

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: P632777

Luminaire Tested: GWS-SA2D-735-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632777
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-SA2D-735-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9829.1 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

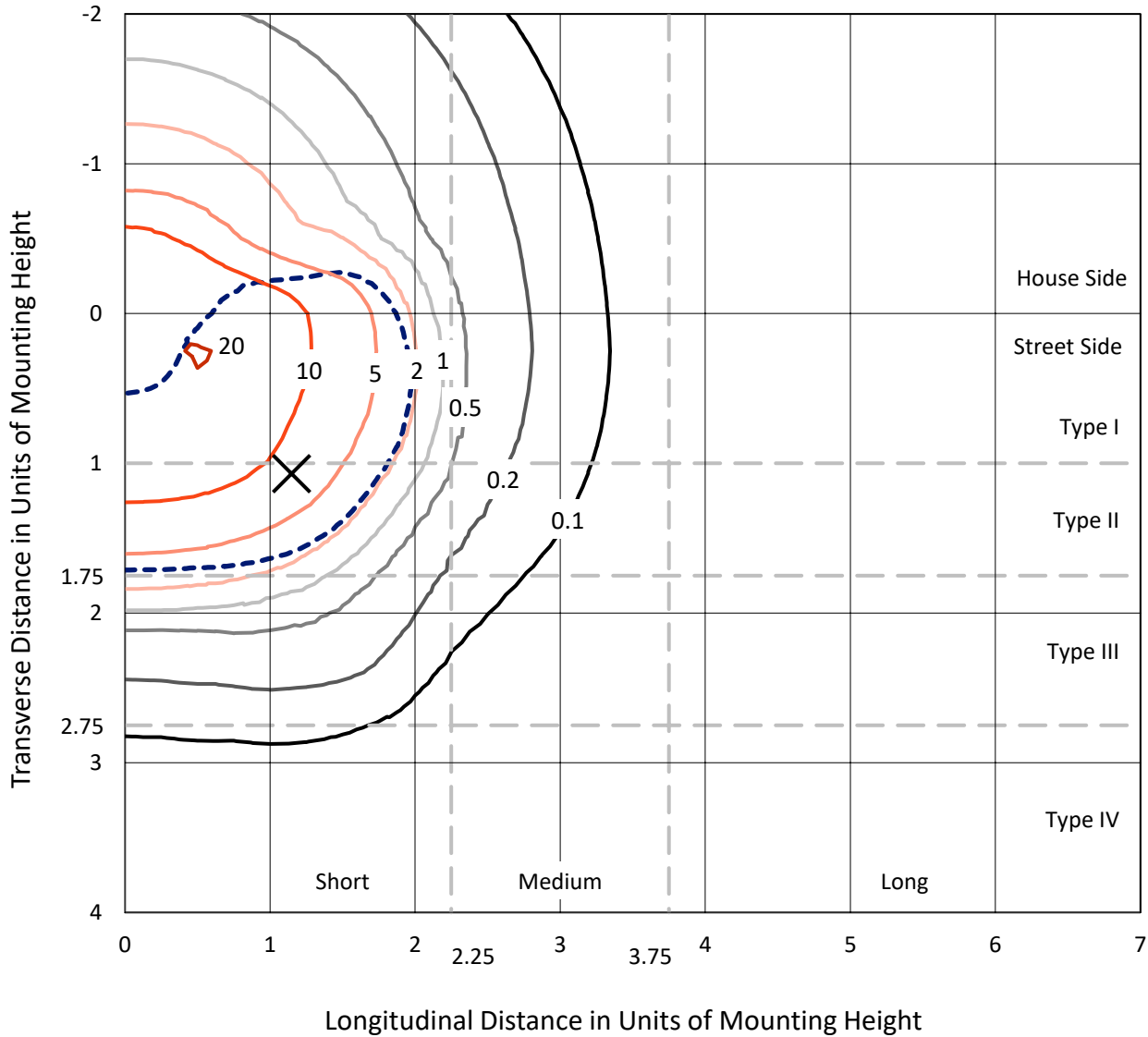
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

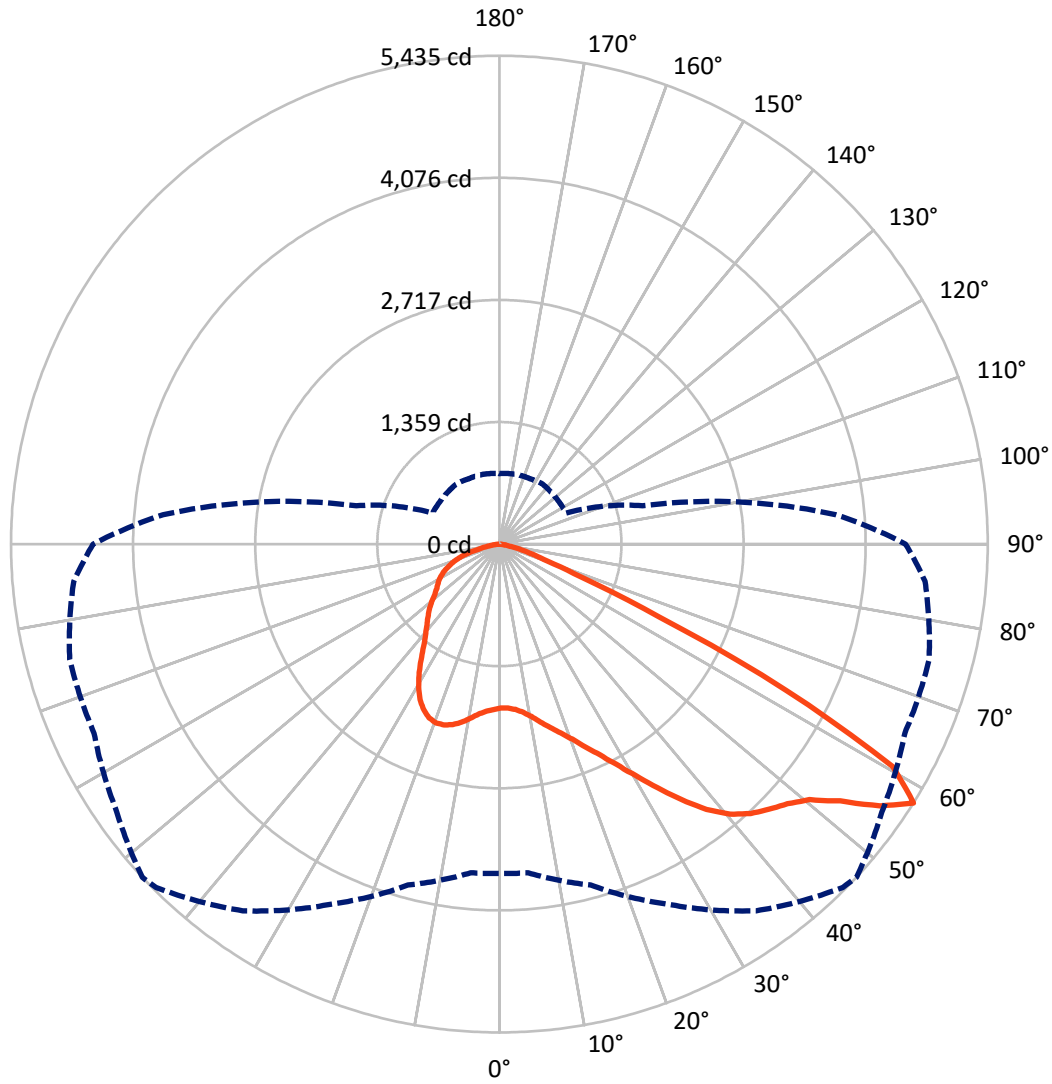
✕ Max cd
 - - - 1/2 Max cd



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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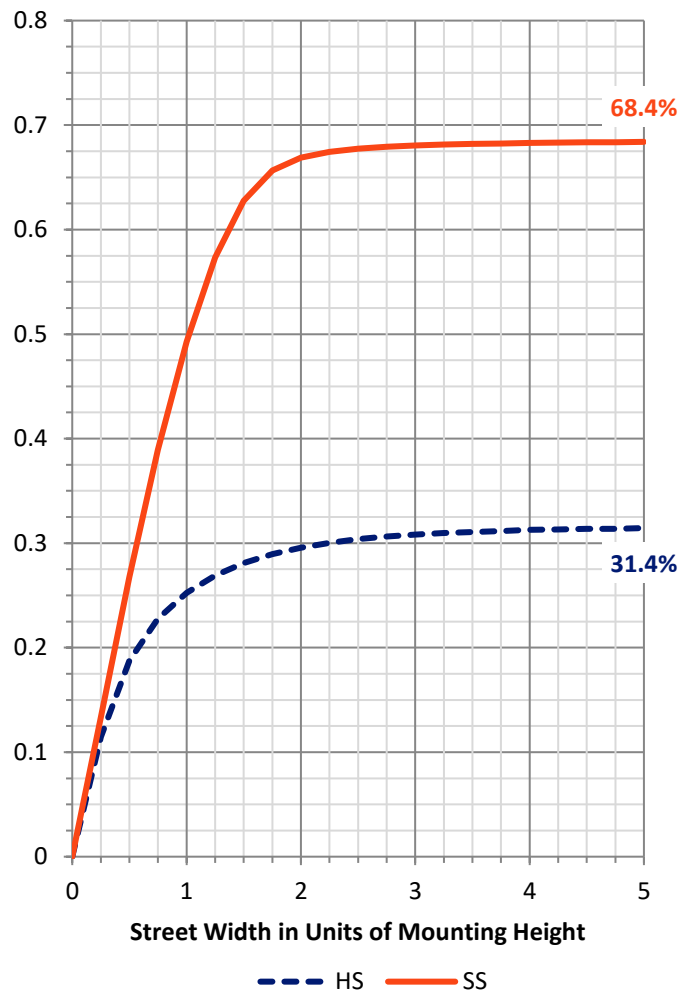
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3110.9	0.0	3110.9
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	6718.2	0.0	6718.2
	% Fixture	68.4	0.0	68.4
Total	Lumens	9829.1	0.0	9829.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.8	1.8
10°-20°	591.3	6.0
20°-30°	1064.8	10.8
30°-40°	1608.2	16.4
40°-50°	2165.6	22.0
50°-60°	2602.3	26.5
60°-70°	1267.4	12.9
70°-80°	312.2	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°	9829.1	100.0
0°-180°	9829.1	100.0

Coefficient of Utilization



