

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: P639497

Luminaire Tested: GWS-SA5B-830-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639497  
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-SA5B-830-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (80) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

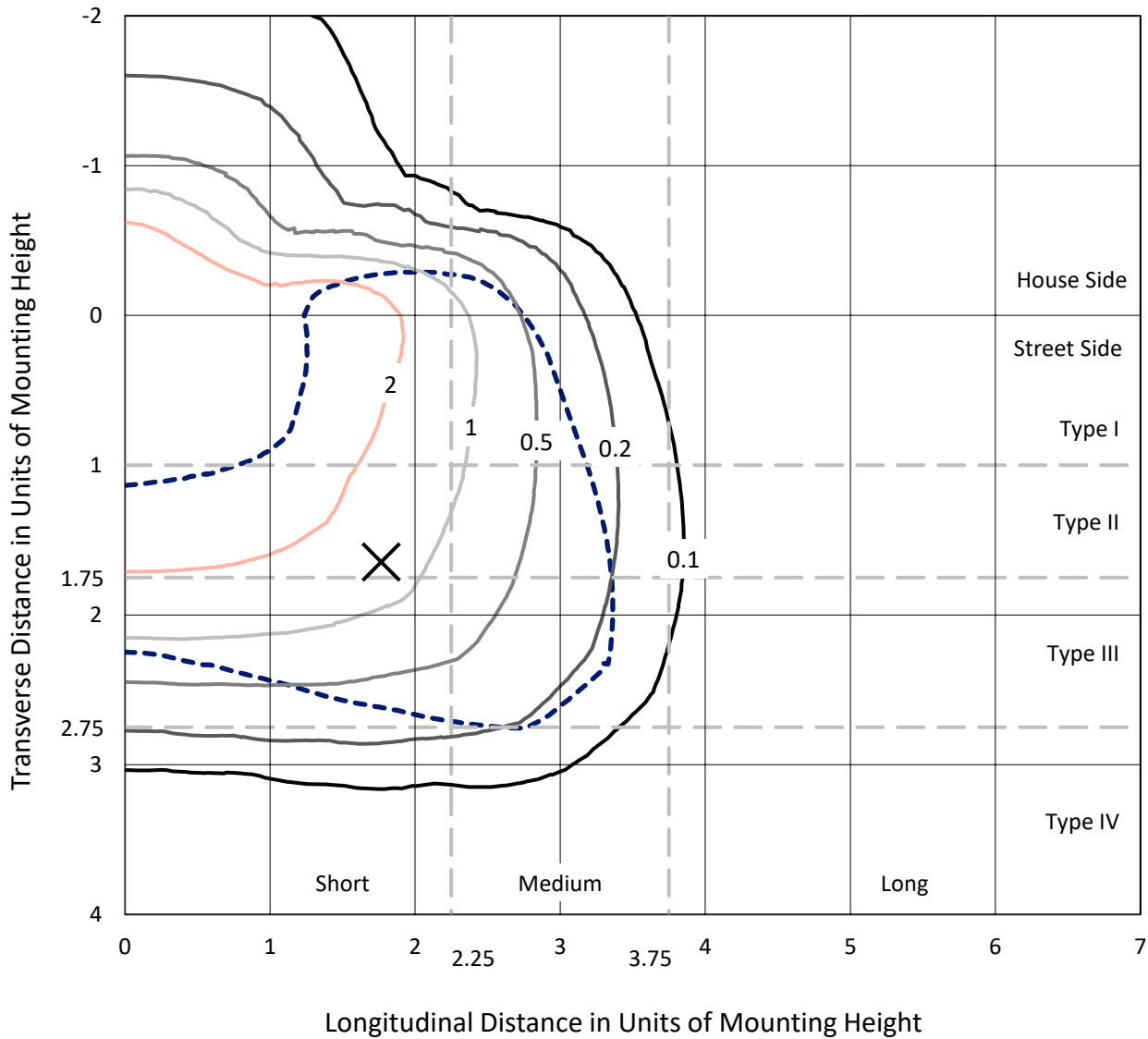
Lumens per Lamp: N/A  
Luminaire Lumens: 13984.2 lumens  
Efficiency: N/A  
Efficacy: 120.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

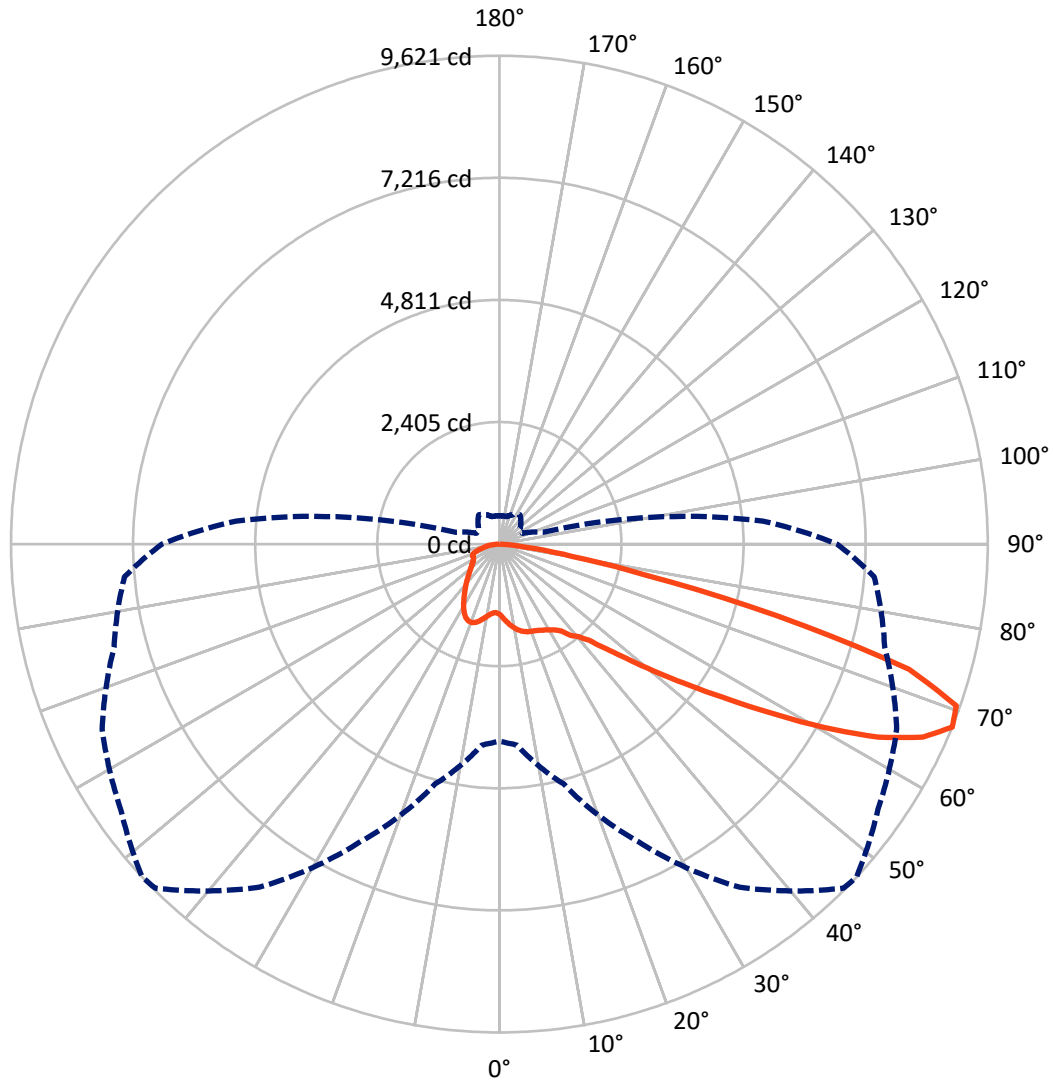
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 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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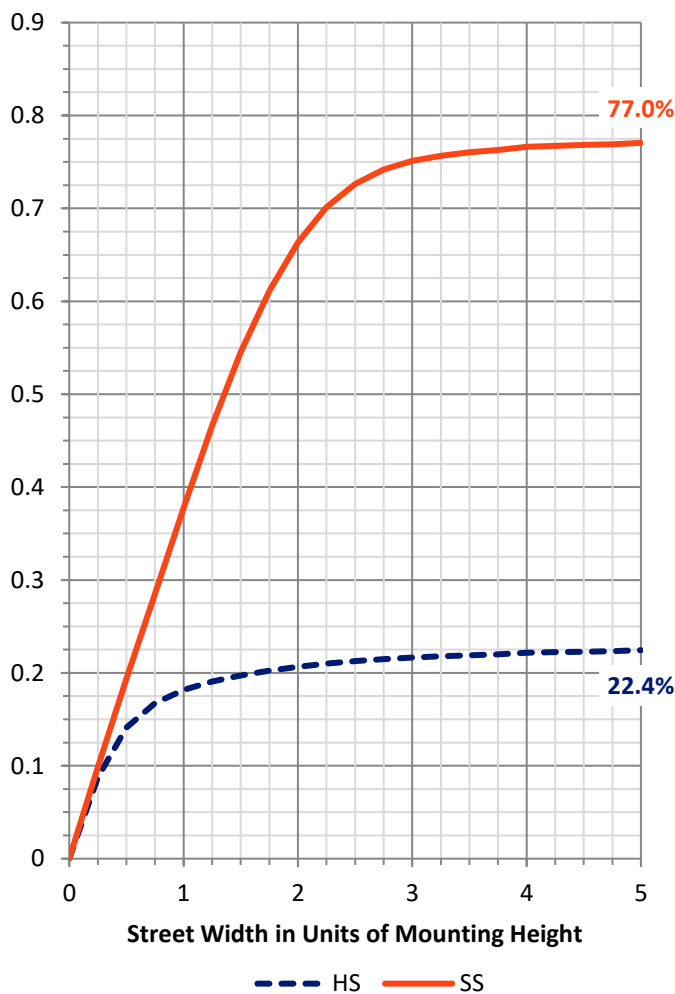
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3187.1	0.0	3187.1
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	10797.1	0.0	10797.1
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	13984.2	0.0	13984.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.7	1.0
10°-20°	472.0	3.4
20°-30°	802.3	5.7
30°-40°	1175.3	8.4
40°-50°	1790.7	12.8
50°-60°	3204.0	22.9
60°-70°	4275.4	30.6
70°-80°	1933.4	13.8
80°-90°	189.4	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°	13984.2	100.0
