

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: P677068

Luminaire Tested: **CCW-SA-2C-840-U-SL3-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677068
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2C-840-U-SL3-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
SL3 distribution lens and House Side Shield
Light Source: (32) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6370.2 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

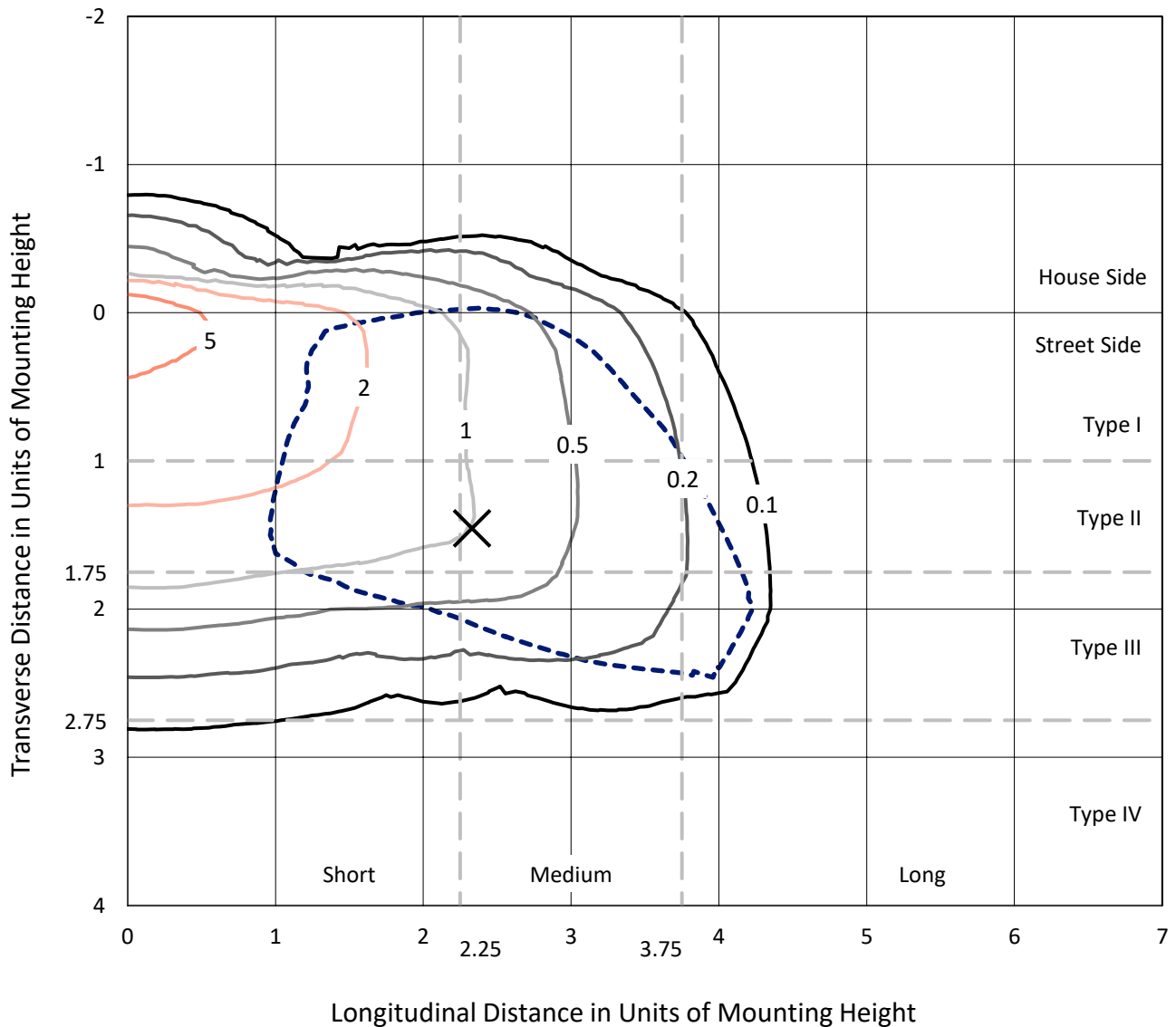
Input Watts (W): 62.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

