

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: P631815

Luminaire Tested: GWS-SA2B-740-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631815
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-740-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5877.9 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

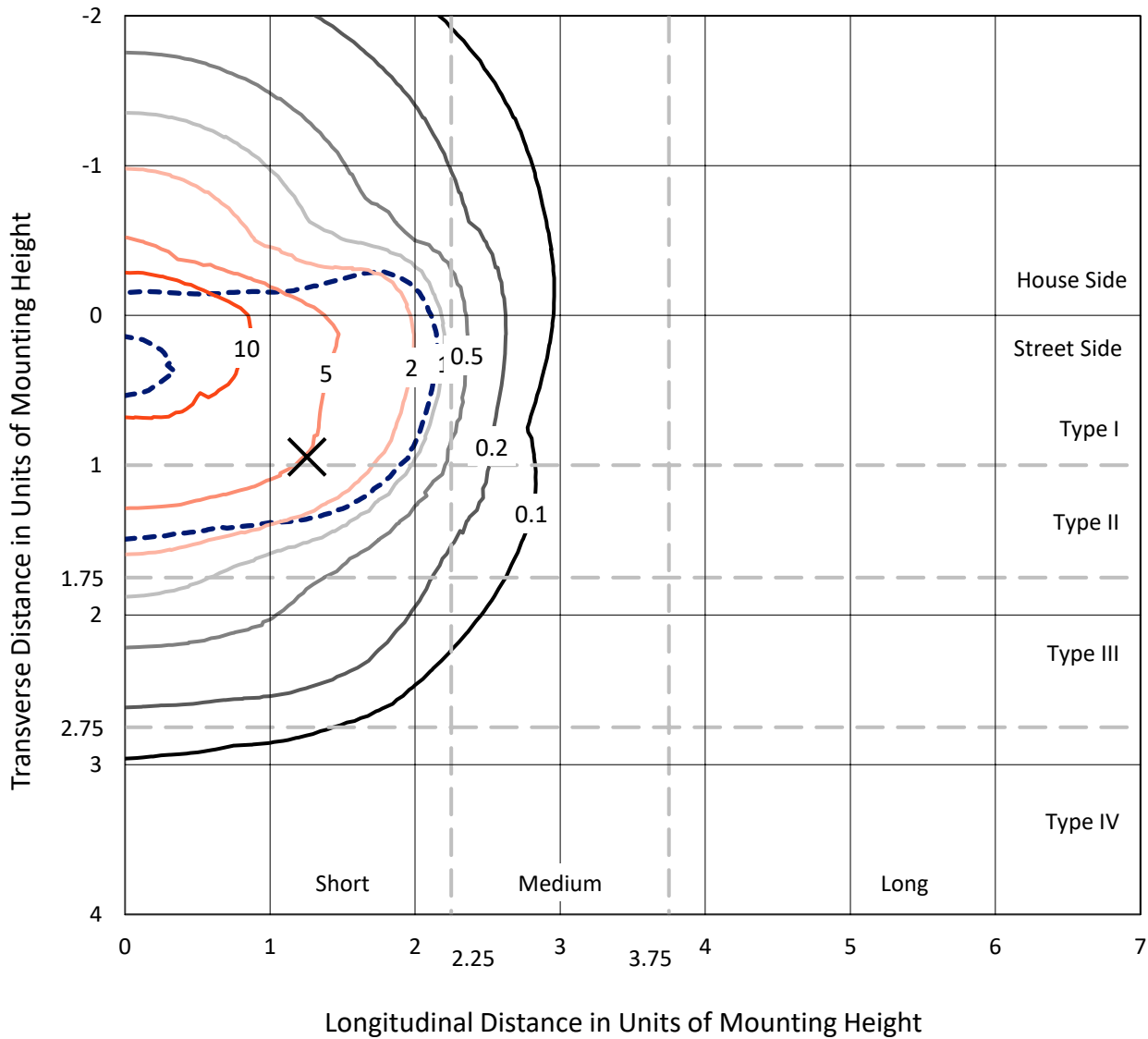
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

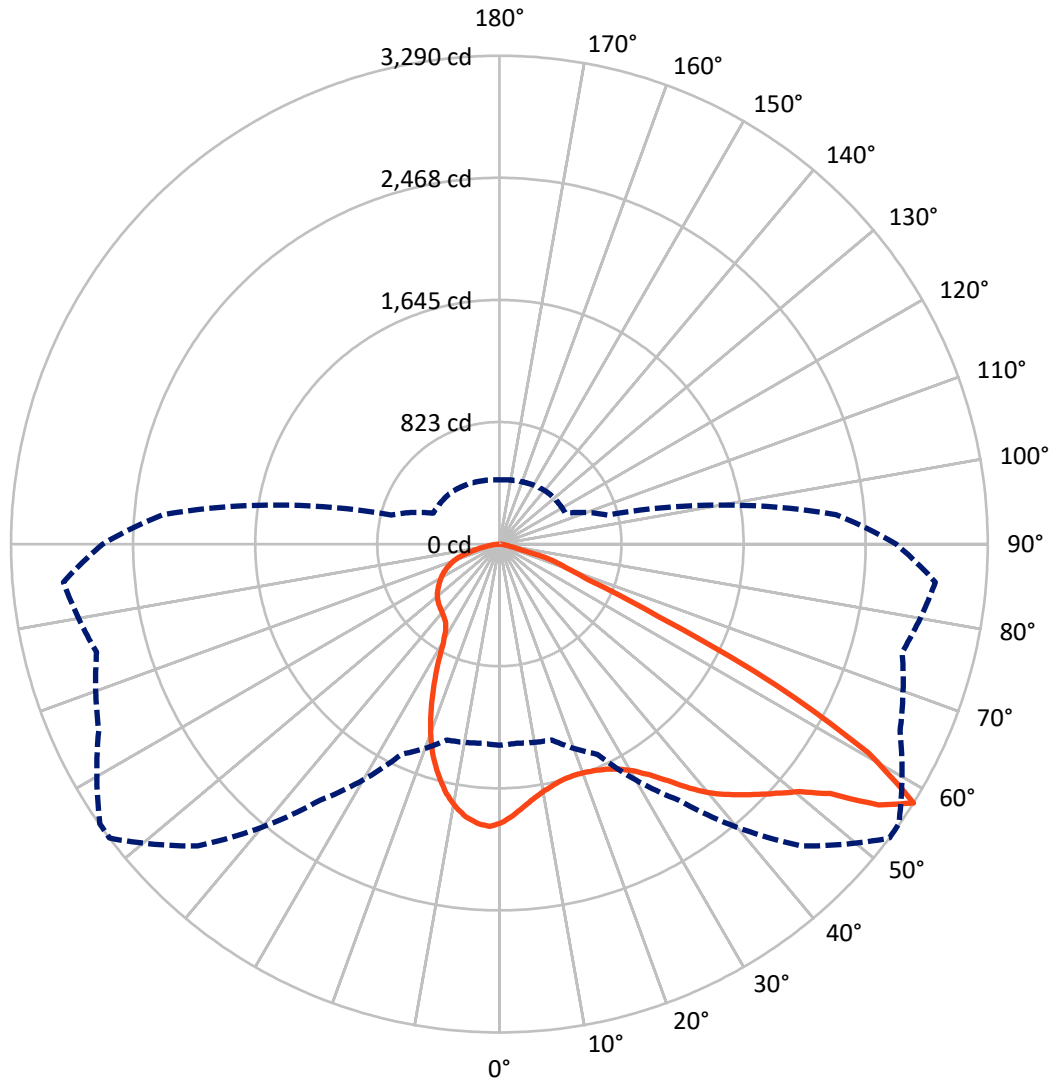
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical



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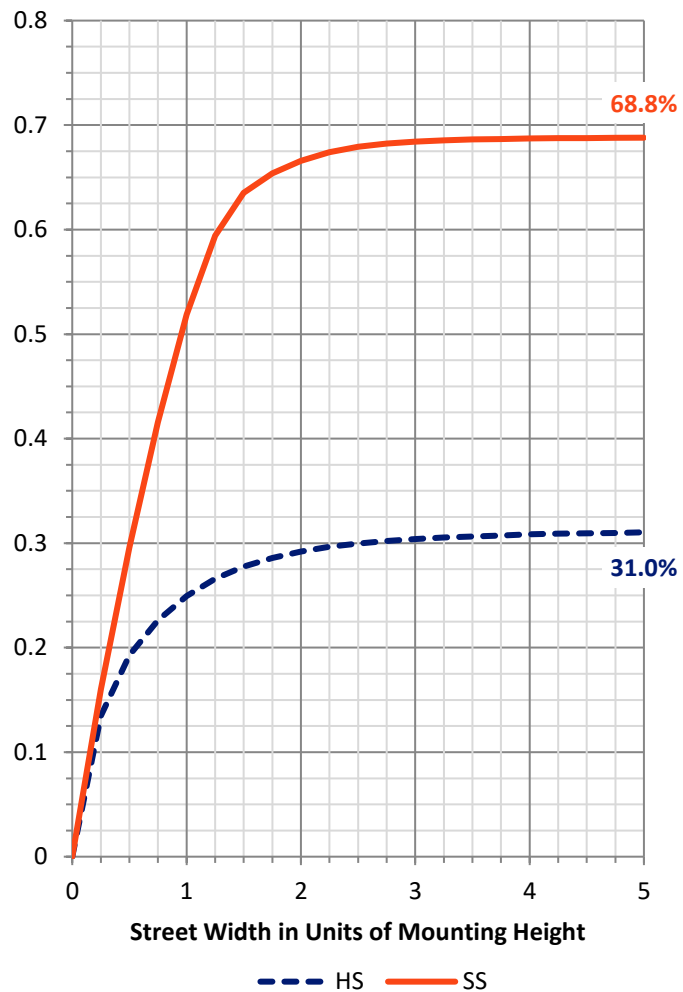
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1837.8	0.0	1837.8
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	4040.1	0.0	4040.1
	% Fixture	68.7	0.0	68.7
Total	Lumens	5877.9	0.0	5877.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.7	2.9
10°-20°	445.3	7.6
20°-30°	656.1	11.2
30°-40°	918.4	15.6
40°-50°	1207.3	20.5
50°-60°	1415.5	24.1
60°-70°	833.9	14.2
70°-80°	207.4	3.5
80°-90°	24.3	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°	5877.9	100.0
0°-180°	5877.9	100.0

Coefficient of Utilization



