

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: P637012

Luminaire Tested: GWS-SA4B-830-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-830-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9813.8 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

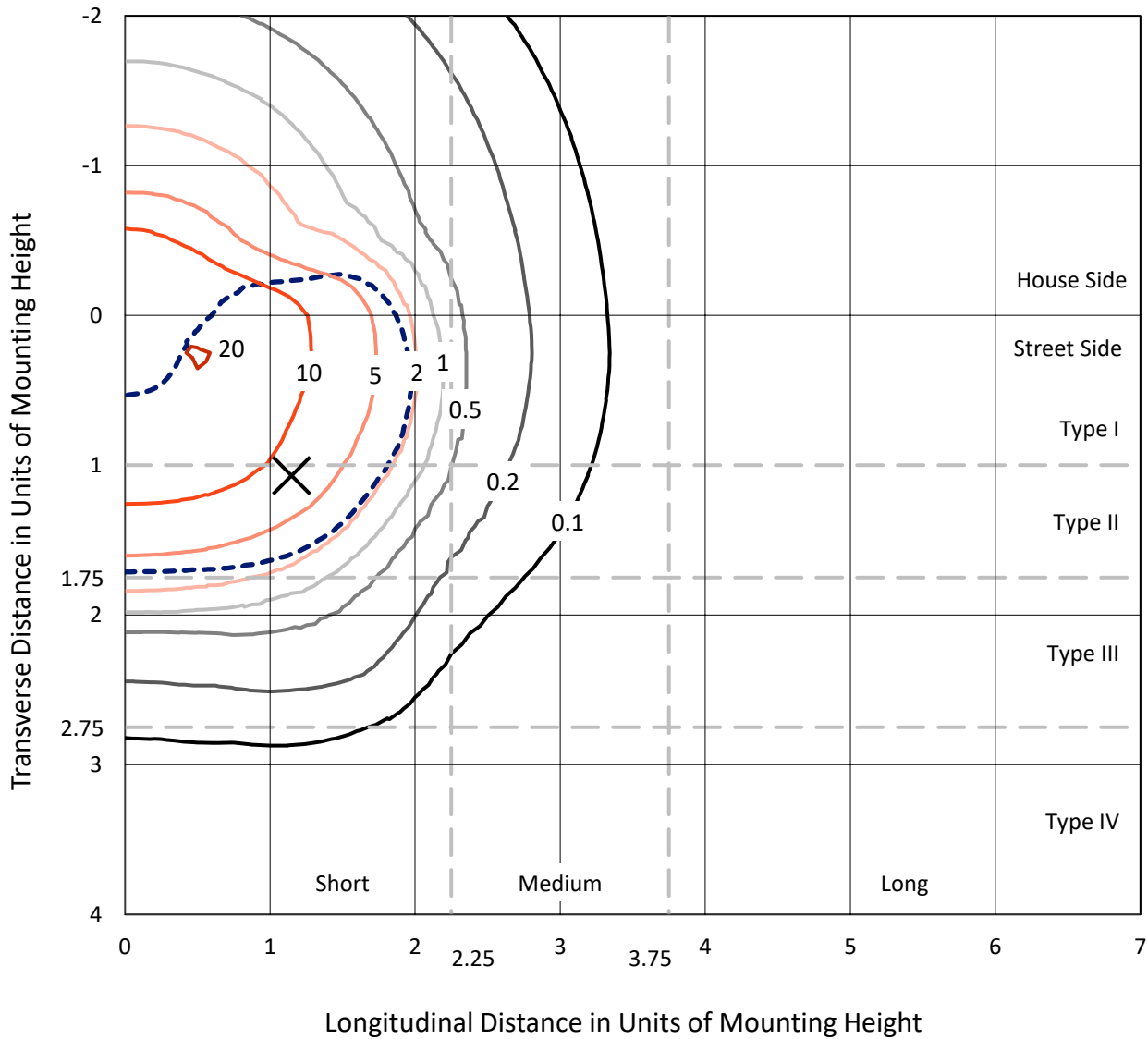
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

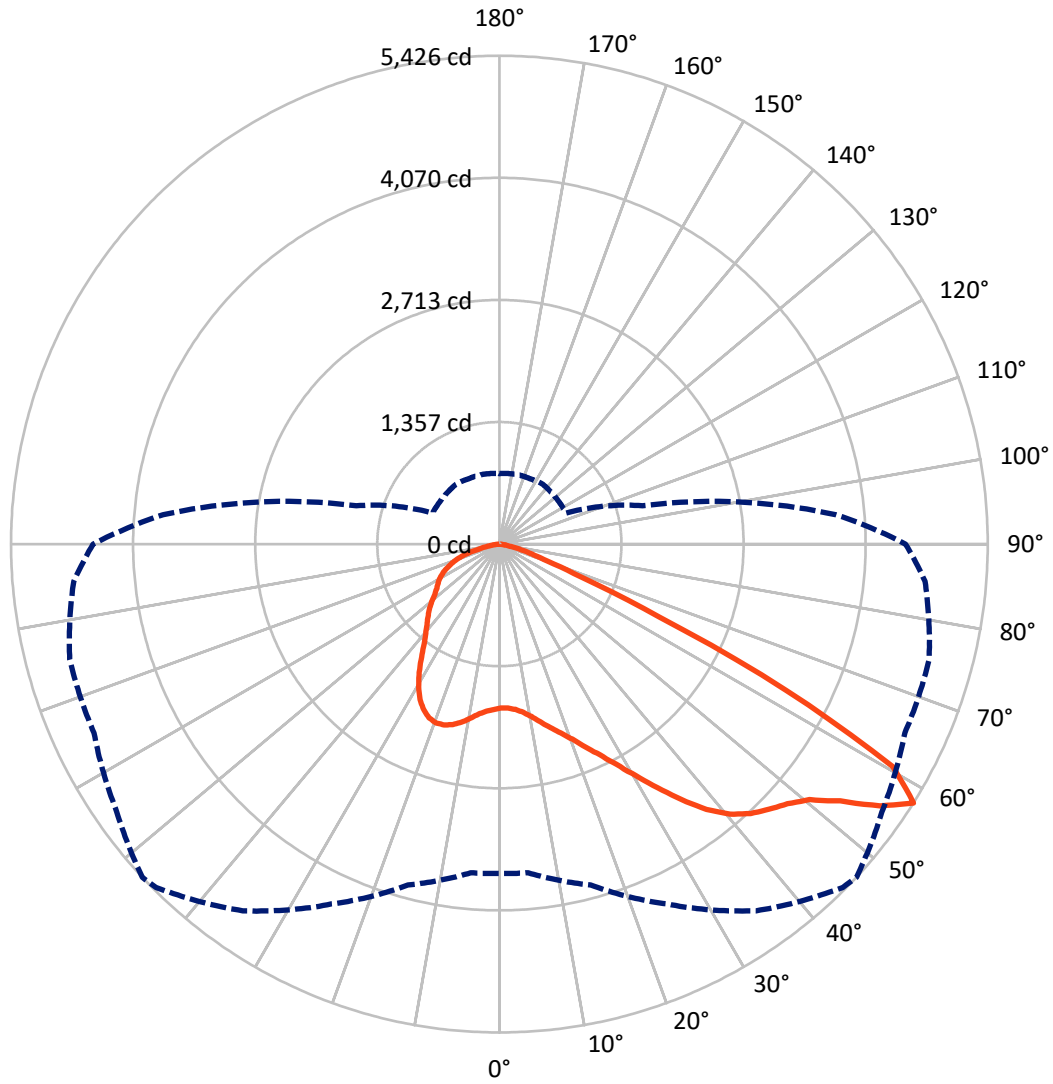
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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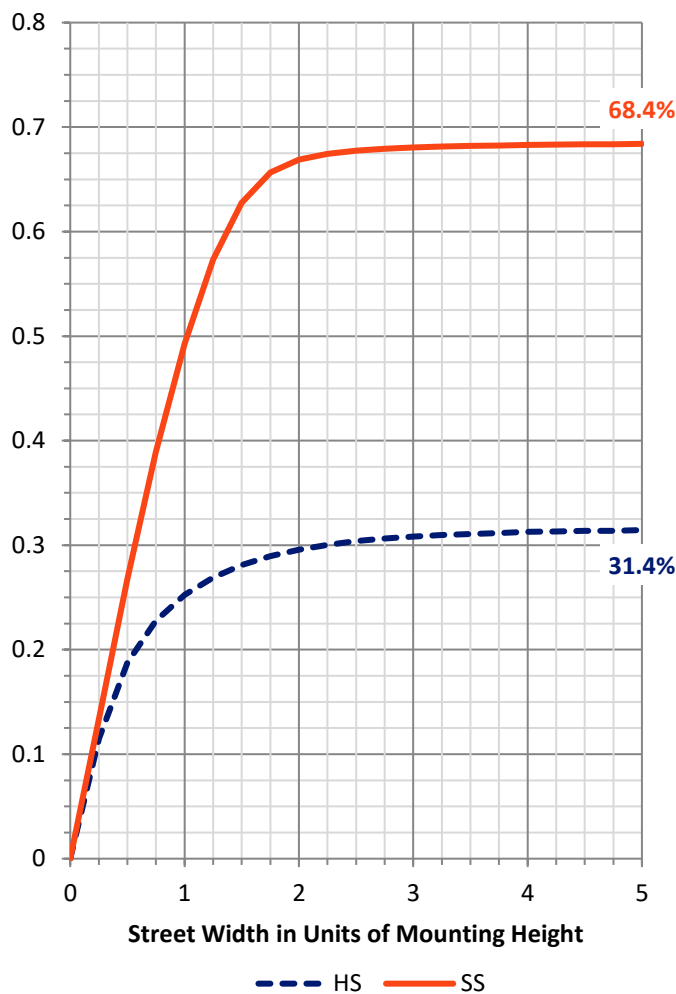
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3106.1	0.0	3106.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	6707.7	0.0	6707.7
	% Fixture	68.4	0.0	68.4
Total	Lumens	9813.8	0.0	9813.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.5	1.8
10°-20°	590.4	6.0
20°-30°	1063.1	10.8
30°-40°	1605.7	16.4
40°-50°	2162.3	22.0
50°-60°	2598.2	26.5
60°-70°	1265.4	12.9
70°-80°	311.7	3.2
80°-90°	37.5	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°	9813.8	100.0
0°-180°	9813.8	100.0

Coefficient of Utilization



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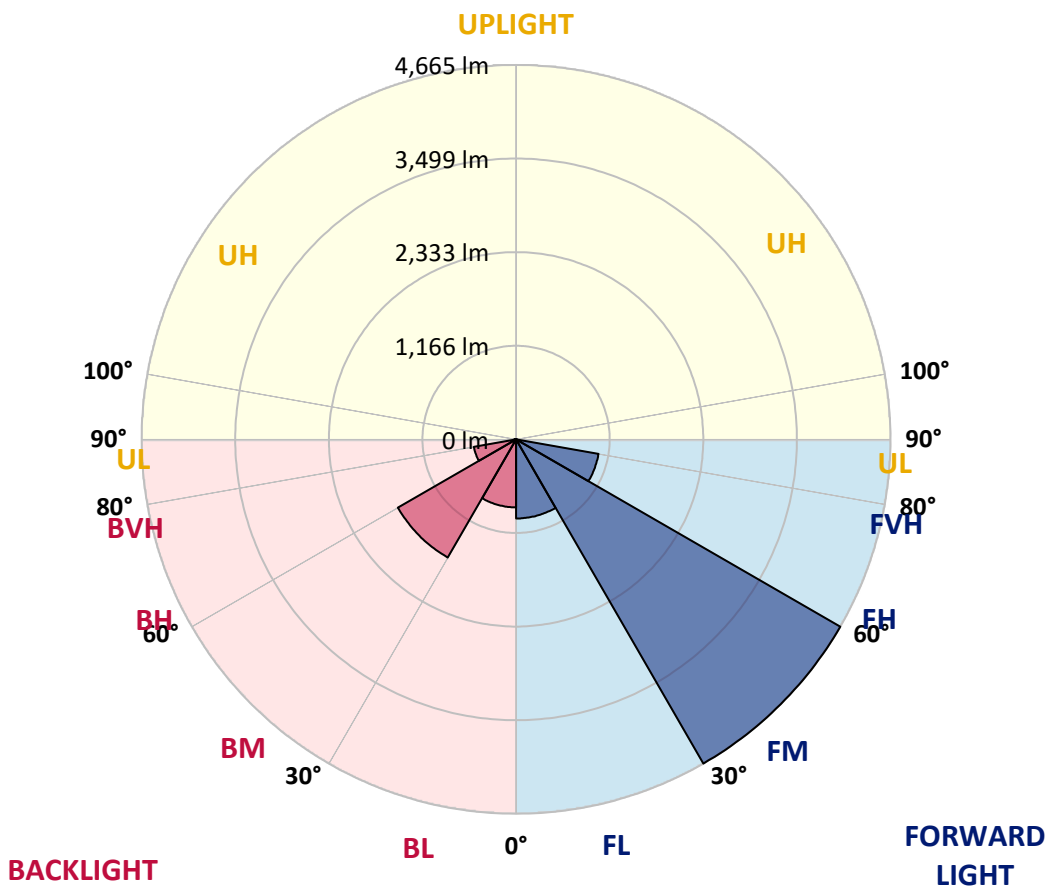
