

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: INVUE

Report Number: P677021

Luminaire Tested: **CCW-SA-1F-760-U-SL3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677021  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1F-760-U-SL3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/  
SL3 distribution lens and House Side Shield  
Light Source: (16) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6337.6 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

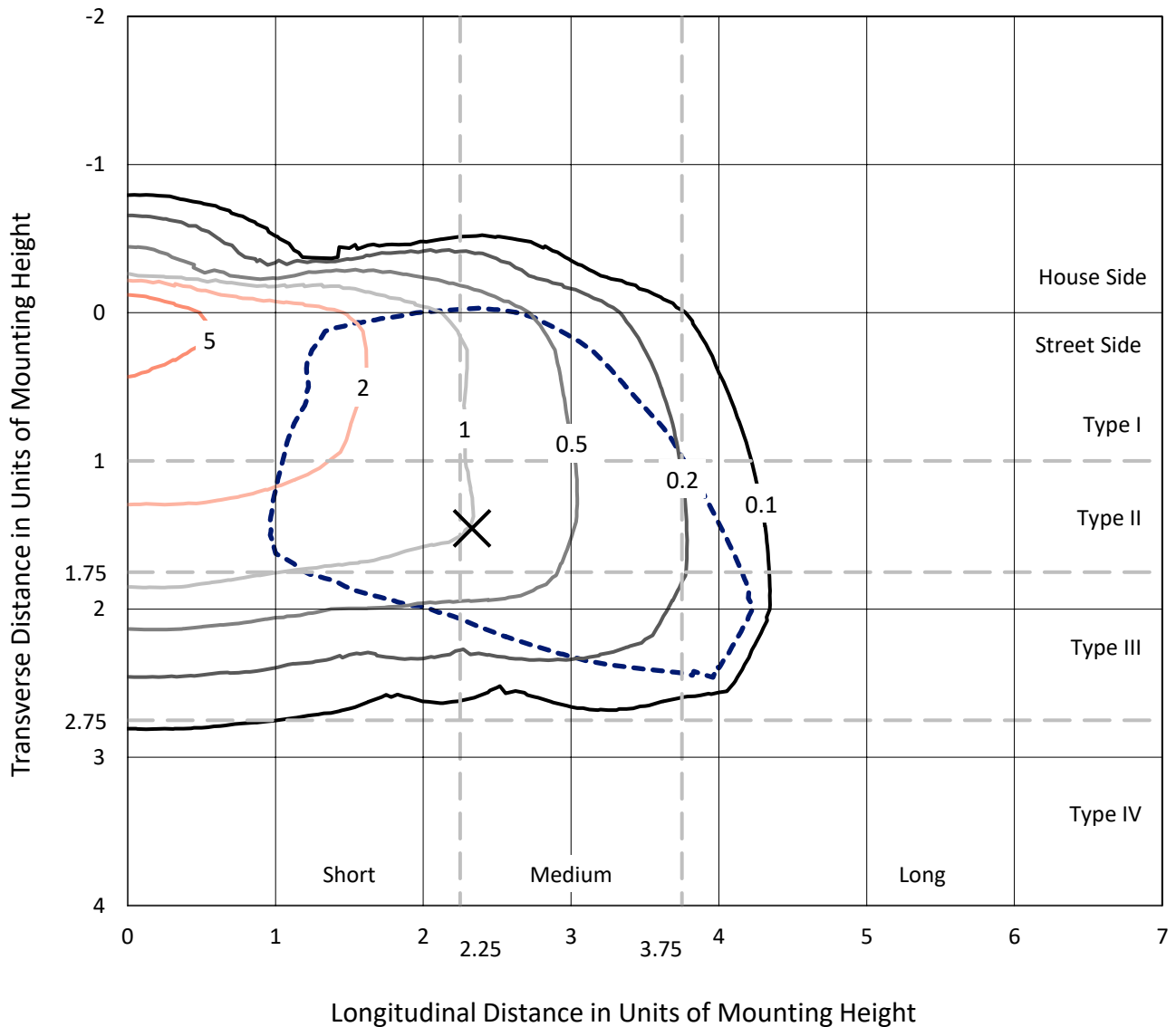
Input Watts (W): 67  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

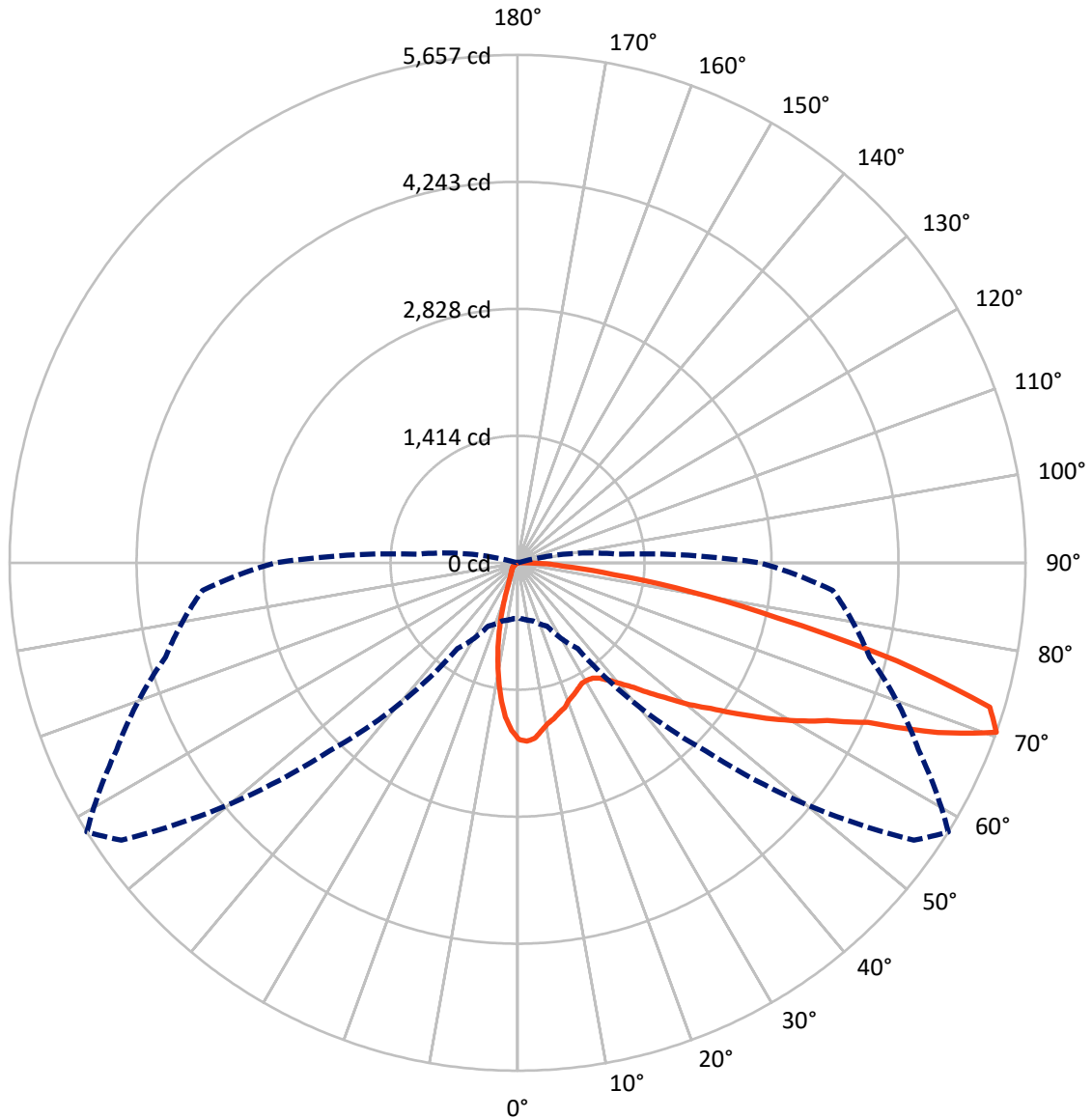
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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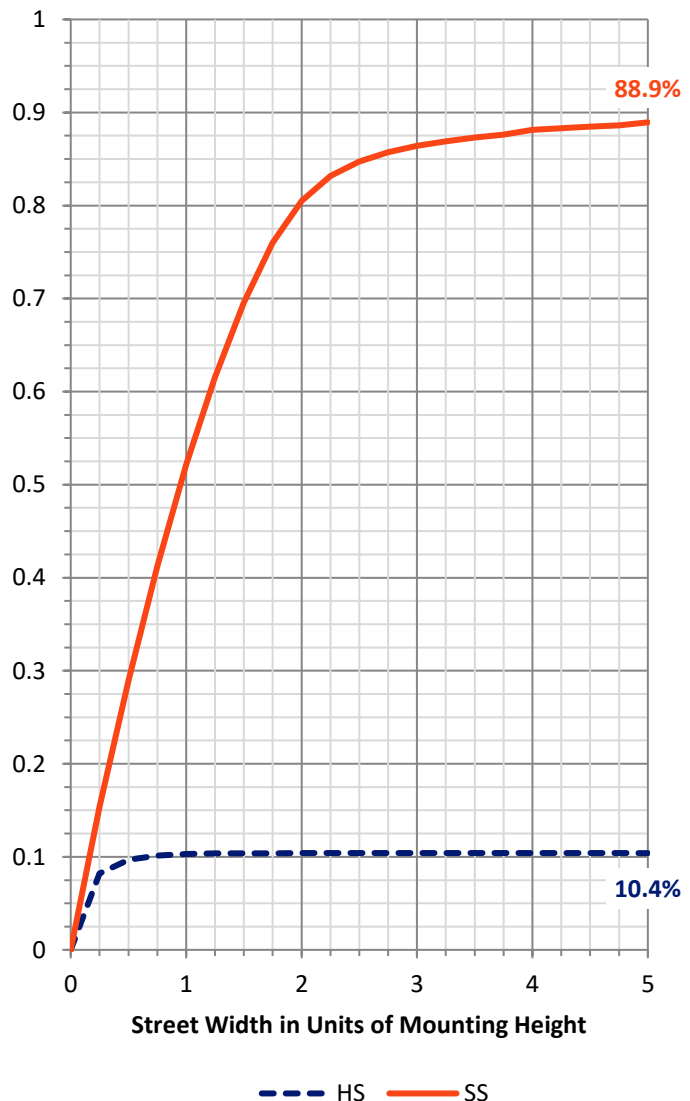
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	663.7	0.0	663.7
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	5673.9	0.0	5673.9
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	6337.6	0.0	6337.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.5	2.5
10°-20°	334.2	5.3
20°-30°	447.5	7.1
30°-40°	604.9	9.5
40°-50°	868.2	13.7
50°-60°	1279.4	20.2