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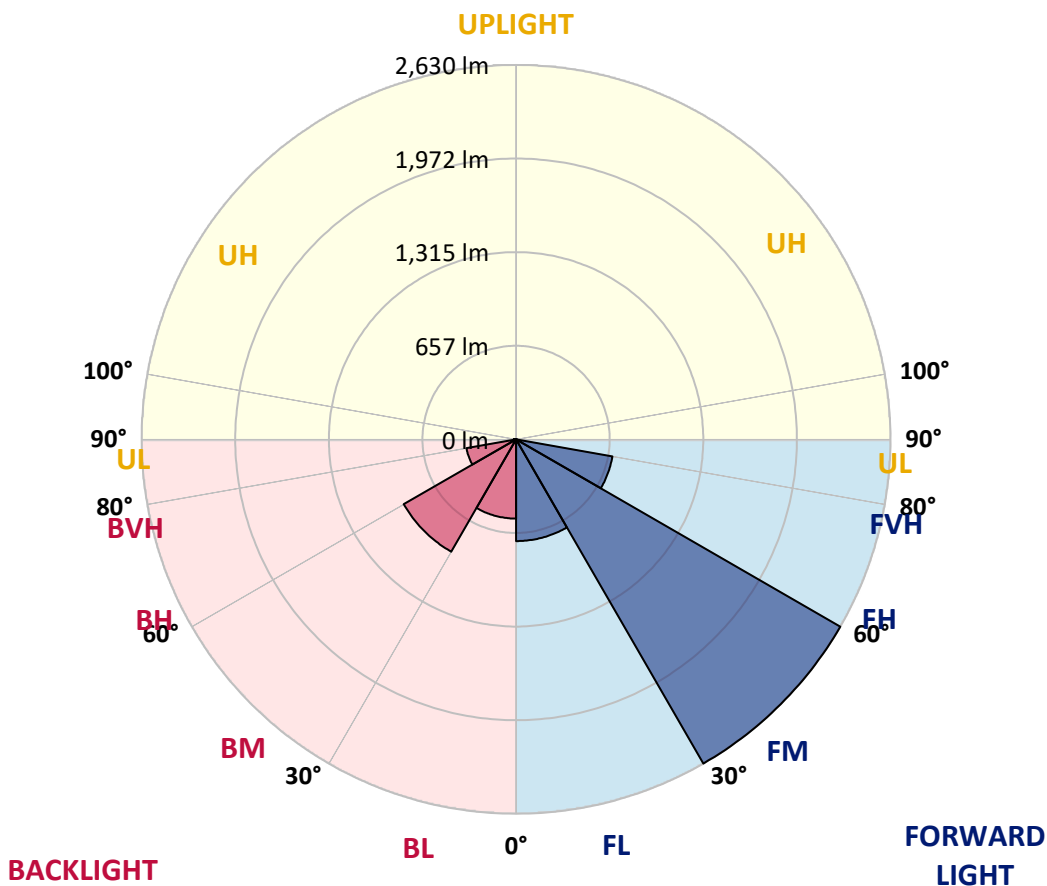
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	714.6	12.2			
FM (30°-60°)	2629.8	44.7			
FH (60°-80°)	687.5	11.7			G1/1800
FVH (80°-90°)	8.1	0.1			G0/10
BL (0°-30°)	556.5	9.5	B2/1000		
BM (30°-60°)	911.3	15.5	B1/1000		
BH (60°-80°)	353.8	6.0	B1/500		G1/500
BVH (80°-90°)	16.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1877.0	1877.0	1877.0	1877.0	1877.0	1877.0	1877.0	1877.0	1877.0	1877.0	1877.0
2.5°	1769.1	1774.1	1775.1	1790.4	1791.4	1813.6	1828.5	1825.5	1840.9	1859.7	1874.5
5°	1684.5	1685.0	1690.0	1708.3	1718.2	1747.4	1772.1	1772.1	1801.8	1840.4	1873.5
7.5°	1614.8	1614.3	1618.7	1639.0	1655.3	1690.5	1724.1	1728.1	1769.6	1826.0	1879.9
10°	1550.0	1553.4	1558.4	1583.1	1603.9	1647.4	1687.5	1693.9	1746.4	1816.1	1888.8
12.5°	1508.4	1508.9	1516.3	1544.0	1570.7	1617.2	1659.3	1667.2	1727.6	1806.7	1895.3
15°	1481.7	1482.2	1490.1	1520.8	1551.9	1598.9	1642.0	1650.9	1716.7	1805.2	1907.6
17.5°	1469.8	1469.3	1476.7	1507.4	1541.6	1590.5	1636.5	1647.4	1721.6	1816.6	1929.4
20°	1469.8	1470.3	1474.3	1502.0	1536.6	1588.5	1642.0	1655.3	1740.9	1842.3	1963.1
22.5°	1490.6	1492.6	1494.6	1513.4	1540.6	1591.5	1656.3	1674.1	1782.5	1885.4	2007.1
