

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: P631764

Luminaire Tested: GWS-SA2B-735-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-735-U-SL3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR 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: 5700.2 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

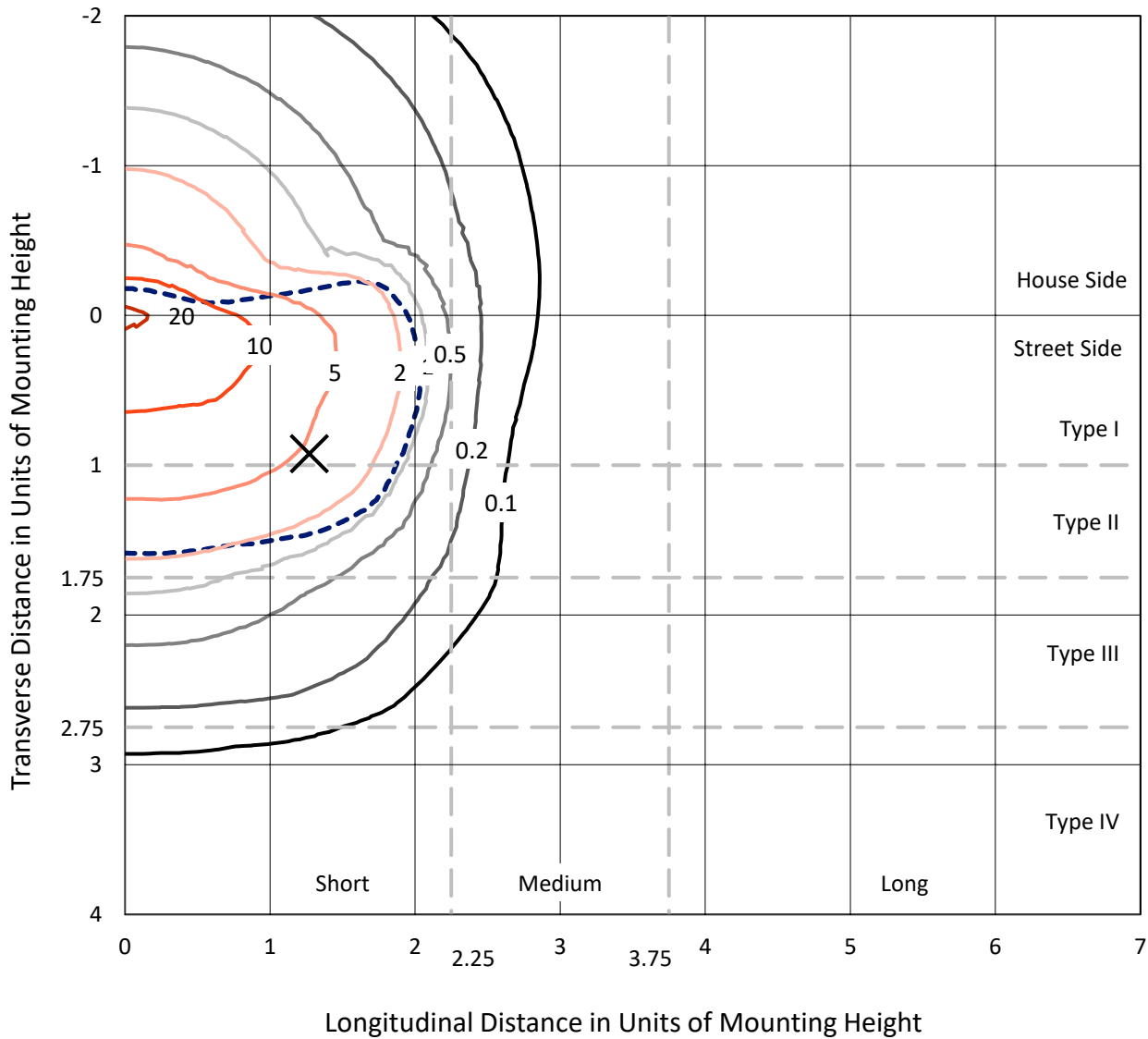
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P631764
 CATALOG NUMBER: GWS-SA2B-735-U-SL3-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