60°-70°	1560.5	24.6
70°-80°	952.9	15.0
80°-90°	129.5	2.0
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°	6337.6	100.0
0°-180°	6337.6	100.0

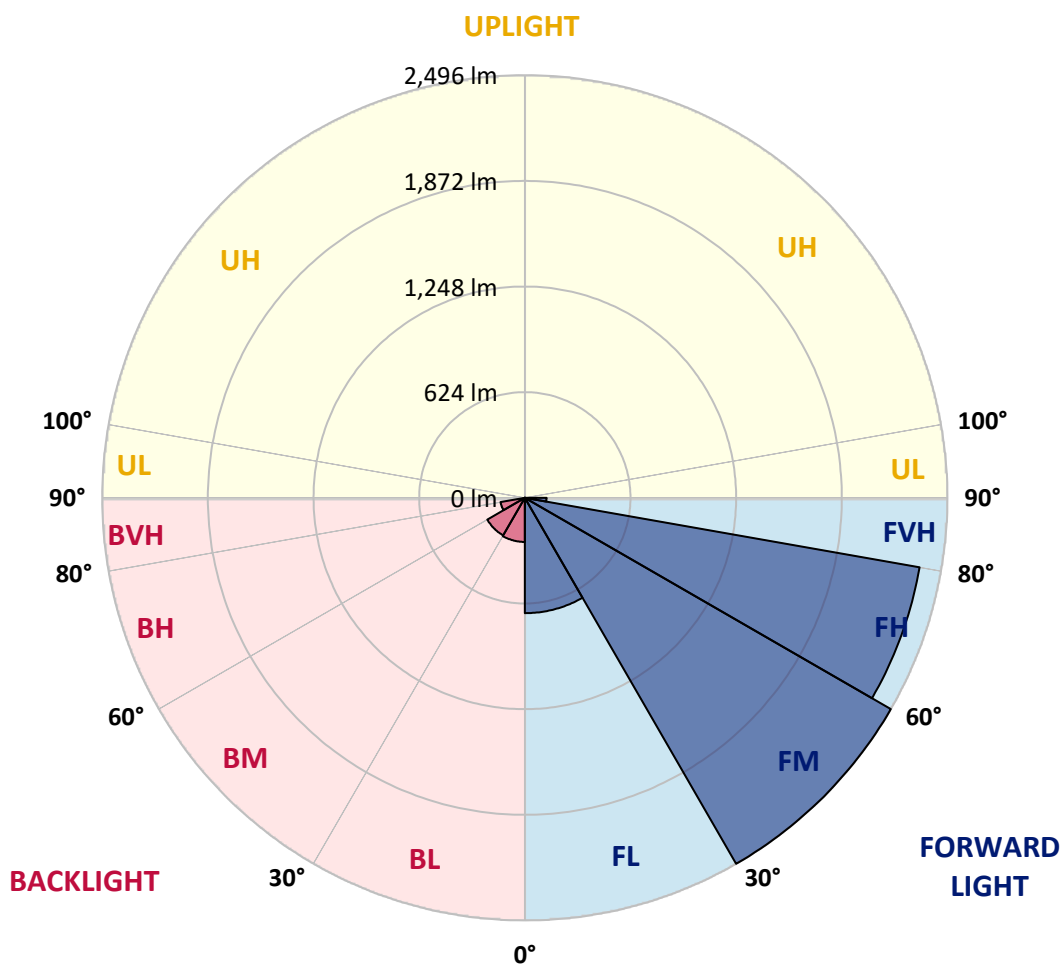


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	681.4	10.8			
FM (30°-60°)	2496.3	39.4			
FH (60°-80°)	2368.0	37.4			G2/5000
FVH (80°-90°)	128.2	2.0			G2/225
BL (0°-30°)	260.8	4.1	B1/500		
BM (30°-60°)	256.1	4.0	B1/1000		
BH (60°-80°)	145.4	2.3	B1/500		G1/500
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4
2.5°	2003.0	2010.5	1992.6	2013.4	1994.1	2003.0	1992.6	1989.7	1991.1	1992.6	1980.7
5°	1909.4	1927.2	1934.7	1922.8	1951.0	1946.6	1964.4	1965.9	1958.5	1951.0	1952.5
7.5°	1786.1	1803.9	1811.3	1818.8	1847.0	1884.2	1907.9	1893.1	1905.0	1931.7	1891.6
10°	1696.9	1692.5	1691.0	1705.8	1759.3	1790.5	1830.7	1826.2	1855.9	1881.2	1848.5
12.5°	1587.0	1578.1	1604.8	1616.7	1664.2	1719.2	1750.4	1783.1	1812.8	1839.6	1802.4
15°	1505.2	1512.7	1523.1	1548.3	1582.5	1655.3	1701.4	1732.6	1786.1	1799.5	1784.6
17.5°	1439.9	1445.8	1460.7	1474.0	1517.1	1587.0	1659.8	1696.9	1753.4	1789.1	1743.0
20°	1441.4	1423.5	1423.5	1436.9	1460.7	1543.9	1621.1	1633.0	1710.3	1771.2	1740.0