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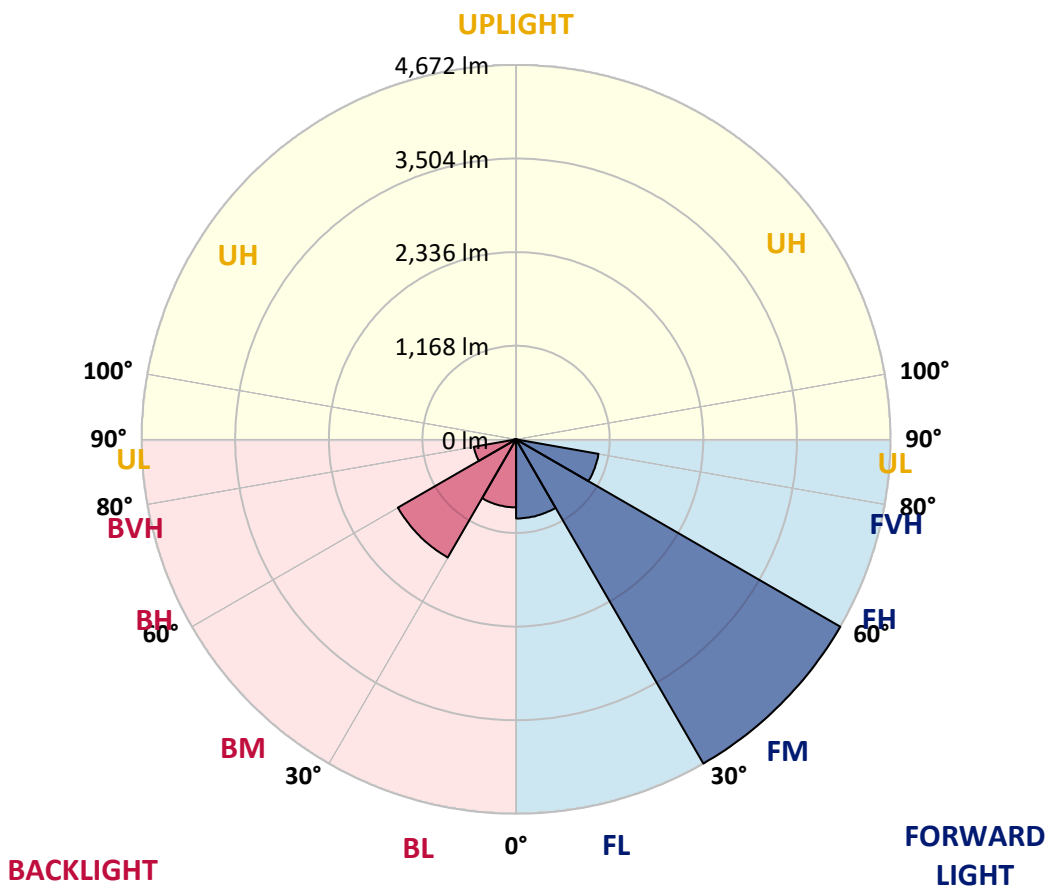
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	987.3	10.0			
FM (30°-60°)	4672.3	47.5			
FH (60°-80°)	1044.5	10.6			G1/1800
FVH (80°-90°)	14.1	0.1			G1/100
BL (0°-30°)	848.6	8.6	B2/1000		
BM (30°-60°)	1703.8	17.3	B2/2500		
BH (60°-80°)	535.0	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°	1822.8	1822.8	1822.8	1822.8	1822.8	1822.8	1822.8	1822.8	1822.8	1822.8	1822.8
2.5°	1819.5	1818.7	1818.7	1823.6	1823.6	1825.3	1827.8	1830.3	1831.1	1826.9	1817.9
5°	1839.3	1839.3	1839.3	1843.5	1843.5	1845.1	1848.4	1849.2	1848.4	1841.8	1832.7
7.5°	1870.7	1870.7	1871.5	1876.5	1880.6	1883.1	1888.9	1888.0	1885.6	1874.8	1863.3
10°	1921.9	1924.4	1926.8	1932.6	1940.9	1946.7	1950.8	1950.8	1947.5	1931.0	1916.1
12.5°	1994.5	1997.8	2000.3	2005.3	2011.9	2021.8	2030.9	2030.9	2026.7	2006.1	1983.8
15°	2079.6	2082.9	2082.0	2083.7	2096.1	2110.1	2117.5	2122.5	2124.1	2095.3	2060.6
17.5°	2177.0	2180.3	2177.0	2172.0	2173.7	2196.0	2209.2	2227.3	2238.1	2199.3	2144.0
20°	2265.3	2262.0	2262.0	2265.3	2270.3	2297.5	2317.3	2347.0	2360.3	2313.2	2227.3
22.5°	2358.6	2366.0	2362.7	2362.7	2382.5	2428.0	2451.9	2490.7	2504.7	2443.6	2328.1