0°-180°	13984.2	100.0

**Coefficient of Utilization**



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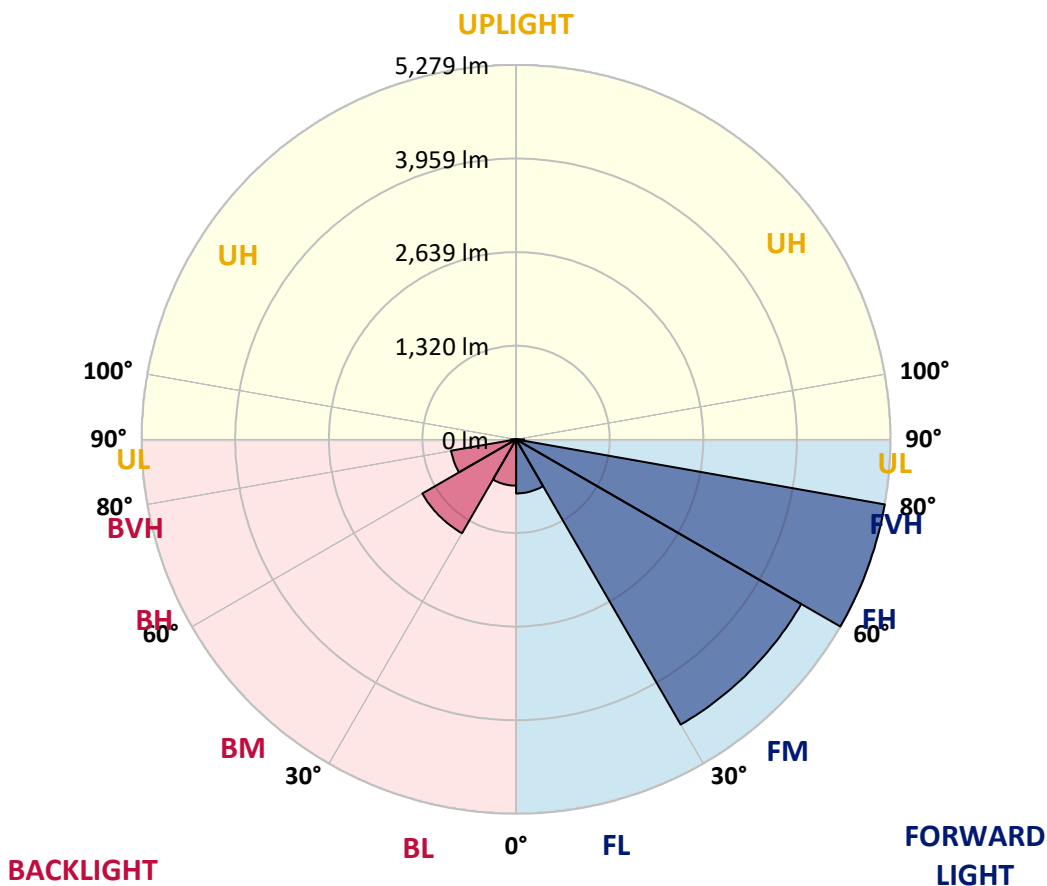
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	762.6	5.5			
FM (30°-60°)	4642.9	33.2			
FH (60°-80°)	5278.9	37.7			G3/7500
FVH (80°-90°)	112.7	0.8			G2/225
BL (0°-30°)	653.4	4.7	B2/1000		
BM (30°-60°)	1527.1	10.9	B2/2500		
BH (60°-80°)	929.9	6.6	B2/1000		G2/1000
BVH (80°-90°)	76.7	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°	1386.3	1386.3	1386.3	1386.3	1386.3	1386.3	1386.3	1386.3	1386.3	1386.3	1386.3
2.5°	1478.3	1483.3	1482.3	1474.2	1469.2	1460.1	1461.1	1446.9	1425.7	1411.6	1395.4
5°	1608.7	1616.8	1606.7	1593.6	1573.3	1544.0	1541.0	1508.6	1468.2	1439.9	1410.5
7.5°	1722.0	1727.0	1714.9	1692.7	1663.3	1623.9	1616.8	1578.4	1527.8	1483.3	1440.9
10°	1809.9	1816.0	1799.8	1770.5	1732.1	1692.7	1687.6	1648.2	1594.6	1542.0	1488.4
12.5°	1884.8	1886.8	1869.6	1830.2	1788.7	1748.3	1743.2	1706.8	1657.3	1603.7	1545.0
15°	1928.2	1929.3	1908.0	1864.5	1825.1	1789.7	1786.7	1755.3	1709.8	1659.3	1596.6
17.5°	1925.2	1927.2	1912.1	1873.6	1839.3	1818.0	1815.0	1794.8	1759.4	1713.9	1651.2
20°	1887.8	1889.8	1879.7	1854.4	1836.2	1830.2	1831.2	1825.1	1803.9	1766.5	1702.8