22.5°	1442.8	1436.9	1423.5	1422.0	1432.4	1491.9	1570.6	1597.4	1680.6	1751.9	1714.8
25°	1463.6	1441.4	1442.8	1422.0	1426.5	1456.2	1518.6	1558.7	1653.8	1762.3	1701.4
27.5°	1481.5	1491.9	1471.1	1462.2	1436.9	1435.4	1487.4	1521.6	1640.5	1786.1	1710.3
30°	1521.6	1529.0	1529.0	1523.1	1499.3	1465.1	1477.0	1520.1	1613.7	1781.6	1695.4
32.5°	1588.5	1575.1	1592.9	1584.0	1552.8	1499.3	1509.7	1532.0	1630.1	1838.1	1719.2
35°	1610.7	1621.1	1644.9	1625.6	1615.2	1584.0	1563.2	1579.5	1653.8	1894.6	1754.9
37.5°	1679.1	1664.2	1680.6	1723.7	1734.1	1677.6	1637.5	1661.3	1743.0	1961.4	1787.6
40°	1685.0	1696.9	1726.6	1811.3	1821.7	1798.0	1765.3	1771.2	1832.1	2047.6	1869.3
42.5°	1714.8	1728.1	1789.1	1860.4	1916.8	1921.3	1897.5	1897.5	1949.5	2185.8	1959.9
45°	1772.7	1750.4	1829.2	1949.5	2031.3	2047.6	2078.8	2071.4	2113.0	2331.4	2129.3
47.5°	1795.0	1802.4	1888.6	2034.2	2127.8	2203.6	2255.6	2257.1	2277.9	2517.2	2349.3
50°	1867.8	1866.3	1970.3	2105.6	2243.8	2381.9	2483.0	2483.0	2481.5	2698.4	2538.0
52.5°	1964.4	1961.4	2041.7	2202.1	2381.9	2555.8	2689.5	2694.0	2728.2	2921.3	2754.9
55°	2121.9	2108.5	2185.8	2304.7	2520.1	2731.1	2962.9	2964.4	2937.7	3080.3	2910.9