25°	2479.1	2485.7	2484.1	2485.7	2508.9	2573.2	2597.2	2669.0	2683.0	2595.5	2439.5
27.5°	2611.2	2622.0	2626.9	2625.3	2662.4	2746.6	2776.3	2876.2	2901.8	2765.6	2558.4
30°	2782.9	2794.5	2798.6	2797.0	2840.7	2955.5	2989.3	3103.3	3139.6	2967.0	2709.5
32.5°	2981.9	2993.5	3005.8	3010.8	3066.9	3184.2	3232.9	3350.9	3402.9	3199.8	2891.9
35°	3179.2	3189.1	3213.1	3251.9	3328.6	3448.3	3491.3	3607.7	3658.0	3441.7	3112.3
37.5°	3397.2	3403.8	3424.4	3478.1	3588.7	3702.6	3745.5	3857.0	3862.8	3675.4	3361.7
40°	3635.7	3635.7	3631.6	3684.4	3800.0	3914.8	3951.9	4016.3	3982.5	3855.3	3604.4
42.5°	3838.0	3834.7	3838.0	3887.5	3973.4	4066.7	4098.9	4086.5	4043.6	3993.2	3824.0
45°	4020.4	4022.9	4052.6	4090.6	4135.2	4190.5	4209.5	4139.3	4100.5	4103.8	3999.8
47.5°	4144.3	4146.8	4216.1	4279.7	4306.9	4324.2	4316.0	4218.6	4198.8	4235.9	4135.2
50°	4160.8	4174.0	4293.7	4424.1	4491.8	4494.3	4471.2	4352.3	4346.5	4388.6	4207.8
52.5°	4164.1	4177.3	4326.7	4562.0	4737.8	4775.0	4748.6	4624.7	4564.5	4522.4	4297.0
55°	4151.7	4166.6	4331.7	4654.5	4991.3	5139.9	5142.4	4967.4	4775.0	4746.9	4551.3
57.5°	3665.5	3671.2	3927.2	4419.2	4981.4	5402.4	5434.6	5196.9	4977.3	4950.8	4755.2
60°	2553.4	2576.6	2854.8	3504.5	4184.7	4926.9	5030.9	4961.6	4814.6	4622.3	4079.9