25°	1531.2	1531.7	1533.6	1549.0	1561.3	1599.9	1680.1	1706.8	1847.3	1948.2	2062.5
27.5°	1585.6	1592.5	1594.5	1604.4	1604.4	1620.7	1717.2	1755.8	1934.9	2038.7	2133.2
30°	1661.8	1664.2	1667.7	1678.6	1666.7	1659.8	1771.6	1821.1	2036.3	2148.1	2218.3
32.5°	1728.6	1734.0	1752.8	1770.6	1749.3	1727.6	1851.7	1910.1	2133.7	2261.9	2308.9
35°	1785.4	1798.8	1834.9	1874.5	1859.7	1837.9	1958.1	2019.0	2213.9	2343.5	2389.0
37.5°	1854.2	1864.6	1914.1	1978.4	1991.7	1981.4	2087.7	2131.3	2267.3	2364.3	2432.5
40°	1924.0	1939.8	2003.6	2092.7	2143.6	2151.0	2207.4	2236.6	2285.6	2323.7	2424.1
42.5°	1995.2	2022.4	2110.0	2213.9	2304.4	2321.2	2308.4	2320.7	2279.7	2267.8	2385.1
45°	2082.3	2114.4	2213.4	2346.0	2465.2	2491.4	2407.3	2395.9	2278.7	2246.5	2360.8
47.5°	2185.2	2217.3	2311.8	2466.2	2618.6	2637.9	2508.7	2488.0	2313.3	2279.2	2393.5
50°	2276.2	2298.5	2383.1	2555.7	2761.5	2772.9	2620.5	2595.3	2399.4	2369.7	2495.4
52.5°	2183.7	2181.2	2270.3	2483.0	2835.7	2972.8	2792.7	2768.5	2565.6	2520.1	2653.2
55°	1852.7	1824.5	1904.2	2113.4	2628.5	3150.4	3101.4	3052.9	2787.3	2671.5	2801.1
57.5°	1354.5	1346.6	1365.9	1562.3	2105.5	2875.3	3290.4	3285.9	2978.7	2810.0	2948.5