57.5°	2254.2	2252.7	2316.6	2431.0	2674.7	2957.0	3225.9	3266.1	3181.4	3243.8	3035.8
60°	2220.0	2239.3	2371.5	2540.9	2838.1	3239.3	3509.8	3572.2	3437.0	3355.2	3129.4
62.5°	2007.5	2052.1	2196.2	2466.6	2976.3	3649.4	3900.6	3872.3	3570.7	3450.3	3243.8
65°	1444.3	1488.9	1667.2	2072.9	2815.8	3939.2	4414.7	4286.9	3808.4	3591.5	3396.8
67.5°	850.0	867.8	979.2	1322.5	2105.6	3781.7	5038.8	5049.2	4276.5	3808.4	3661.3
70°	613.7	627.1	670.2	780.1	1166.5	2964.4	5386.5	5656.9	4925.9	4058.1	3521.6
72.5°	471.0	471.0	543.8	649.4	743.0	1775.7	4957.1	5499.4	5067.0	3818.8	2838.1
75°	338.8	347.7	426.5	558.7	685.0	891.6	3652.4	4364.2	4294.3	3095.2	1982.2
77.5°	194.7	199.1	300.2	468.1	643.4	612.2	2257.1	2958.5	3041.7	1937.7	858.9
80°	99.6	102.5	167.9	370.0	582.5	533.4	1346.3	1948.1	1652.4	563.2	199.1
82.5°	49.0	49.0	75.8	236.3	494.8	472.5	792.0	1075.8	585.5	129.3	83.2
85°	16.3	17.8	34.2	133.7	358.1	285.3	484.4	511.2	196.1	49.0	46.1
87.5°	4.5	5.9	8.9	49.0	156.0	187.2	288.3	326.9	80.2	19.3	22.3
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°	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4	1967.4
2.5°	1936.2	1925.8	1913.9	1884.2	1860.4	1829.2	1808.4	1792.0	1760.8	1766.8	1753.4