62.5°	1278.8	1298.6	1577.6	2191.8	2886.1	3472.3	3583.7	3657.2	3691.9	3485.5	2778.0
65°	550.6	565.5	738.9	1145.0	1633.8	1916.9	1955.7	2044.1	2260.4	2016.8	1496.7
67.5°	368.2	378.1	466.4	698.4	962.6	980.8	975.0	994.0	1041.0	859.4	676.1
70°	282.3	290.6	350.0	511.8	691.8	591.9	560.6	508.5	552.3	563.0	548.2
72.5°	204.7	211.3	255.9	349.2	433.4	378.1	373.1	399.6	459.0	475.5	466.4
75°	132.1	135.4	162.6	191.5	223.7	242.7	252.6	300.5	360.8	373.1	362.4
77.5°	88.3	90.8	106.5	123.0	127.1	128.0	131.3	152.7	194.0	217.1	214.6
80°	46.2	46.2	52.0	52.0	59.4	71.0	74.3	88.3	107.3	118.9	119.7
82.5°	18.2	19.0	22.3	24.8	29.7	36.3	38.8	46.2	56.1	64.4	71.8
85°	7.4	8.3	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	1.7	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°	1822.8	1822.8	1822.8	1822.8	1822.8	1822.8	1822.8	1822.8	1822.8	1822.8	1822.8
2.5°	1828.6	1817.9	1828.6	1831.9	1841.0	1844.3	1838.5	1837.7	1837.7	1829.4	1826.9
5°	1841.0	1831.1	1841.8	1846.8	1860.0	1868.2	1869.9	1876.5	1880.6	1877.3	1876.5
7.5°	1871.5	1859.1	1870.7	1878.1	1895.5	1908.7	1914.5	1929.3	1940.0	1938.4	1937.6
10°	1925.2	1908.7	1921.9	1934.3	1953.3	1968.9	1969.8	1978.0	1988.8	1985.5	1983.8