22.5°	1858.5	1861.5	1852.4	1834.2	1832.2	1846.3	1849.4	1852.4	1842.3	1808.9	1747.3
25°	1872.6	1877.7	1863.5	1838.3	1842.3	1873.6	1879.7	1889.8	1881.7	1853.4	1799.8
27.5°	1970.7	1973.8	1937.3	1885.8	1873.6	1907.0	1916.1	1932.3	1926.2	1899.9	1858.5
30°	2198.2	2196.2	2118.3	1992.0	1941.4	1954.5	1961.6	1984.9	1986.9	1969.7	1930.3
32.5°	2518.8	2508.6	2388.3	2187.1	2040.5	2008.1	2016.2	2047.6	2070.8	2052.6	1999.0
35°	2857.5	2848.4	2715.9	2480.3	2223.5	2111.3	2102.2	2126.4	2161.8	2111.3	2034.4
37.5°	3180.0	3165.9	3030.4	2739.2	2449.0	2292.3	2279.1	2254.8	2233.6	2136.5	2077.9
40°	3538.0	3521.8	3403.5	3073.9	2697.7	2430.8	2397.4	2301.4	2282.1	2220.5	2191.1
42.5°	3920.2	3920.2	3822.1	3497.5	2998.0	2629.0	2585.5	2440.9	2461.1	2420.7	2386.3
45°	4302.4	4313.5	4235.7	3924.2	3399.5	3003.1	2933.3	2728.1	2776.6	2758.4	2741.2
47.5°	4628.0	4649.2	4634.1	4360.0	3890.9	3458.1	3351.9	3138.6	3242.7	3286.2	3334.7
50°	4978.9	5002.1	4987.0	4878.8	4466.2	4009.2	3914.1	3693.7	3872.7	4003.1	4161.9
52.5°	5499.6	5533.0	5406.6	5365.1	5164.9	4635.1	4550.1	4299.4	4624.0	4840.3	5194.2
55°	5939.5	5938.4	5894.0	5989.0	5915.2	5400.5	5306.5	5079.0	5493.5	5723.1	6240.8
57.5°	6143.7	6168.0	6320.7	6589.6	6737.2	6335.8	6245.8	6013.3	6426.8	6546.1	7105.3