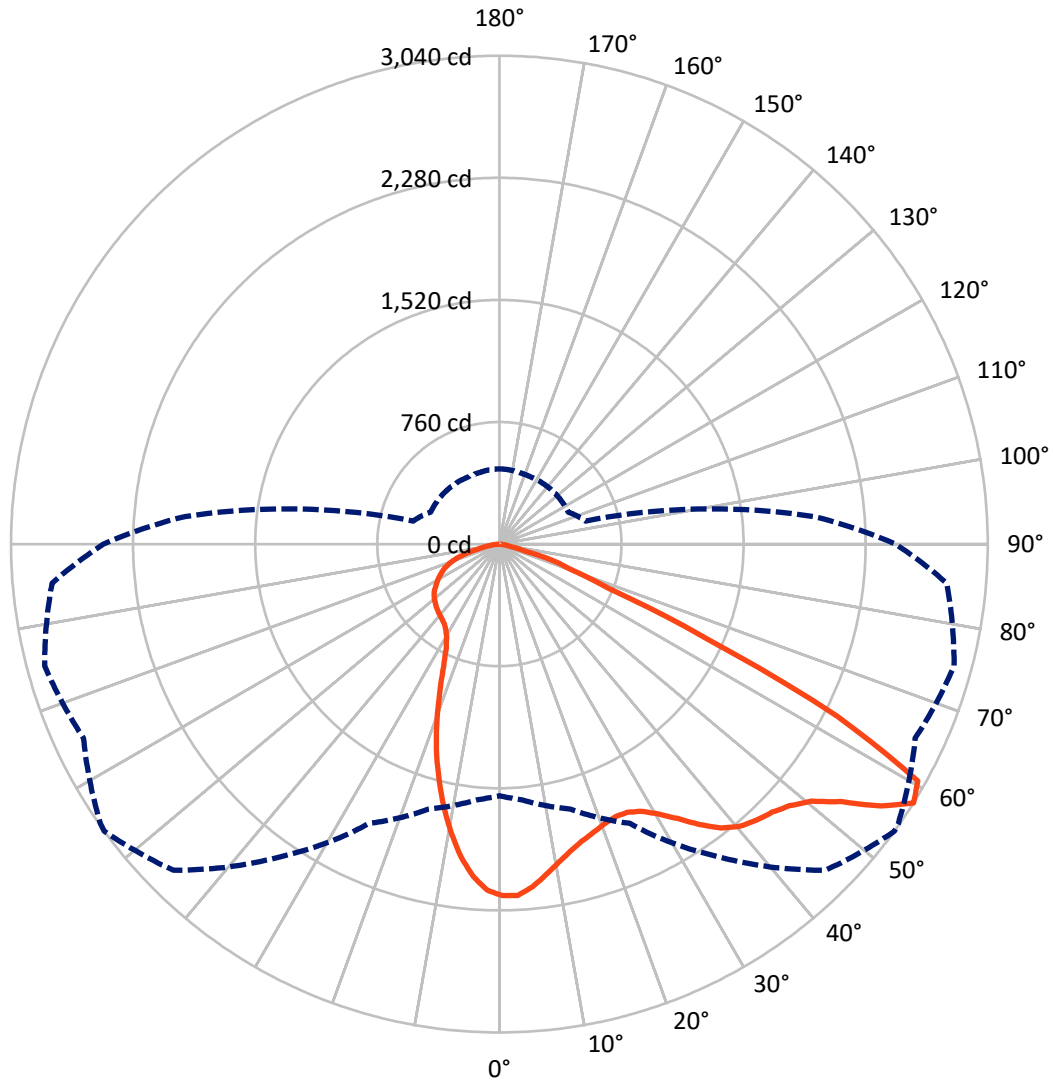
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.9 fc
 Type II - Short - N/A