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	985.7	10.0			
FM (30°-60°)	4665.0	47.5			
FH (60°-80°)	1042.9	10.6			G1/1800
FVH (80°-90°)	14.1	0.1			G1/100
BL (0°-30°)	847.3	8.6	B2/1000		
BM (30°-60°)	1701.2	17.3	B2/2500		
BH (60°-80°)	534.2	5.4	B2/1000		G2/1000
BVH (80°-90°)	23.4	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1820.0	1820.0	1820.0	1820.0	1820.0	1820.0	1820.0	1820.0	1820.0	1820.0	1820.0
2.5°	1816.7	1815.9	1815.9	1820.8	1820.8	1822.5	1824.9	1827.4	1828.2	1824.1	1815.0
5°	1836.5	1836.5	1836.5	1840.6	1840.6	1842.2	1845.5	1846.4	1845.5	1838.9	1829.9
7.5°	1867.8	1867.8	1868.6	1873.6	1877.7	1880.2	1885.9	1885.1	1882.6	1871.9	1860.4
10°	1918.9	1921.4	1923.8	1929.6	1937.9	1943.6	1947.7	1947.7	1944.4	1928.0	1913.1
12.5°	1991.4	1994.7	1997.2	2002.1	2008.7	2018.6	2027.7	2027.7	2023.6	2003.0	1980.7
15°	2076.3	2079.6	2078.8	2080.5	2092.8	2106.8	2114.2	2119.2	2120.8	2092.0	2057.4
17.5°	2173.6	2176.9	2173.6	2168.6	2170.3	2192.6	2205.7	2223.9	2234.6	2195.8	2140.6
20°	2261.8	2258.5	2258.5	2261.8	2266.7	2293.9	2313.7	2343.4	2356.6	2309.6	2223.9
22.5°	2354.9	2362.4	2359.1	2359.1	2378.8	2424.2	2448.1	2486.8	2500.8	2439.8	2324.4
25°	2475.3	2481.9	2480.2	2481.9	2504.9	2569.2	2593.1	2664.9	2678.9	2591.5	2435.7