60°	6248.9	6279.2	6574.5	7106.3	7503.7	7357.1	7321.7	7025.4	7258.0	7243.8	7834.3
62.5°	6101.2	6161.9	6636.1	7342.9	8050.7	8383.4	8372.3	7924.3	7964.8	7826.2	8286.3
65°	5423.8	5489.5	6233.7	7224.6	8363.2	9164.0	9167.0	8738.3	8507.8	8109.4	8210.5
67.5°	3878.7	3972.8	4892.9	6464.2	8252.9	9585.6	9621.0	9107.4	8635.2	7858.6	7413.7
70°	2114.3	2183.1	2904.0	4698.8	7260.0	9484.5	9550.2	8929.4	8073.0	6797.9	5706.9
72.5°	960.6	982.8	1350.9	2578.4	4959.7	8164.0	8439.0	7968.8	6630.1	5021.3	3629.0
75°	439.8	450.0	588.5	1233.6	2591.6	5463.2	5656.3	5935.4	4613.8	3170.9	1891.8
77.5°	276.0	279.1	334.7	564.2	1292.2	2727.1	2930.3	3533.9	2701.8	1569.3	790.7
80°	162.8	165.8	208.3	305.4	606.7	1247.8	1440.9	1397.4	1270.0	677.5	360.0
82.5°	81.9	84.9	120.3	173.9	330.6	496.5	584.4	587.5	473.2	367.0	203.2
85°	29.3	30.3	39.4	68.8	140.5	163.8	183.0	223.5	231.6	213.4	98.1
87.5°	0.0	0.0	1.0	2.0	4.0	16.2	17.2	32.4	67.7	75.8	39.4
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°	1386.3	1386.3	1386.3	1386.3	1386.3	1386.3	1386.3	1386.3	1386.3	1386.3	1386.3
2.5°	1390.3	1375.2	1370.1	1365.0	1357.0	1353.9	1347.9	1341.8	1341.8	1335.7	1332.7
5°	1397.4	1377.2	1364.0	1358.0	1352.9	1355.9	1355.9	1358.0	1365.0	1361.0	1363.0
7.5°	1422.7	1399.4	1381.2	1376.2	1376.2	1388.3	1396.4	1406.5	1419.6	1421.7	1421.7