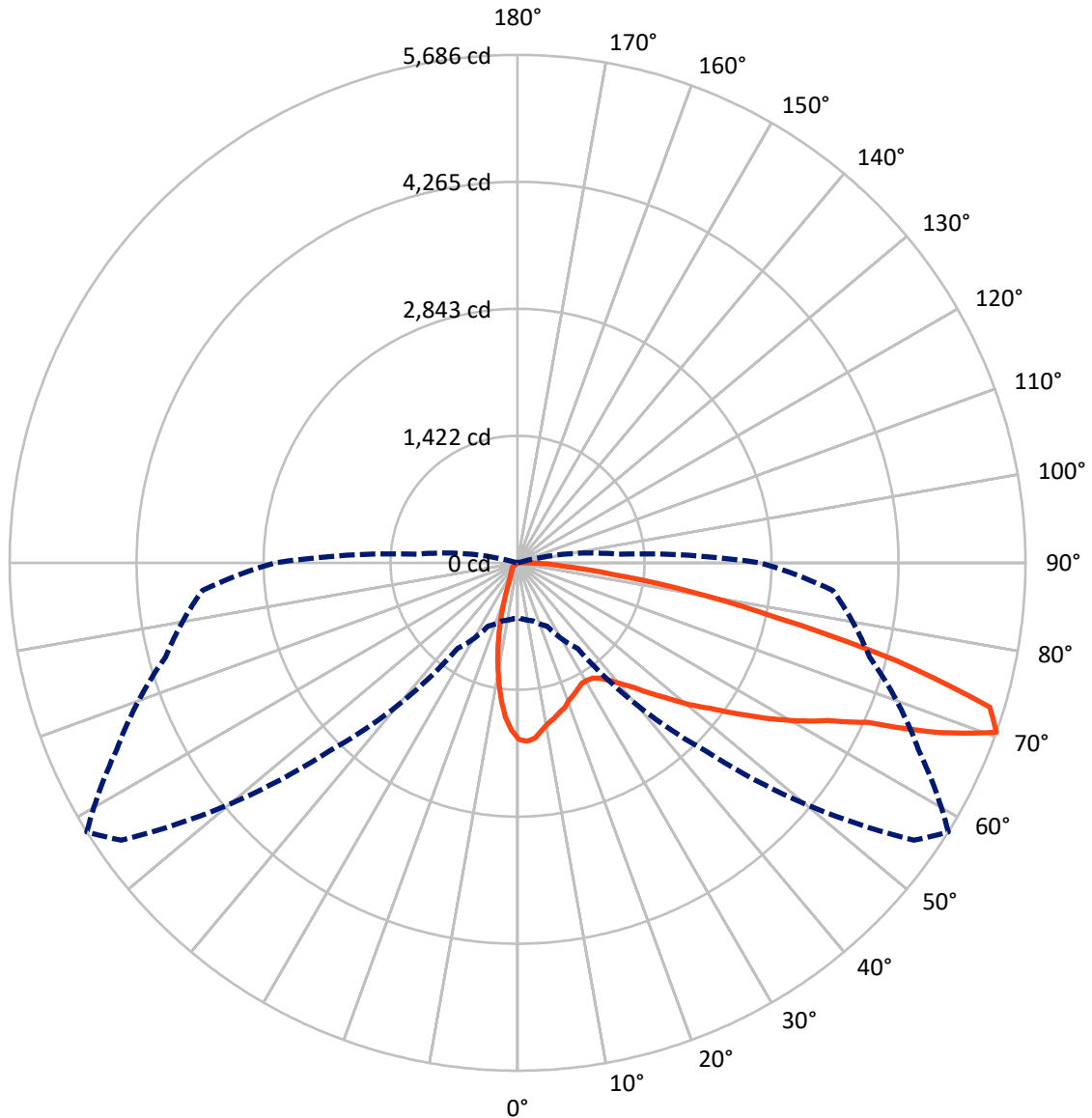
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.8 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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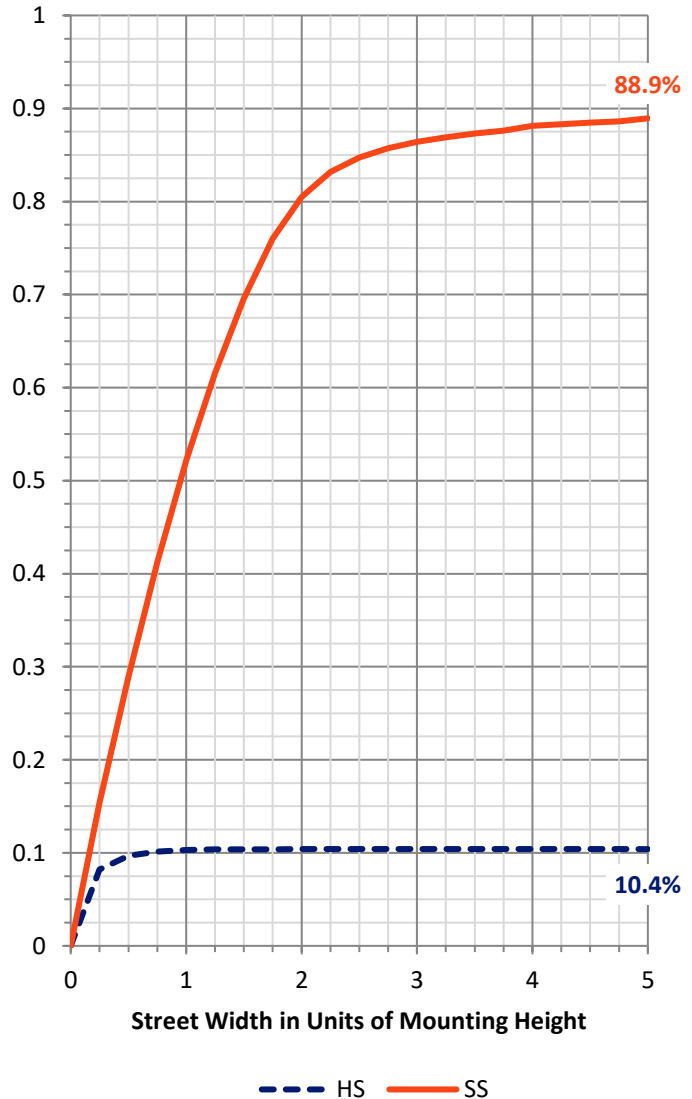
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	667.1	0.0	667.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	5703.1	0.0	5703.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	6370.2	0.0	6370.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.4	2.5
10°-20°	335.9	5.3
20°-30°	449.8	7.1
30°-40°	608.0	9.5
40°-50°	872.6	13.7
50°-60°	1286.0	20.2
60°-70°	1568.6	24.6
70°-80°	957.8	15.0
80°-90°	130.1	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°	6370.2	100.0
0°-180°	6370.2	100.0