REPORT NUMBER: P631764
CATALOG NUMBER: GWS-SA2B-735-U-SL3-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P631764

CATALOG NUMBER: GWS-SA2B-735-U-SL3-W-GRSWH

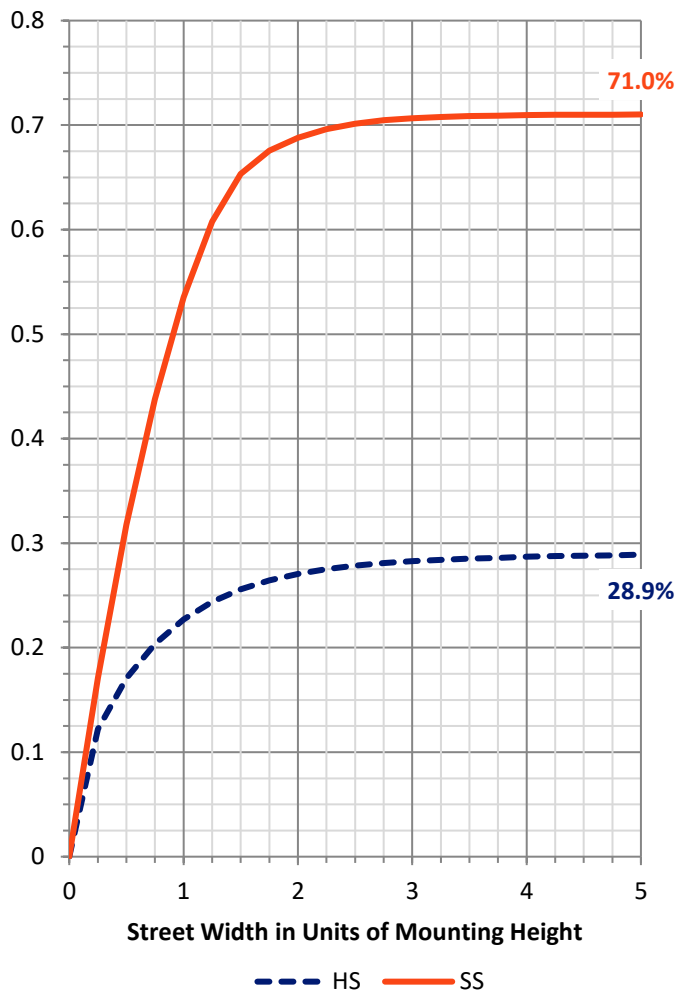
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1657.1	0.0	1657.1
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	4043.1	0.0	4043.1
	% Fixture	70.9	0.0	70.9
Total	Lumens	5700.2	0.0	5700.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.4	3.4
10°-20°	459.0	8.1
20°-30°	635.2	11.1
30°-40°	882.6	15.5
40°-50°	1165.6	20.4
50°-60°	1385.2	24.3
60°-70°	767.4	13.5
70°-80°	191.1	3.4
80°-90°	21.7	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°	5700.2	100.0
0°-180°	5700.2	100.0

