

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: P633337

Luminaire Tested: GWS-SA2E-740-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633337
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-740-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14466 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

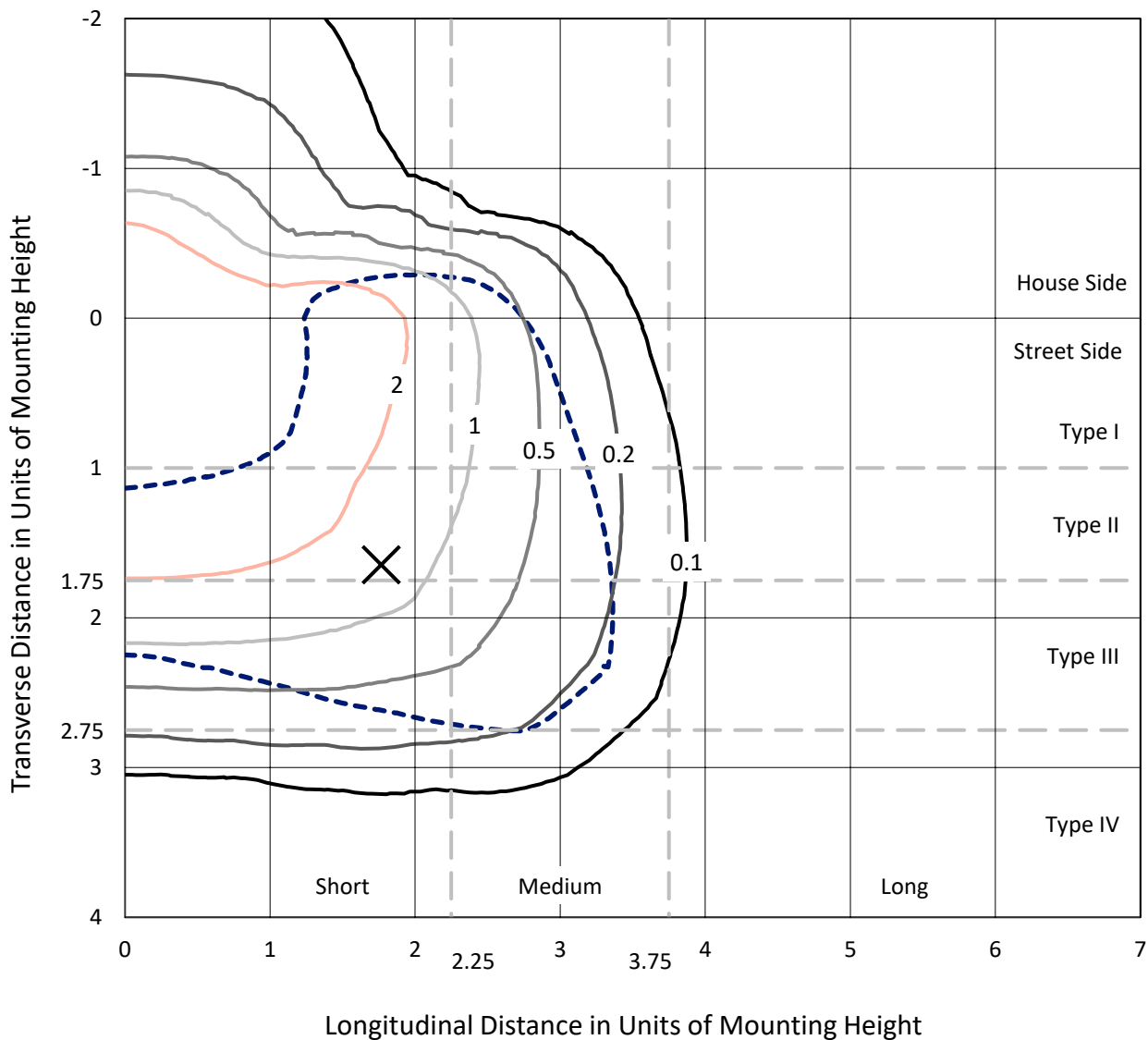
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

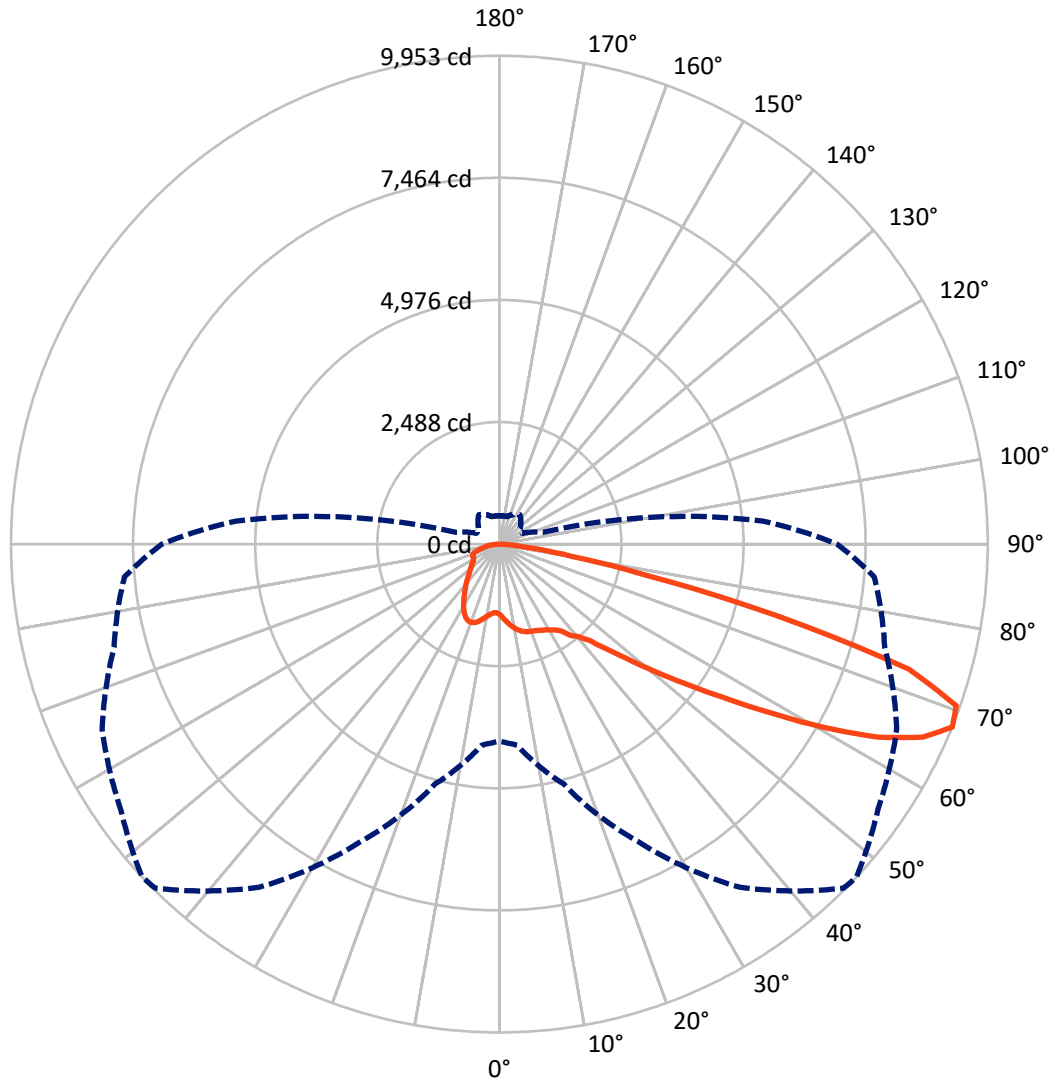
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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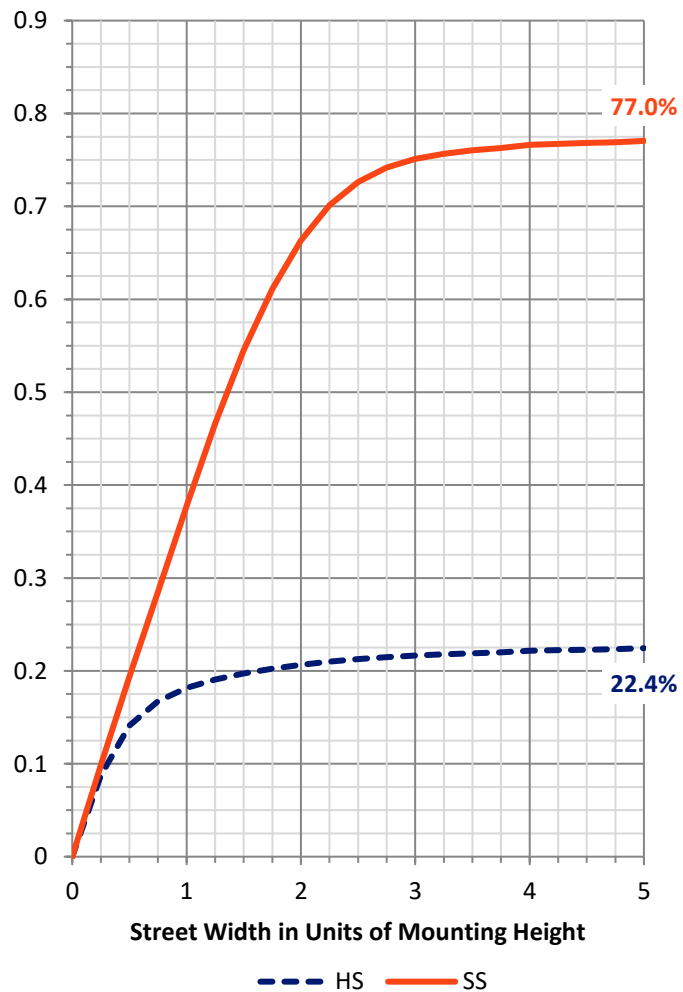
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3296.9	0.0	3296.9
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	11169.1	0.0	11169.1
	% Fixture	77.2	0.0	77.2
Total	Lumens	14466.0	0.0	14466.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.6	1.0
10°-20°	488.3	3.4
20°-30°	830.0	5.7
30°-40°	1215.8	8.4
40°-50°	1852.4	12.8
50°-60°	3314.4	22.9
60°-70°	4422.7	30.6
70°-80°	2000.0	13.8
80°-90°	195.9	1.4
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°	14466.0	100.0
0°-180°	14466.0	100.0

Coefficient of Utilization



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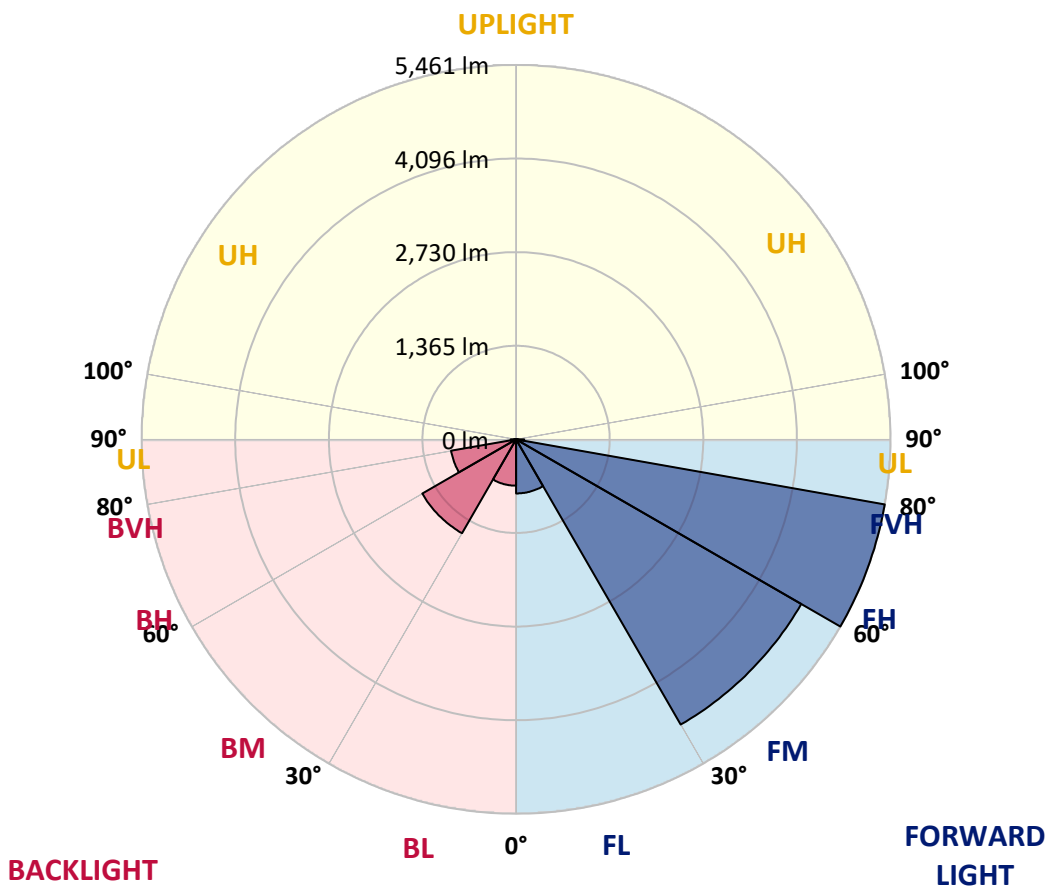
