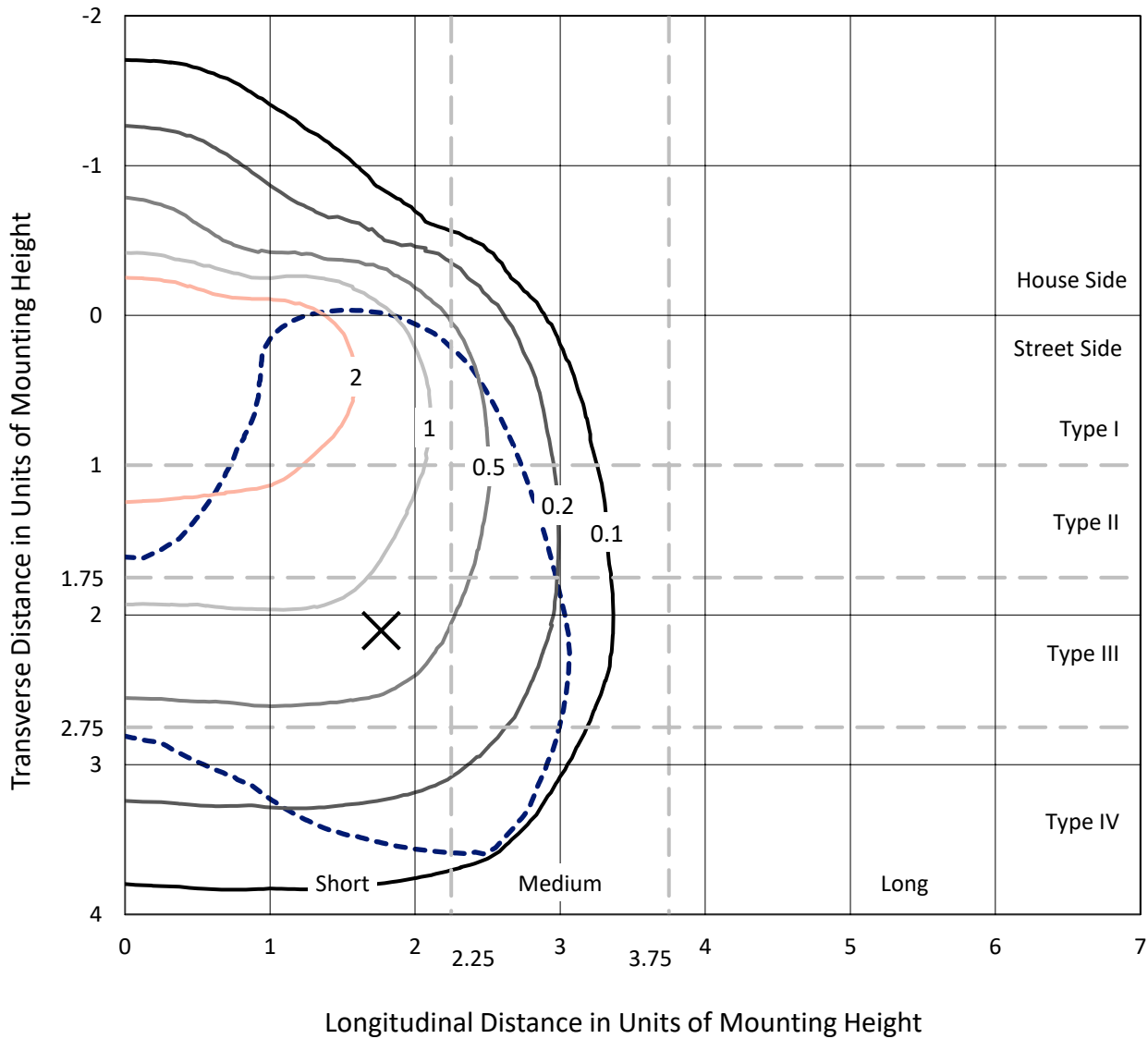
Lumens per Lamp: N/A  
Luminaire Lumens: 11042.8 lumens  
Efficiency: N/A  
Efficacy: 117.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

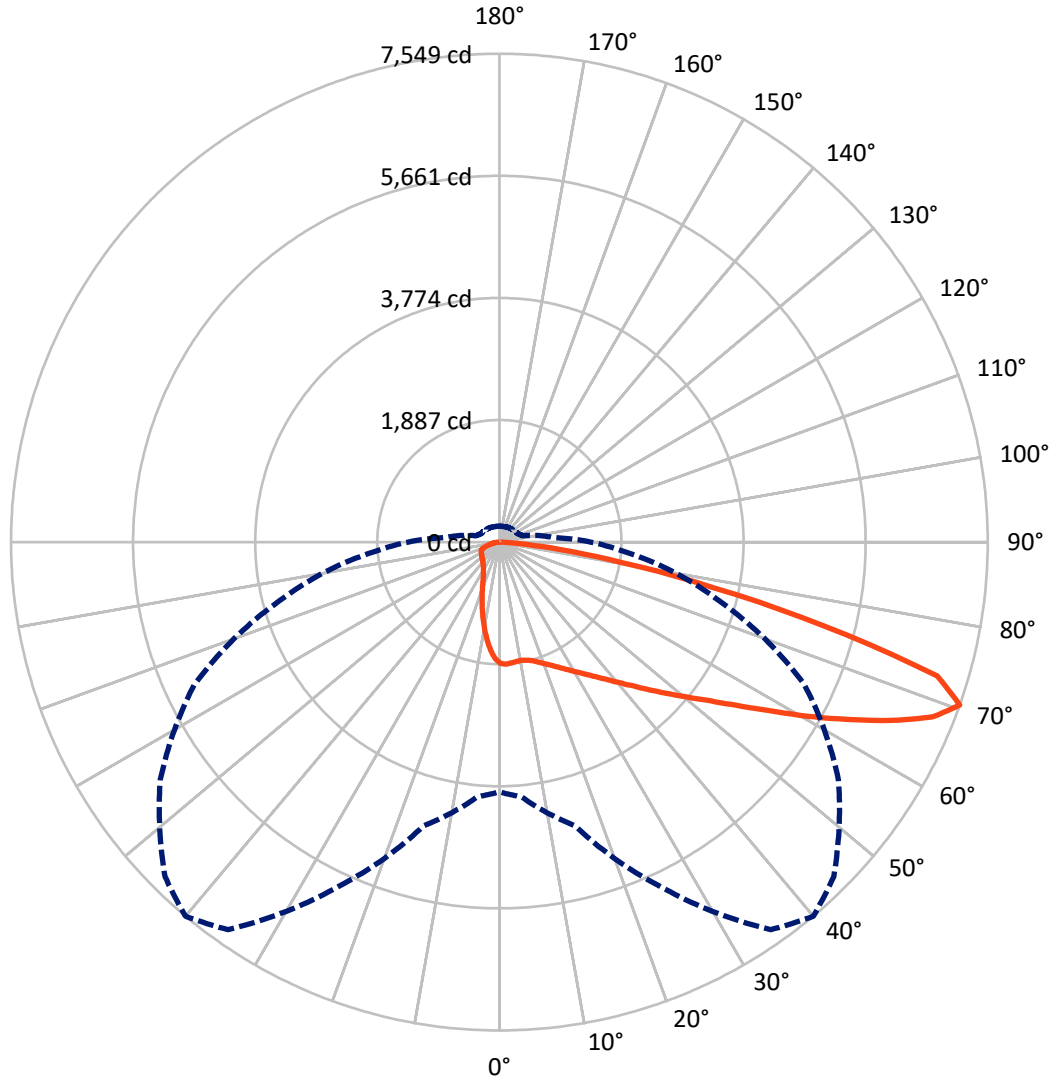
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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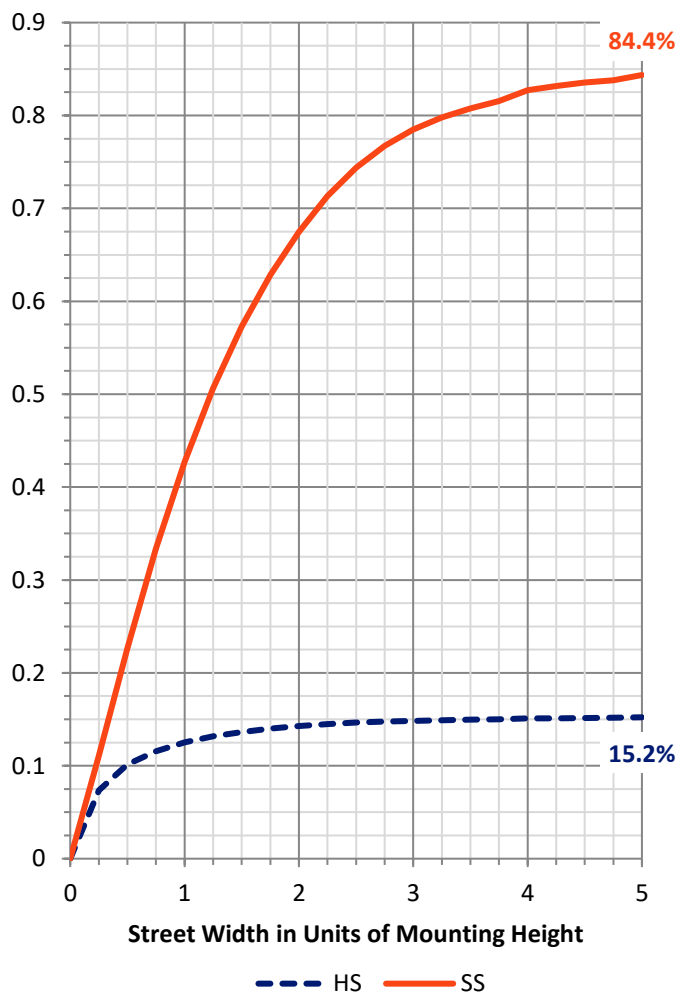
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1700.9	0.0	1700.9
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	9341.9	0.0	9341.9
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	11042.8	0.0	11042.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.7	1.5
10°-20°	431.8	3.9
20°-30°	678.0	6.1
30°-40°	1019.4	9.2
40°-50°	1573.5	14.2
50°-60°	2336.7	21.2
60°-70°	2945.4	26.7
70°-80°	1703.3	15.4
80°-90°	189.0	1.7
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°	11042.8	100.0
0°-180°	11042.8	100.0

**Coefficient of Utilization**



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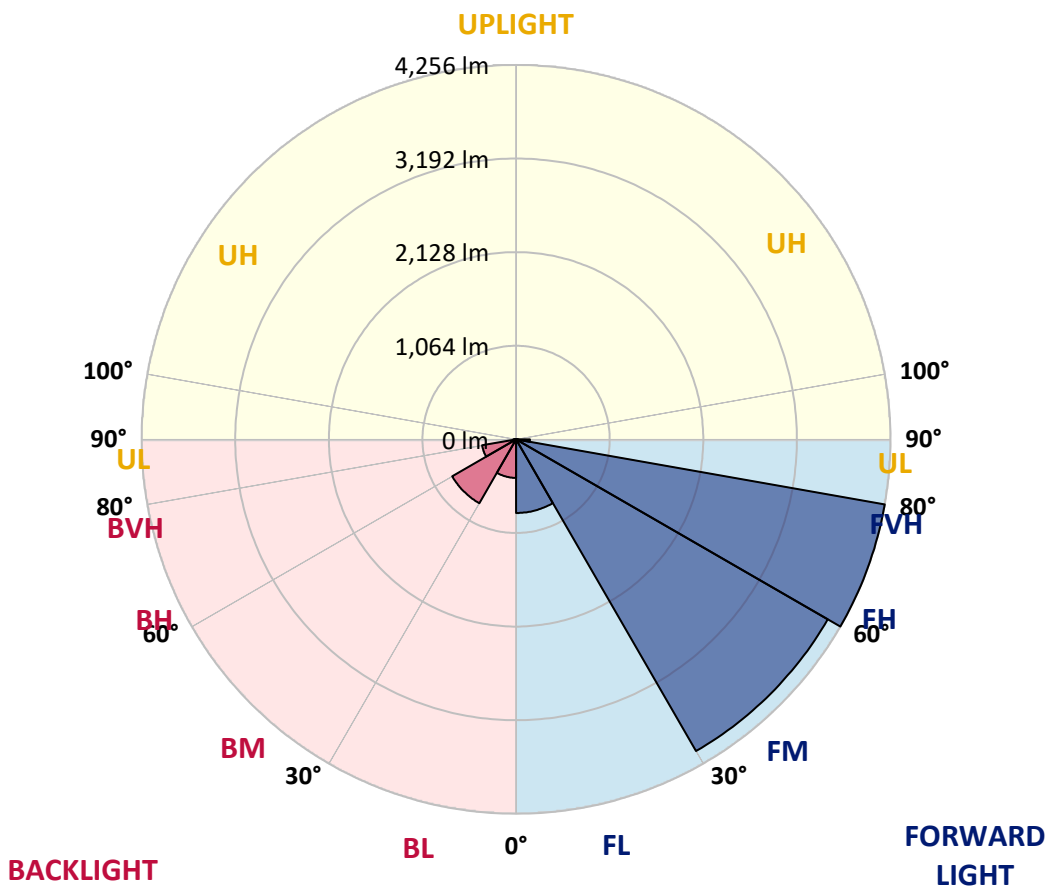
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	837.1	7.6			
FM (30°-60°)	4091.2	37.0			
FH (60°-80°)	4256.2	38.5			G2/5000
FVH (80°-90°)	157.4	1.4			G2/225