Coefficient of Utilization



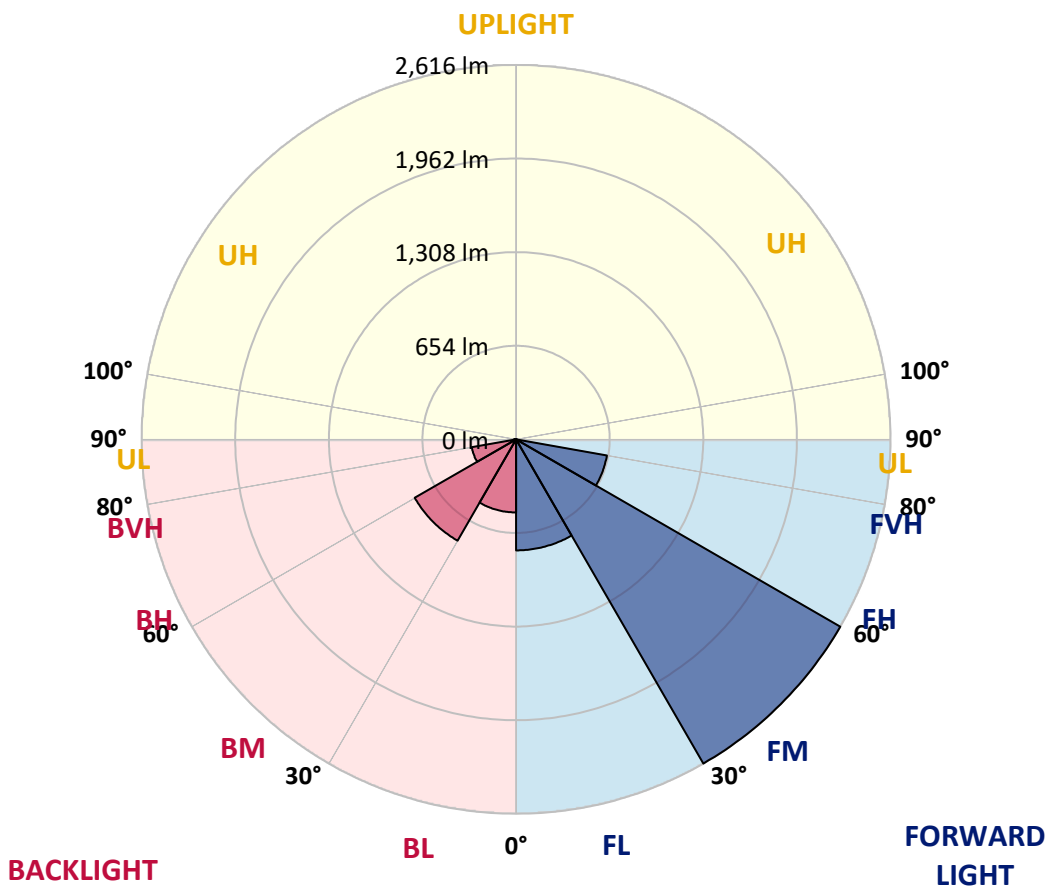
REPORT NUMBER: P631764

CATALOG NUMBER: GWS-SA2B-735-U-SL3-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	775.9	13.6			
FM (30°-60°)	2615.9	45.9			
FH (60°-80°)	644.5	11.3			G0/660
FVH (80°-90°)	6.8	0.1			G0/10
BL (0°-30°)	510.7	9.0	B2/1000		
BM (30°-60°)	817.5	14.3	B1/1000		
BH (60°-80°)	314.0	5.5	B1/500		G1/500
BVH (80°-90°)	14.9	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-G1
 Type II Short