27.5°	2607.2	2617.9	2622.8	2621.2	2658.3	2742.3	2772.0	2871.7	2897.3	2761.3	2554.4
30°	2778.6	2790.1	2794.3	2792.6	2836.3	2950.9	2984.7	3098.4	3134.7	2962.4	2705.2
32.5°	2977.3	2988.8	3001.2	3006.1	3062.2	3179.2	3227.8	3345.7	3397.6	3194.9	2887.4
35°	3174.3	3184.1	3208.1	3246.8	3323.4	3443.0	3485.8	3602.1	3652.3	3436.4	3107.5
37.5°	3391.9	3398.5	3419.1	3472.6	3583.1	3696.8	3739.7	3851.0	3856.7	3669.6	3356.4
40°	3630.1	3630.1	3626.0	3678.7	3794.1	3908.7	3945.8	4010.1	3976.3	3849.3	3598.8
42.5°	3832.0	3828.7	3832.0	3881.5	3967.2	4060.3	4092.5	4080.1	4037.3	3987.0	3818.0
45°	4014.2	4016.7	4046.3	4084.2	4128.8	4184.0	4202.9	4132.9	4094.1	4097.4	3993.6
47.5°	4137.8	4140.3	4209.5	4273.0	4300.2	4317.5	4309.3	4212.0	4192.2	4229.3	4128.8
50°	4154.3	4167.5	4287.0	4417.3	4484.8	4487.3	4464.2	4345.5	4339.8	4381.8	4201.3
52.5°	4157.6	4170.8	4320.0	4554.9	4730.5	4767.6	4741.2	4617.5	4557.4	4515.3	4290.3
55°	4145.2	4160.1	4324.9	4647.2	4983.5	5131.9	5134.4	4959.6	4767.6	4739.5	4544.2
57.5°	3659.7	3665.5	3921.0	4412.3	4973.6	5394.0	5426.2	5188.8	4969.5	4943.1	4747.8
60°	2549.5	2572.5	2850.3	3499.0	4178.2	4919.2	5023.1	4953.8	4807.1	4615.1	4073.5