BL (0°-30°)	438.3	4.0	B1/500		
BM (30°-60°)	838.4	7.6	B1/1000		
BH (60°-80°)	392.6	3.6	B1/500		G1/500
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: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1875.2	1875.2	1875.2	1875.2	1875.2	1875.2	1875.2	1875.2	1875.2	1875.2	1875.2
2.5°	1886.7	1890.0	1892.5	1895.8	1894.2	1889.2	1893.3	1893.3	1884.3	1874.4	1865.3
5°	1889.2	1893.3	1892.5	1891.7	1885.1	1876.8	1876.8	1871.9	1856.2	1840.6	1825.7
7.5°	1884.3	1883.4	1882.6	1880.1	1872.7	1863.7	1862.0	1852.1	1831.5	1810.1	1788.6
10°	1862.0	1861.2	1863.7	1869.4	1867.8	1859.5	1859.5	1850.5	1826.6	1800.2	1772.2
12.5°	1843.9	1843.9	1853.8	1869.4	1875.2	1871.9	1872.7	1866.1	1838.9	1807.6	1774.6
15°	1846.3	1847.2	1868.6	1894.2	1904.9	1902.4	1903.2	1895.8	1865.3	1834.0	1789.5
17.5°	1862.8	1867.0	1904.0	1939.5	1953.5	1950.2	1944.4	1932.1	1897.4	1862.0	1807.6
20°	1897.4	1904.0	1951.9	1996.4	2012.8	2005.4	1995.5	1970.8	1932.9	1894.2	1827.4
22.5°	1965.9	1970.0	2022.7	2066.4	2079.6	2070.5	2050.8	2015.3	1971.6	1931.2	1851.3
25°	2062.3	2067.2	2117.5	2157.9	2154.6	2143.9	2116.7	2073.0	2021.1	1978.2	1885.9
27.5°	2176.9	2185.1	2234.6	2266.7	2245.3	2229.6	2199.1	2146.4	2087.9	2049.1	1938.7