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	788.9	5.5			
FM (30°-60°)	4802.9	33.2			
FH (60°-80°)	5460.8	37.7			G3/7500
FVH (80°-90°)	116.6	0.8			G2/225
BL (0°-30°)	675.9	4.7	B2/1000		
BM (30°-60°)	1579.7	10.9	B2/2500		
BH (60°-80°)	961.9	6.6	B2/1000		G2/1000
BVH (80°-90°)	79.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1434.0	1434.0	1434.0	1434.0	1434.0	1434.0	1434.0	1434.0	1434.0	1434.0	1434.0
2.5°	1529.2	1534.5	1533.4	1525.0	1519.8	1510.4	1511.4	1496.8	1474.8	1460.2	1443.5
5°	1664.2	1672.5	1662.1	1648.5	1627.5	1597.2	1594.1	1560.6	1518.8	1489.5	1459.1
7.5°	1781.3	1786.5	1774.0	1751.0	1720.6	1679.8	1672.5	1632.8	1580.5	1534.5	1490.5
10°	1872.3	1878.6	1861.8	1831.5	1791.8	1751.0	1745.7	1704.9	1649.5	1595.1	1539.7
12.5°	1949.7	1951.8	1934.0	1893.2	1850.3	1808.5	1803.3	1765.6	1714.4	1658.9	1598.3
15°	1994.7	1995.7	1973.8	1928.8	1888.0	1851.4	1848.2	1815.8	1768.8	1716.5	1651.6
17.5°	1991.5	1993.6	1977.9	1938.2	1902.6	1880.7	1877.5	1856.6	1820.0	1772.9	1708.1
20°	1952.8	1954.9	1944.5	1918.3	1899.5	1893.2	1894.3	1888.0	1866.0	1827.3	1761.4
22.5°	1922.5	1925.6	1916.2	1897.4	1895.3	1910.0	1913.1	1916.2	1905.8	1871.3	1807.5
25°	1937.2	1942.4	1927.7	1901.6	1905.8	1938.2	1944.5	1954.9	1946.6	1917.3	1861.8