12.5°	1987.1	1971.4	1986.3	1998.7	2021.0	2027.6	2016.8	2013.5	2015.2	2011.0	2007.7
15°	2063.1	2040.8	2054.0	2068.0	2080.4	2073.0	2049.8	2040.8	2039.9	2034.2	2030.9
17.5°	2139.0	2110.9	2120.8	2128.3	2122.5	2099.4	2070.5	2054.8	2047.4	2035.8	2032.5
20°	2214.1	2178.6	2177.0	2171.2	2144.8	2102.7	2063.9	2032.5	2013.5	1997.8	1992.1
22.5°	2300.0	2250.5	2225.7	2199.3	2141.5	2073.0	2014.3	1969.8	1939.2	1919.4	1912.8
25°	2392.5	2322.3	2271.1	2218.3	2108.5	2009.4	1927.7	1866.6	1830.3	1808.8	1801.4
27.5°	2484.1	2387.5	2310.7	2220.7	2042.4	1917.8	1808.0	1725.4	1689.1	1671.7	1666.0
30°	2607.9	2474.2	2357.8	2188.5	1955.7	1790.6	1653.6	1570.2	1546.3	1533.9	1528.9
32.5°	2750.7	2584.0	2420.5	2120.8	1845.1	1642.0	1497.6	1439.8	1423.3	1399.3	1398.5
35°	2939.0	2740.8	2480.0	2021.0	1705.6	1482.7	1377.8	1336.6	1306.9	1268.9	1265.6
37.5°	3158.6	2936.5	2512.2	1893.8	1543.0	1351.4	1288.7	1242.5	1194.6	1144.2	1137.6
40°	3385.6	3165.2	2514.6	1743.6	1383.6	1264.7	1211.9	1151.6	1092.2	1036.1	1028.6
42.5°	3624.2	3378.2	2470.9	1570.2	1253.2	1189.6	1136.0	1060.0	993.1	955.2	951.0
45°	3837.2	3549.9	2371.8	1387.8	1156.6	1126.9	1058.4	976.6	941.1	913.9	908.1
47.5°	4004.8	3663.8	2238.1	1224.3	1078.2	1062.5	973.3	931.2	904.0	879.2	873.4