60°	1059.2	1047.3	995.9	1001.3	1435.2	2246.0	2855.5	2986.6	3097.4	2893.1	3051.4
62.5°	940.5	931.6	904.8	831.1	854.9	1505.9	2093.2	2213.4	2706.6	2555.2	2621.0
65°	778.7	776.2	798.5	795.5	716.4	831.6	1181.4	1302.6	1701.8	1723.1	1701.8
67.5°	566.0	561.5	617.9	729.2	689.6	627.8	658.5	700.5	872.7	783.6	705.5
70°	368.1	361.6	394.3	526.9	617.4	547.2	474.4	467.5	479.9	298.3	322.6
72.5°	246.9	239.4	239.0	289.9	373.0	368.6	367.6	364.1	325.0	235.5	261.2
75°	137.5	131.6	130.1	125.2	133.6	136.0	145.0	149.9	162.3	178.6	197.9
77.5°	23.3	22.8	28.7	36.6	50.5	64.8	80.1	84.6	104.4	123.7	136.0
80°	12.9	13.4	17.3	21.3	28.2	38.6	49.5	52.4	64.3	74.7	84.6
82.5°	6.9	6.9	8.9	11.4	15.3	20.3	26.7	29.2	37.1	43.5	50.5
85°	2.5	2.5	3.5	4.5	6.4	8.4	10.4	11.9	16.3	22.3	25.2
87.5°	0.0	0.0	0.0	0.0	0.5	1.0	2.0	2.0	2.5	4.5	6.4
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°	1877.0	1877.0	1877.0	1877.0	1877.0	1877.0	1877.0	1877.0	1877.0	1877.0	1877.0
2.5°	1886.9	1873.5	1891.8	1900.2	1903.2	1905.2	1892.3	1883.4	1880.4	1871.0	1865.6
5°	1893.8	1884.9	1902.2	1902.2	1889.8	1877.0	1850.8	1832.4	1819.6	1804.2	1801.8
7.5°	1905.7	1899.2	1908.6	1889.3	1858.2	1823.5	1778.0	1742.4	1713.7	1694.9	1695.4