10°	1467.2	1439.9	1420.7	1417.6	1422.7	1439.9	1452.0	1464.1	1480.3	1481.3	1483.3
12.5°	1515.7	1488.4	1469.2	1473.2	1478.3	1500.5	1513.7	1523.8	1540.0	1540.0	1539.0
15°	1566.3	1535.9	1519.7	1527.8	1543.0	1568.3	1570.3	1571.3	1579.4	1577.4	1576.4
17.5°	1618.8	1586.5	1574.3	1586.5	1602.7	1614.8	1604.7	1590.5	1587.5	1583.4	1581.4
20°	1670.4	1637.0	1632.0	1641.1	1646.1	1636.0	1604.7	1578.4	1566.3	1560.2	1558.2
22.5°	1714.9	1686.6	1683.6	1683.6	1658.3	1622.9	1576.4	1541.0	1524.8	1516.7	1514.7
25°	1767.5	1741.2	1736.1	1708.8	1644.1	1579.4	1516.7	1484.4	1471.2	1467.2	1468.2
27.5°	1829.2	1811.0	1794.8	1716.9	1603.7	1502.6	1431.8	1417.6	1412.6	1417.6	1420.7
30°	1905.0	1886.8	1850.4	1706.8	1539.0	1402.5	1334.7	1333.7	1348.9	1362.0	1364.0
32.5°	1966.7	1958.6	1898.9	1674.5	1448.0	1292.2	1234.6	1238.6	1266.0	1284.2	1287.2
35°	2015.2	2028.4	1939.4	1620.9	1339.8	1188.1	1142.6	1144.6	1159.8	1185.1	1186.1
37.5°	2084.0	2128.5	1975.8	1539.0	1215.4	1098.1	1056.6	1041.5	1039.5	1046.5	1048.6
40°	2222.5	2289.2	2002.1	1419.6	1095.1	1017.2	970.7	941.4	916.1	896.9	890.8
42.5°	2431.8	2508.6	2017.2	1275.1	987.9	937.3	884.7	847.3	802.8	762.4	748.2
45°	2816.0	2841.3	2017.2	1121.4	892.8	862.5	809.9	765.4	708.8	661.3	651.2