REPORT NUMBER: P631764

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2188.4	2188.4	2188.4	2188.4	2188.4	2188.4	2188.4	2188.4	2188.4	2188.4	2188.4
2.5°	2147.4	2151.8	2154.8	2165.0	2173.8	2181.6	2189.9	2189.9	2189.4	2187.9	2185.0
5°	2062.5	2067.4	2074.3	2088.4	2107.4	2121.1	2143.5	2145.5	2155.3	2159.2	2157.2
7.5°	1964.0	1965.4	1974.2	1992.8	2023.0	2047.4	2079.6	2083.5	2106.9	2120.6	2118.2
10°	1856.1	1851.3	1866.9	1894.2	1933.7	1974.7	2016.2	2019.6	2057.2	2083.0	2081.1
12.5°	1757.6	1758.1	1773.7	1806.9	1856.1	1906.9	1962.5	1970.3	2016.7	2049.9	2046.4
15°	1675.1	1677.1	1696.1	1733.7	1789.8	1850.3	1919.6	1926.9	1985.5	2029.4	2019.6
17.5°	1609.2	1611.2	1627.8	1670.7	1730.7	1803.9	1888.3	1895.7	1968.4	2020.6	2000.6
20°	1563.9	1562.9	1579.0	1620.0	1681.9	1761.5	1861.0	1871.8	1963.0	2024.0	1987.9
22.5°	1545.3	1544.8	1556.5	1590.2	1648.3	1728.8	1844.4	1859.1	1968.9	2039.1	1980.1
25°	1554.6	1552.6	1562.9	1587.8	1634.1	1716.1	1849.3	1864.9	1993.7	2070.4	1981.5
27.5°	1583.4	1580.9	1589.7	1612.2	1647.3	1729.3	1883.5	1901.5	2046.4	2127.4	2001.1
30°	1627.3	1625.8	1634.6	1656.1	1686.8	1773.2	1948.9	1969.3	2127.9	2216.2	2043.5
32.5°	1678.5	1676.1	1691.7	1716.6	1752.2	1853.2	2036.7	2063.5	2224.5	2330.4	2114.8
35°	1736.1	1734.2	1755.6	1791.7	1843.0	1964.5	2143.1	2172.3	2323.1	2459.7	2209.4
37.5°	1792.2	1792.2	1833.7	1887.4	1951.8	2085.5	2243.1	2261.6	2391.4	2574.4	2310.9
40°	1842.0	1844.9	1907.4	1987.9	2069.9	2194.8	2309.0	2324.6	2421.7	2653.4	2399.2
42.5°	1897.1	1899.6	1972.3	2077.7	2175.3	2283.1	2349.0	2356.8	2427.5	2693.0	2461.7
45°	1941.0	1944.5	2034.7	2147.4	2267.0	2349.5	2380.7	2387.5	2435.8	2714.4	2507.1
47.5°	1964.0	1968.9	2072.3	2203.6	2329.0	2409.0	2432.9	2435.8	2470.0	2752.0	2561.7
50°	1960.1	1969.8	2086.5	2231.4	2374.8	2469.0	2516.8	2521.7	2539.8	2807.2	2625.6
52.5°	1994.7	1999.1	2116.7	2264.6	2440.2	2579.8	2662.7	2669.6	2661.3	2848.6	2663.7
55°	1937.1	1958.1	2079.1	2259.7	2539.8	2751.0	2878.9	2875.5	2771.5	2895.0	2727.1
57.5°	1566.8	1597.5	1708.3	1918.1	2375.8	2871.1	3040.4	3032.1	2856.9	2930.6	2795.9
60°	1084.7	1089.6	1189.6	1338.4	1833.7	2536.3	2993.1	3011.1	2872.5	2885.7	2668.6
62.5°	867.6	866.1	875.4	879.3	1166.2	1783.0	2362.6	2428.5	2386.5	2248.5	1891.3
65°	740.7	746.1	773.4	759.2	761.2	1004.2	1411.6	1420.9	1391.6	1341.9	1000.3
67.5°	579.7	589.0	637.3	692.4	674.8	646.5	732.4	728.0	573.8	444.0	366.9
70°	363.0	368.9	420.6	543.6	587.5	530.9	470.9	468.9	307.4	252.8	277.2
72.5°	211.8	212.7	227.4	303.0	389.9	363.0	346.4	333.8	197.6	201.5	221.0
75°	116.6	116.6	116.1	130.8	153.7	136.1	131.7	128.3	132.2	149.8	164.4
77.5°	24.4	24.9	26.3	34.6	44.9	54.6	68.8	69.3	86.4	100.0	111.7
80°	11.2	11.7	14.6	18.5	23.9	31.7	42.0	42.5	52.2	62.9	70.8
82.5°	5.9	6.3	7.8	9.8	12.7	16.6	23.4	23.4	31.2	37.1	42.0
85°	2.0	2.0	2.9	3.9	5.4	6.8	9.3	9.3	13.7	18.1	21.0