10°	1921.5	1913.6	1906.2	1863.1	1806.2	1742.4	1672.7	1620.7	1573.2	1551.4	1539.6
12.5°	1931.9	1920.5	1889.3	1818.1	1734.5	1648.9	1550.5	1473.3	1404.5	1373.3	1370.9
15°	1944.7	1924.0	1861.6	1759.7	1643.5	1526.7	1400.1	1292.7	1199.7	1151.2	1148.7
17.5°	1961.6	1927.4	1828.5	1692.9	1547.5	1375.3	1216.0	1081.0	982.0	944.4	950.9
20°	1985.3	1931.4	1790.9	1618.7	1428.3	1203.2	1004.8	880.6	842.5	840.0	835.1
22.5°	2012.0	1933.9	1749.3	1535.6	1283.8	1019.6	830.1	777.2	776.7	789.1	792.0
25°	2042.2	1935.8	1702.3	1438.6	1127.5	836.6	734.2	718.3	730.7	754.0	756.9
27.5°	2080.8	1939.8	1645.4	1332.3	961.2	722.8	681.2	677.3	692.1	713.9	712.9
30°	2137.7	1954.1	1585.1	1210.1	790.6	668.9	649.1	649.6	655.5	665.9	667.4
32.5°	2195.6	1976.4	1526.2	1072.6	692.6	638.2	629.3	628.3	628.3	632.7	633.7
35°	2250.5	2001.6	1462.4	929.1	645.1	620.4	614.4	611.5	610.0	609.0	607.5
37.5°	2281.2	2014.0	1400.1	787.6	619.9	608.5	602.6	598.6	593.2	589.2	588.2
40°	2267.8	1999.7	1327.8	681.7	604.5	597.1	590.2	584.8	577.3	573.9	571.9
42.5°	2223.3	1955.1	1249.2	631.8	592.2	584.8	576.4	567.4	562.5	559.5	559.0
45°	2176.3	1901.2	1154.2	602.6	580.3	571.4	561.5	551.6	546.2	544.7	544.2
47.5°	2174.8	1874.5	1053.3	579.3	566.0	557.1	544.7	534.8	528.9	526.9	524.9