27.5°	2038.6	2041.8	2004.1	1950.8	1938.2	1972.7	1982.1	1998.9	1992.6	1965.4	1922.5
30°	2274.0	2271.9	2191.3	2060.6	2008.3	2021.9	2029.2	2053.3	2055.4	2037.6	1996.8
32.5°	2605.5	2595.1	2470.6	2262.5	2110.8	2077.3	2085.7	2118.1	2142.2	2123.3	2067.9
35°	2955.9	2946.5	2809.5	2565.8	2300.1	2184.0	2174.6	2199.7	2236.3	2184.0	2104.5
37.5°	3289.6	3275.0	3134.8	2833.6	2533.4	2371.2	2357.6	2332.5	2310.6	2210.2	2149.5
40°	3659.9	3643.1	3520.8	3179.8	2790.7	2514.5	2480.0	2380.7	2360.8	2297.0	2266.6
42.5°	4055.3	4055.3	3953.8	3618.0	3101.3	2719.5	2674.6	2525.0	2545.9	2504.1	2468.5
45°	4450.6	4462.2	4381.6	4059.4	3516.6	3106.6	3034.4	2822.1	2872.3	2853.4	2835.7
47.5°	4787.4	4809.4	4793.7	4510.3	4024.9	3577.3	3467.4	3246.7	3354.5	3399.4	3449.6
50°	5150.4	5174.5	5158.8	5046.9	4620.1	4147.3	4049.0	3821.0	4006.1	4141.0	4305.3
52.5°	5689.1	5723.6	5592.9	5550.0	5342.9	4794.8	4706.9	4447.5	4783.3	5007.1	5373.2
55°	6144.1	6143.0	6097.0	6195.3	6119.0	5586.6	5489.3	5254.0	5682.8	5920.2	6455.8
57.5°	6355.4	6380.5	6538.4	6816.7	6969.4	6554.1	6461.0	6220.4	6648.2	6771.7	7350.1
60°	6464.2	6495.5	6801.0	7351.1	7762.2	7610.5	7573.9	7267.5	7508.0	7493.4	8104.3