30°	2302.2	2305.5	2347.5	2379.6	2346.7	2325.2	2288.1	2231.3	2178.5	2149.7	2017.8
32.5°	2423.3	2426.6	2462.9	2481.0	2446.4	2430.7	2398.6	2338.4	2301.3	2285.7	2135.7
35°	2551.1	2550.3	2579.9	2595.6	2560.2	2553.6	2520.6	2474.4	2467.8	2488.4	2307.9
37.5°	2678.8	2671.4	2687.1	2707.7	2687.9	2694.5	2673.1	2657.4	2683.0	2736.5	2537.1
40°	2781.1	2781.1	2797.5	2823.1	2829.7	2858.5	2846.2	2866.8	2949.2	3077.0	2820.6
42.5°	2871.7	2872.6	2907.2	2946.7	2994.5	3039.1	3048.9	3102.5	3273.1	3473.4	3176.7
45°	2966.5	2967.3	3014.3	3072.0	3173.4	3258.3	3278.1	3398.4	3642.4	3886.4	3563.3
47.5°	3076.1	3067.1	3132.2	3228.6	3372.9	3494.9	3546.0	3716.6	4024.9	4324.9	3927.6
50°	3199.8	3180.8	3253.4	3419.9	3597.9	3765.2	3850.9	4046.3	4435.3	4729.6	4270.5
52.5°	3339.1	3328.4	3404.2	3607.0	3879.0	4071.8	4188.1	4444.4	4834.3	5132.7	4542.5
55°	3512.2	3486.6	3596.3	3854.2	4208.7	4454.3	4592.0	4838.4	5270.3	5498.6	4750.2
57.5°	3701.8	3673.7	3820.5	4163.3	4637.3	4906.8	5079.1	5281.9	5680.8	5778.9	4872.2
60°	3906.2	3897.1	4071.0	4526.0	5148.3	5461.6	5586.0	5769.8	6037.7	5941.3	4841.7
62.5°	4093.3	4090.0	4343.0	4919.2	5689.9	6034.4	6133.3	6182.0	6294.9	5930.6	4599.4