50°	4087.3	3689.4	2063.9	1091.4	1005.5	986.5	925.4	893.2	875.1	855.3	850.3
52.5°	4189.7	3718.3	1913.6	979.9	934.5	908.9	885.8	860.2	847.0	834.6	830.5
55°	4425.0	3827.3	1834.4	890.8	866.8	855.3	852.0	830.5	826.4	818.1	810.7
57.5°	4520.7	3757.1	1647.0	818.1	813.2	814.8	823.1	803.3	799.1	789.2	784.3
60°	3635.7	2839.9	1115.3	755.4	768.6	779.3	787.6	767.8	762.0	760.3	753.7
62.5°	2329.7	1746.9	778.5	696.8	716.6	729.8	734.7	715.8	711.6	724.8	725.7
65°	1212.7	951.9	631.5	634.0	650.5	670.3	680.3	673.7	672.0	686.0	686.9
67.5°	619.2	582.0	550.6	559.7	572.9	598.5	621.6	650.5	660.4	662.1	662.9
70°	527.5	511.0	495.3	501.1	515.1	529.2	551.5	565.5	549.0	544.9	543.2
72.5°	449.1	436.7	429.3	435.9	443.3	440.8	434.2	440.8	443.3	444.1	445.0
75°	349.2	340.1	334.3	335.2	335.2	326.1	313.7	306.3	298.0	291.4	291.4
77.5°	213.8	215.5	221.2	220.4	219.6	216.3	203.9	197.3	177.5	171.7	171.7
80°	122.2	124.7	130.4	132.1	132.1	128.0	115.6	108.1	99.1	94.9	94.1
82.5°	74.3	77.6	80.9	82.6	83.4	78.4	67.7	61.9	57.0	52.8	52.8
85°	38.8	40.5	43.8	44.6	42.1	37.1	31.4	28.9	23.9	23.1	23.1
87.5°	10.7	11.6	13.2	10.7	9.9	7.4	4.1	3.3	1.7	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)