87.5°	0.0	0.0	0.0	0.0	0.5	1.0	2.0	2.0	2.4	2.9	4.9
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°	2188.4	2188.4	2188.4	2188.4	2188.4	2188.4	2188.4	2188.4	2188.4	2188.4	2188.4
2.5°	2178.7	2163.6	2164.0	2167.0	2157.7	2143.5	2134.3	2122.6	2115.2	2113.8	2119.1
5°	2147.4	2129.9	2117.7	2105.0	2078.6	2047.4	2023.0	2003.0	1989.8	1985.0	1979.1
7.5°	2104.5	2081.6	2050.8	2015.2	1967.4	1911.8	1872.7	1836.1	1810.8	1803.4	1800.0
10°	2061.6	2028.4	1973.7	1907.4	1827.8	1752.7	1681.9	1627.8	1584.8	1560.5	1568.3
12.5°	2017.2	1976.2	1890.8	1788.8	1678.0	1564.8	1472.1	1382.4	1313.1	1278.4	1268.2
15°	1978.1	1922.5	1803.4	1665.4	1518.0	1375.5	1241.3	1106.7	1018.8	971.0	957.8
17.5°	1945.0	1872.7	1711.2	1539.5	1363.3	1160.3	995.4	870.5	810.5	784.1	782.2
20°	1912.3	1823.9	1620.0	1403.8	1184.7	957.3	810.0	751.4	730.0	720.7	720.2
22.5°	1883.0	1772.7	1523.9	1268.2	1007.1	804.6	723.6	698.3	692.4	692.4	691.4
25°	1858.1	1721.5	1425.3	1124.2	846.6	716.3	678.7	668.0	670.4	674.8	675.3
27.5°	1847.9	1681.5	1330.1	976.4	735.8	665.1	648.0	646.5	653.4	660.2	661.2
30°	1858.6	1654.1	1232.6	834.9	669.5	633.8	626.0	629.0	637.3	644.1	644.1
32.5°	1891.8	1640.5	1133.0	731.4	630.9	611.9	609.4	612.4	618.7	622.6	623.1
35°	1947.9	1645.8	1030.1	661.7	606.0	595.8	595.3	597.2	599.7	602.1	602.6
37.5°	2018.6	1669.8	919.8	621.2	589.9	584.1	583.1	582.6	583.1	583.1	583.6
40°	2087.9	1705.9	821.2	597.2	578.7	573.8	571.4	568.0	567.5	566.5	566.0
42.5°	2139.2	1733.7	742.7	580.2	568.5	562.6	559.7	554.3	553.8	553.3	552.8
45°	2177.7	1757.1	677.3	563.6	557.7	552.4	546.0	541.1	542.1	543.1	543.1
47.5°	2221.1	1777.6	629.4	548.0	544.5	539.2	531.4	528.0	531.4	534.8	534.8
50°	2273.8	1806.4	590.4	532.3	530.9	524.5	517.7	516.2	520.2	525.0	525.0
52.5°	2312.4	1831.3	562.6	516.7	516.7	508.4	502.6	502.1	506.5	511.4	511.9
55°	2384.6	1889.3	552.8	498.7	496.7	490.4	486.0	482.6	487.9	492.3	492.3
57.5°	2466.1	1966.4	555.3	472.8	470.4	468.4	465.0	461.1	462.6	467.5	467.9
60°	2293.3	1817.1	528.4	447.0	445.5	444.5	440.1	433.3	435.2	439.2	439.6
62.5°	1601.9	1207.7	427.4	414.8	419.6	419.1	413.3	405.5	406.0	411.3	411.3
65°	831.5	653.4	375.2	385.5	392.8	389.9	380.1	373.3	372.3	379.1	377.7
67.5°	358.6	356.7	341.6	354.7	362.5	356.2	346.0	334.7	335.7	338.1	336.2
70°	288.9	297.6	304.0	318.1	324.5	312.8	301.6	295.2	289.8	289.4	285.9
72.5°	230.8	243.0	257.1	271.8	273.7	262.0	247.9	242.0	233.7	233.2	229.8
75°	173.7	184.0	195.2	206.9	206.9	195.7	186.4	183.5	173.7	170.8	167.9
77.5°	118.6	124.9	133.7	136.6	139.6	135.2	125.9	121.0	109.8	106.9	103.0
80°	74.7	79.0	84.4	86.4	89.3	83.9	76.6	71.2	63.4	61.0	59.0
82.5°	44.9	47.8	51.2	52.2	54.6	50.7	43.9	40.0	35.6	33.7	32.2
85°	22.9	24.4	26.3	26.8	26.3	22.4	20.0	18.1	15.1	14.6	13.7
87.5°	5.9	6.8	7.3	6.8	6.3	4.9	3.4	2.4	1.0	1.0	0.5
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)