65°	4290.3	4318.3	4660.4	5375.0	6310.5	6648.5	6689.7	6566.1	6381.4	5649.5	4103.2
67.5°	4315.0	4369.4	4859.8	5802.0	6899.1	7218.1	7185.1	6712.0	6125.9	4867.3	3216.3
70°	3859.2	3954.0	4541.7	5867.1	7313.7	7548.6	7310.4	6397.9	5198.6	3526.2	2022.7
72.5°	3224.5	3306.1	3825.4	5003.3	6778.7	7077.9	6755.6	5415.4	3673.7	2022.7	1030.3
75°	2509.9	2604.7	3083.6	3977.1	5075.0	5194.5	5032.9	3776.8	2019.4	834.2	468.2
77.5°	1531.5	1599.9	1972.5	2694.5	3550.9	3372.1	2857.7	2117.5	886.1	399.8	289.3
80°	677.5	719.6	971.8	1447.4	2051.6	1939.5	1529.0	904.2	484.7	253.9	201.9
82.5°	363.5	390.7	478.9	572.9	900.9	942.1	764.1	520.9	260.5	145.1	115.4
85°	159.9	175.6	217.6	207.7	295.9	291.0	293.4	357.7	124.5	66.8	75.0
87.5°	0.0	0.0	0.0	0.0	0.8	0.8	9.1	47.8	12.4	19.8	17.3
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°	1875.2	1875.2	1875.2	1875.2	1875.2	1875.2	1875.2	1875.2	1875.2	1875.2	1875.2
2.5°	1855.4	1840.6	1836.5	1831.5	1822.4	1806.8	1795.2	1782.1	1776.3	1769.7	1770.5
5°	1809.3	1791.1	1773.8	1751.6	1723.5	1692.2	1670.8	1646.0	1632.9	1620.5	1623.8
7.5°	1769.7	1741.7	1706.2	1659.2	1609.0	1552.9	1507.6	1472.1	1448.2	1431.7	1440.0
10°	1745.0	1712.0	1650.2	1573.5	1488.6	1402.9	1337.8	1276.8	1238.9	1209.2	1207.5