5°	1916.8	1897.5	1829.2	1763.8	1704.4	1613.7	1551.3	1511.2	1478.5	1445.8	1469.6
7.5°	1882.7	1836.6	1729.6	1607.8	1481.5	1362.6	1243.7	1172.4	1120.4	1072.8	1071.4
10°	1824.7	1750.4	1582.5	1423.5	1228.9	1072.8	921.3	802.4	725.1	668.7	667.2
12.5°	1759.3	1682.1	1471.1	1212.5	988.1	768.2	586.9	460.6	387.8	343.2	337.3
15°	1717.7	1604.8	1331.4	1025.3	747.4	500.8	325.4	246.7	218.4	208.0	208.0
17.5°	1664.2	1535.0	1193.2	830.6	518.6	289.8	211.0	190.2	188.7	185.7	182.8
20°	1642.0	1481.5	1069.9	662.7	328.4	205.1	181.3	176.8	176.8	173.9	170.9
22.5°	1582.5	1404.2	939.1	485.9	218.4	179.8	170.9	164.9	162.0	159.0	162.0
25°	1555.8	1349.2	815.8	335.8	178.3	160.5	156.0	150.1	145.6	144.1	144.1
27.5°	1537.9	1294.2	695.4	233.3	157.5	147.1	138.2	133.7	127.8	121.8	121.8
30°	1524.6	1251.2	579.5	172.4	141.2	130.8	123.3	112.9	105.5	99.6	99.6
32.5°	1506.7	1200.6	463.6	147.1	127.8	117.4	104.0	95.1	84.7	80.2	80.2
35°	1512.7	1166.5	364.1	130.8	114.4	101.0	89.2	77.3	66.9	62.4	60.9
37.5°	1524.6	1141.2	276.4	117.4	102.5	87.7	74.3	60.9	55.0	49.0	49.0
40°	1575.1	1133.8	203.6	108.5	93.6	77.3	62.4	50.5	44.6	40.1	38.6