62.5°	6311.4	6374.2	6864.8	7595.9	8328.1	8672.2	8660.7	8197.3	8239.2	8095.9	8571.8
65°	5610.6	5678.6	6448.5	7473.5	8651.3	9479.7	9482.9	9039.4	8800.9	8388.8	8493.4
67.5°	4012.4	4109.7	5061.5	6686.9	8537.3	9915.9	9952.5	9421.1	8932.7	8129.4	7669.1
70°	2187.1	2258.3	3004.1	4860.7	7510.1	9811.3	9879.3	9237.0	8351.1	7032.1	5903.5
72.5°	993.7	1016.7	1397.4	2667.2	5130.5	8445.2	8729.7	8243.4	6858.5	5194.3	3754.0
75°	455.0	465.5	608.8	1276.1	2680.8	5651.4	5851.2	6139.9	4772.8	3280.2	1957.0
77.5°	285.6	288.7	346.2	583.7	1336.8	2821.0	3031.2	3655.7	2794.9	1623.4	818.0
80°	168.4	171.5	215.5	315.9	627.6	1290.7	1490.5	1445.5	1313.8	700.8	372.4
82.5°	84.7	87.9	124.5	179.9	342.0	513.6	604.6	607.7	489.5	379.7	210.2
85°	30.3	31.4	40.8	71.1	145.4	169.4	189.3	231.2	239.5	220.7	101.5
87.5°	0.0	0.0	1.0	2.1	4.2	16.7	17.8	33.5	70.1	78.4	40.8
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°	1434.0	1434.0	1434.0	1434.0	1434.0	1434.0	1434.0	1434.0	1434.0	1434.0	1434.0
2.5°	1438.2	1422.5	1417.3	1412.1	1403.7	1400.6	1394.3	1388.0	1388.0	1381.7	1378.6
5°	1445.5	1424.6	1411.0	1404.8	1399.5	1402.7	1402.7	1404.8	1412.1	1407.9	1410.0
7.5°	1471.7	1447.6	1428.8	1423.6	1423.6	1436.1	1444.5	1455.0	1468.6	1470.6	1470.6
10°	1517.7	1489.5	1469.6	1466.5	1471.7	1489.5	1502.0	1514.6	1531.3	1532.4	1534.5