12.5°	1740.0	1697.2	1607.3	1496.0	1373.2	1258.6	1163.0	1080.6	1030.3	993.2	1007.2
15°	1745.0	1690.6	1570.2	1424.3	1269.4	1114.4	995.7	900.9	840.7	807.0	804.5
17.5°	1750.7	1684.0	1528.2	1346.8	1160.6	983.3	845.7	745.1	683.3	649.5	650.3
20°	1755.7	1674.1	1478.7	1261.9	1050.1	861.4	718.8	623.1	567.9	543.2	547.3
22.5°	1763.9	1664.2	1426.0	1171.3	937.2	743.5	618.2	540.7	507.7	491.3	492.1
25°	1779.6	1658.4	1371.6	1072.4	825.9	649.5	549.0	497.0	476.4	466.5	465.7
27.5°	1811.7	1663.4	1314.7	976.7	725.3	577.8	504.4	470.7	456.6	450.0	449.2
30°	1865.3	1683.1	1265.2	879.5	638.8	521.8	474.0	453.3	445.1	439.3	438.5
32.5°	1946.9	1720.2	1211.7	788.8	568.7	480.5	450.0	439.3	433.6	430.3	430.3
35°	2070.5	1787.8	1158.9	709.7	514.3	448.4	431.1	427.0	422.0	420.4	422.0
37.5°	2248.6	1895.8	1111.1	640.5	475.6	423.7	410.5	412.1	408.0	410.5	413.0
40°	2474.4	2040.0	1070.7	583.6	446.7	405.5	392.3	398.1	395.6	398.1	402.2
42.5°	2760.5	2218.9	1040.2	539.1	426.1	390.7	378.3	384.1	382.5	385.8	389.9
45°	3079.4	2454.6	1026.2	507.7	411.3	380.0	366.8	370.9	369.3	371.7	375.9
47.5°	3385.2	2669.0	1038.6	489.6	398.9	370.9	356.9	358.6	357.7	356.9	359.4