47.5°	3430.8	3349.9	2019.3	972.7	808.9	796.8	751.3	700.7	638.0	598.6	592.5
50°	4357.0	4072.9	2060.7	849.4	739.1	741.2	707.8	652.2	595.6	566.2	561.2
52.5°	5406.6	4963.7	2171.9	758.4	680.5	695.7	677.5	623.9	573.3	548.0	543.0
55°	6393.5	5782.7	2267.0	693.6	631.0	657.2	656.2	606.7	561.2	535.9	532.9
57.5°	7232.7	6343.9	2252.8	641.1	588.5	621.9	637.0	595.6	553.1	531.9	528.8
60°	7754.5	6641.2	2051.6	592.5	556.1	596.6	625.9	592.5	557.1	552.1	553.1
62.5°	7981.0	6586.6	1665.4	556.1	534.9	584.4	638.0	613.8	594.6	606.7	613.8
65°	7629.1	6117.4	1225.5	528.8	514.7	587.5	666.3	647.1	594.6	602.6	605.7
67.5°	6652.3	5207.4	885.8	501.5	489.4	596.6	706.8	642.1	560.2	560.2	554.1
70°	4793.8	3745.3	643.1	474.2	464.1	583.4	708.8	607.7	520.7	517.7	502.5
72.5°	2884.8	2209.3	501.5	443.9	425.7	517.7	664.3	567.3	482.3	457.0	438.8
75°	1498.5	1107.2	420.6	410.5	365.0	438.8	607.7	504.6	412.5	390.3	380.2
77.5°	642.1	517.7	361.0	366.0	303.3	369.1	490.4	436.8	366.0	337.7	328.6
80°	316.5	294.2	285.1	293.2	242.7	285.1	422.7	382.2	310.4	278.1	264.9
82.5°	181.0	171.9	205.3	208.3	172.9	238.6	356.9	323.6	256.8	221.4	200.2
85°	83.9	90.0	124.4	125.4	107.2	163.8	233.6	182.0	136.5	113.2	108.2
87.5°	33.4	39.4	54.6	53.6	31.3	30.3	20.2	11.1	9.1	8.1	7.1
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)