12.5°	1567.9	1539.7	1519.8	1524.0	1529.2	1552.2	1565.8	1576.3	1593.0	1593.0	1592.0
15°	1620.2	1588.8	1572.1	1580.5	1596.2	1622.3	1624.4	1625.5	1633.8	1631.7	1630.7
17.5°	1674.6	1641.1	1628.6	1641.1	1657.9	1670.4	1660.0	1645.3	1642.2	1638.0	1635.9
20°	1728.0	1693.4	1688.2	1697.6	1702.9	1692.4	1660.0	1632.8	1620.2	1613.9	1611.9
22.5°	1774.0	1744.7	1741.6	1741.6	1715.4	1678.8	1630.7	1594.1	1577.3	1569.0	1566.9
25°	1828.4	1801.2	1795.9	1767.7	1700.8	1633.8	1569.0	1535.5	1521.9	1517.7	1518.8
27.5°	1892.2	1873.3	1856.6	1776.1	1658.9	1554.3	1481.1	1466.5	1461.2	1466.5	1469.6
30°	1970.6	1951.8	1914.1	1765.6	1592.0	1450.8	1380.7	1379.6	1395.3	1408.9	1411.0
32.5°	2034.4	2026.1	1964.4	1732.1	1497.8	1336.8	1277.1	1281.3	1309.6	1328.4	1331.5
35°	2084.6	2098.2	2006.2	1676.7	1385.9	1229.0	1182.0	1184.0	1199.7	1225.9	1226.9
37.5°	2155.8	2201.8	2043.8	1592.0	1257.3	1135.9	1093.0	1077.4	1075.3	1082.6	1084.7
40°	2299.1	2368.1	2071.0	1468.6	1132.8	1052.3	1004.1	973.8	947.7	927.8	921.5
42.5°	2515.6	2595.1	2086.7	1319.0	1021.9	969.6	915.2	876.5	830.5	788.7	774.0
45°	2913.1	2939.2	2086.7	1160.0	923.6	892.2	837.8	791.8	733.2	684.1	673.6
47.5°	3549.0	3465.3	2088.8	1006.2	836.8	824.2	777.2	724.9	660.0	619.2	612.9