50°	2240.1	1901.7	939.5	559.0	551.1	541.7	527.9	517.0	509.6	507.1	506.6
52.5°	2375.7	2004.1	837.6	538.8	531.3	520.4	509.1	498.2	489.3	484.8	484.3
55°	2522.1	2134.2	774.2	518.0	508.1	498.7	488.3	476.4	466.5	459.6	458.6
57.5°	2673.5	2276.2	754.9	491.8	484.3	477.9	465.5	452.7	441.3	434.9	433.4
60°	2798.1	2398.4	791.1	464.0	460.1	451.7	440.3	427.9	420.0	415.1	414.1
62.5°	2342.5	1952.7	638.7	433.9	433.9	425.0	412.1	403.2	397.8	394.3	393.3
65°	1486.6	1209.1	435.8	403.7	403.2	391.3	380.4	374.5	372.0	366.6	365.6
67.5°	647.6	552.6	372.5	373.0	371.0	358.2	347.3	342.8	337.9	332.0	331.5
70°	335.9	342.3	333.4	338.9	335.4	320.1	309.7	302.8	292.4	286.4	286.9
72.5°	271.1	278.0	287.9	296.3	288.9	276.5	260.2	251.8	238.5	232.0	232.5
75°	206.8	214.2	223.6	232.5	226.6	211.2	200.9	192.4	177.1	169.7	171.2
77.5°	142.5	146.4	157.8	157.3	155.3	150.9	135.6	125.7	109.8	100.9	101.9
80°	88.6	91.0	96.5	98.9	98.0	92.0	79.7	72.2	62.8	57.4	57.9
82.5°	53.4	54.9	59.9	60.4	59.9	55.4	46.0	40.6	34.6	31.7	31.7
85°	27.2	28.2	31.2	31.2	28.2	23.7	21.3	18.8	15.3	13.9	13.9
87.5°	7.4	7.4	9.4	7.9	6.4	5.9	3.0	2.5	1.0	0.5	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)