62.5°	1276.8	1296.6	1575.2	2188.4	2881.6	3466.9	3578.1	3651.5	3686.1	3480.1	2773.7
65°	549.8	564.6	737.7	1143.3	1631.2	1913.9	1952.7	2040.9	2256.8	2013.7	1494.4
67.5°	367.6	377.5	465.7	697.3	961.1	979.2	973.5	992.4	1039.4	858.1	675.1
70°	281.9	290.1	349.5	511.0	690.7	591.0	559.7	507.7	551.4	562.2	547.3
72.5°	204.4	211.0	255.5	348.7	432.7	377.5	372.6	398.9	458.3	474.8	465.7
75°	131.9	135.2	162.4	191.2	223.4	242.3	252.2	300.0	360.2	372.6	361.9
77.5°	88.2	90.7	106.3	122.8	126.9	127.8	131.1	152.5	193.7	216.8	214.3
80°	46.2	46.2	51.9	51.9	59.3	70.9	74.2	88.2	107.2	118.7	119.5
82.5°	18.1	19.0	22.3	24.7	29.7	36.3	38.7	46.2	56.1	64.3	71.7
85°	7.4	8.2	9.1	10.7	13.2	16.5	17.3	19.8	26.4	33.0	37.1
87.5°	0.0	0.0	0.8	0.8	1.6	2.5	2.5	3.3	4.1	7.4	9.9
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°	1820.0	1820.0	1820.0	1820.0	1820.0	1820.0	1820.0	1820.0	1820.0	1820.0	1820.0
2.5°	1825.8	1815.0	1825.8	1829.1	1838.1	1841.4	1835.6	1834.8	1834.8	1826.6	1824.1
5°	1838.1	1828.2	1838.9	1843.9	1857.1	1865.3	1867.0	1873.6	1877.7	1874.4	1873.6
7.5°	1868.6	1856.3	1867.8	1875.2	1892.5	1905.7	1911.5	1926.3	1937.0	1935.4	1934.6
10°	1922.2	1905.7	1918.9	1931.3	1950.2	1965.9	1966.7	1974.9	1985.7	1982.4	1980.7