50°	4507.1	4213.2	2131.7	878.6	764.6	766.7	732.2	674.7	616.1	585.7	580.5
52.5°	5592.9	5134.7	2246.8	784.5	703.9	719.6	700.8	645.4	593.1	566.9	561.7
55°	6613.7	5982.0	2345.1	717.5	652.7	679.9	678.8	627.6	580.5	554.4	551.2
57.5°	7481.9	6562.5	2330.4	663.2	608.8	643.3	659.0	616.1	572.2	550.2	547.0
60°	8021.6	6870.0	2122.3	612.9	575.3	617.1	647.5	612.9	576.3	571.1	572.2
62.5°	8255.9	6813.5	1722.7	575.3	553.3	604.6	660.0	634.9	615.0	627.6	634.9
65°	7891.9	6328.2	1267.7	547.0	532.4	607.7	689.3	669.4	615.0	623.4	626.5
67.5°	6881.5	5386.8	916.3	518.8	506.3	617.1	731.1	664.2	579.5	579.5	573.2
70°	4959.0	3874.3	665.2	490.6	480.1	603.5	733.2	628.6	538.7	535.5	519.9
72.5°	2984.2	2285.5	518.8	459.2	440.4	535.5	687.2	586.8	498.9	472.8	454.0
75°	1550.1	1145.3	435.1	424.7	377.6	454.0	628.6	521.9	426.8	403.7	393.3
77.5°	664.2	535.5	373.4	378.6	313.8	381.8	507.3	451.9	378.6	349.4	339.9
80°	327.4	304.4	295.0	303.3	251.0	295.0	437.2	395.4	321.1	287.6	274.0
82.5°	187.2	177.8	212.3	215.5	178.9	246.9	369.2	334.7	265.7	229.1	207.1
85°	86.8	93.1	128.7	129.7	110.9	169.4	241.6	188.3	141.2	117.1	111.9
87.5°	34.5	40.8	56.5	55.4	32.4	31.4	20.9	11.5	9.4	8.4	7.3
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)