42.5°	1659.8	1144.2	157.5	98.1	84.7	65.4	52.0	41.6	35.7	31.2	29.7
45°	1768.3	1184.3	129.3	92.1	74.3	55.0	41.6	34.2	26.7	23.8	23.8
47.5°	1925.8	1246.7	112.9	84.7	65.4	46.1	35.7	26.7	20.8	17.8	17.8
50°	2104.1	1318.0	99.6	75.8	56.5	38.6	28.2	20.8	14.9	13.4	13.4
52.5°	2282.4	1408.7	92.1	69.8	49.0	31.2	22.3	14.9	10.4	8.9	8.9
55°	2469.6	1488.9	83.2	65.4	40.1	25.3	16.3	8.9	5.9	4.5	4.5
57.5°	2600.4	1520.1	72.8	56.5	31.2	19.3	11.9	5.9	3.0	1.5	1.5
60°	2694.0	1524.6	62.4	46.1	23.8	14.9	7.4	3.0	1.5	0.0	0.0
62.5°	2772.7	1533.5	53.5	35.7	17.8	10.4	4.5	1.5	0.0	0.0	0.0
65°	2928.8	1526.0	43.1	28.2	11.9	5.9	3.0	0.0	0.0	0.0	0.0
67.5°	3052.1	1451.8	34.2	19.3	7.4	3.0	1.5	0.0	0.0	0.0	0.0
70°	2699.9	1107.0	26.7	13.4	4.5	1.5	0.0	0.0	0.0	0.0	0.0
72.5°	2120.4	738.5	17.8	7.4	3.0	1.5	0.0	0.0	0.0	0.0	0.0
75°	1390.8	367.0	13.4	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	540.9	96.6	8.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	130.8	32.7	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	56.5	11.9	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.2	5.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.8	3.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)