12.5°	1984.0	1968.4	1983.2	1995.6	2017.8	2024.4	2013.7	2010.4	2012.0	2007.9	2004.6
15°	2059.8	2037.6	2050.8	2064.8	2077.2	2069.7	2046.7	2037.6	2036.8	2031.0	2027.7
17.5°	2135.7	2107.7	2117.5	2125.0	2119.2	2096.1	2067.3	2051.6	2044.2	2032.6	2029.3
20°	2210.7	2175.2	2173.6	2167.8	2141.4	2099.4	2060.7	2029.3	2010.4	1994.7	1989.0
22.5°	2296.4	2247.0	2222.2	2195.8	2138.2	2069.7	2011.2	1966.7	1936.2	1916.4	1909.8
25°	2388.7	2318.7	2267.6	2214.8	2105.2	2006.3	1924.7	1863.7	1827.4	1806.0	1798.6
27.5°	2480.2	2383.8	2307.1	2217.3	2039.2	1914.8	1805.1	1722.7	1686.5	1669.1	1663.4
30°	2603.9	2470.3	2354.1	2185.1	1952.7	1787.8	1651.0	1567.8	1543.9	1531.5	1526.5
32.5°	2746.5	2580.0	2416.8	2117.5	1842.2	1639.5	1495.2	1437.5	1421.0	1397.1	1396.3
35°	2934.4	2736.6	2476.1	2017.8	1702.9	1480.4	1375.7	1334.5	1304.8	1266.9	1263.6
37.5°	3153.6	2931.9	2508.2	1890.9	1540.6	1349.3	1286.7	1240.5	1192.7	1142.4	1135.8
40°	3380.3	3160.2	2510.7	1740.9	1381.5	1262.8	1210.0	1149.9	1090.5	1034.5	1027.0
42.5°	3618.5	3372.9	2467.0	1567.8	1251.2	1187.8	1134.2	1058.4	991.6	953.7	949.6
45°	3831.2	3544.4	2368.1	1385.6	1154.8	1125.1	1056.7	975.1	939.7	912.5	906.7
47.5°	3998.5	3658.1	2234.6	1222.4	1076.5	1060.8	971.8	929.8	902.6	877.8	872.1