50°	3649.0	2839.6	1074.0	483.8	390.7	361.9	348.7	349.5	347.0	342.1	343.7
52.5°	3864.1	2976.4	1095.4	483.8	386.6	352.0	339.6	340.4	335.5	328.9	329.7
55°	4005.9	3031.6	1078.1	483.0	384.9	343.7	330.5	331.4	326.4	318.2	319.0
57.5°	4046.3	2978.1	1005.6	474.0	383.3	337.1	321.5	323.1	319.8	310.7	310.7
60°	3933.4	2781.9	872.9	453.3	379.2	333.0	314.9	317.3	315.7	306.6	306.6
62.5°	3637.5	2433.2	714.6	422.0	367.6	328.1	309.1	314.0	318.2	313.2	312.4
65°	3083.6	1949.4	581.1	387.4	352.8	319.8	300.9	313.2	322.3	328.9	328.9
67.5°	2313.7	1395.5	474.0	351.1	330.5	303.3	290.1	301.7	308.3	312.4	314.9
70°	1410.3	821.0	373.4	309.1	298.4	278.6	268.7	257.2	248.1	246.5	247.3
72.5°	689.9	469.8	303.3	262.9	254.7	236.6	214.3	209.4	205.2	202.8	201.9
75°	380.0	327.2	250.6	218.4	203.6	181.3	176.4	168.1	166.5	163.2	164.0
77.5°	268.7	258.0	206.9	177.2	155.0	143.4	145.9	140.1	140.1	137.7	136.8
80°	201.9	202.8	159.1	129.4	114.6	110.5	112.9	112.9	111.3	110.5	109.6
82.5°	127.8	144.2	107.2	83.3	81.6	82.4	81.6	80.8	82.4	80.0	79.1
85°	88.2	103.9	65.1	49.5	49.5	48.6	50.3	49.5	51.1	48.6	48.6
87.5°	19.8	46.2	23.9	14.8	15.7	14.8	15.7	16.5	18.1	19.0	19.0
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)