50°	4081.0	3683.7	2060.7	1089.7	1004.0	985.0	924.0	891.9	873.7	853.9	849.0
52.5°	4183.2	3712.5	1910.7	978.4	933.1	907.5	884.4	858.9	845.7	833.3	829.2
55°	4418.1	3821.3	1831.5	889.4	865.5	853.9	850.6	829.2	825.1	816.8	809.4
57.5°	4513.7	3751.2	1644.4	816.8	811.9	813.6	821.8	802.0	797.9	788.0	783.1
60°	3630.1	2835.5	1113.6	754.2	767.4	778.1	786.4	766.6	760.8	759.2	752.6
62.5°	2326.1	1744.2	777.3	695.7	715.5	728.7	733.6	714.6	710.5	723.7	724.5
65°	1210.8	950.4	630.6	633.0	649.5	669.3	679.2	672.6	671.0	685.0	685.8
67.5°	618.2	581.1	549.8	558.9	572.0	597.6	620.7	649.5	659.4	661.1	661.9
70°	526.7	510.2	494.6	500.3	514.3	528.4	550.6	564.6	548.1	544.0	542.4
72.5°	448.4	436.0	428.6	435.2	442.6	440.2	433.6	440.2	442.6	443.5	444.3
75°	348.7	339.6	333.8	334.7	334.7	325.6	313.2	305.8	297.6	291.0	291.0
77.5°	213.5	215.1	220.9	220.1	219.3	216.0	203.6	197.0	177.2	171.4	171.4
80°	122.0	124.5	130.2	131.9	131.9	127.8	115.4	108.0	98.9	94.8	94.0
82.5°	74.2	77.5	80.8	82.4	83.3	78.3	67.6	61.8	56.9	52.8	52.8
85°	38.7	40.4	43.7	44.5	42.0	37.1	31.3	28.8	23.9	23.1	23.1
87.5°	10.7	11.5	13.2	10.7	9.9	7.4	4.1	3.3	1.6	0.8	0.8
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)