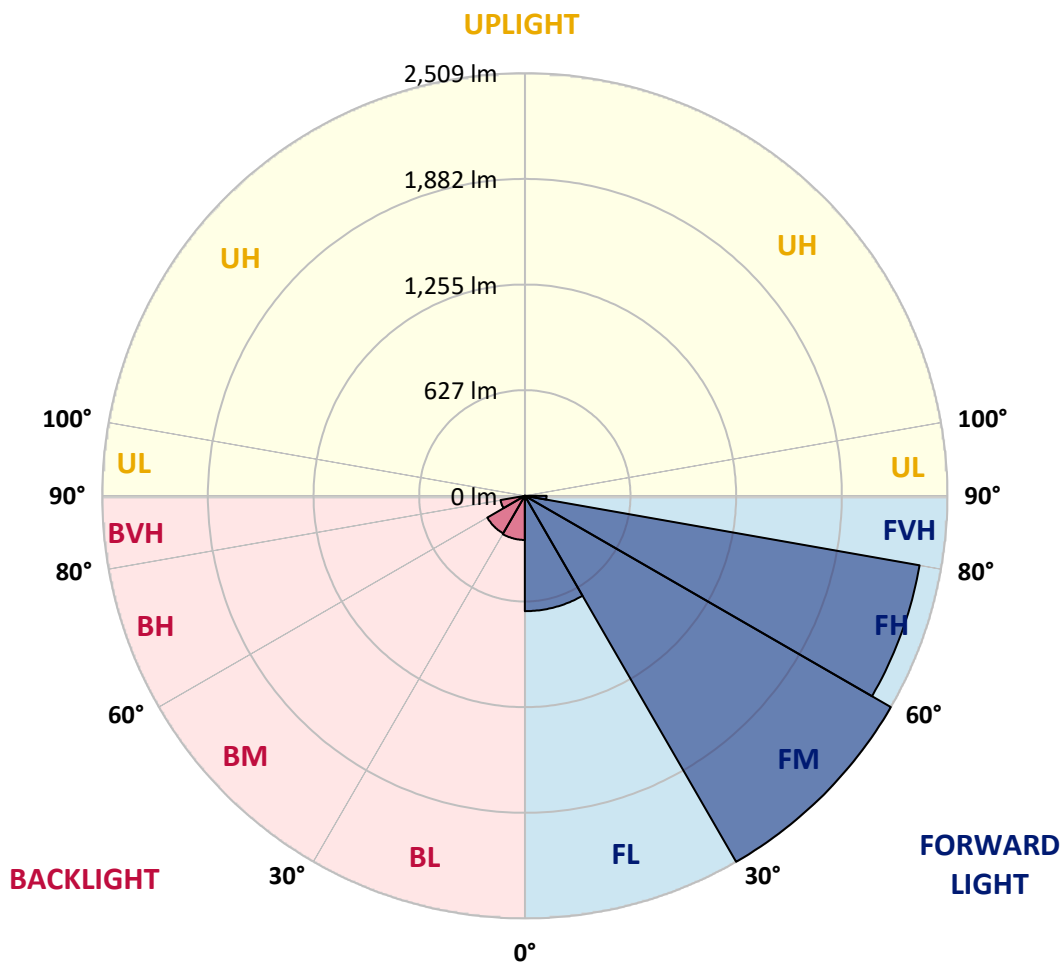


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	684.9	10.8			
FM (30°-60°)	2509.1	39.4			
FH (60°-80°)	2380.2	37.4			G2/5000
FVH (80°-90°)	128.9	2.0			G2/225
BL (0°-30°)	262.2	4.1	B1/500		
BM (30°-60°)	257.5	4.0	B1/1000		
BH (60°-80°)	146.2	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°	1977.5	1977.5	1977.5	1977.5	1977.5	1977.5	1977.5	1977.5	1977.5	1977.5	1977.5
2.5°	2013.3	2020.8	2002.9	2023.8	2004.4	2013.3	2002.9	1999.9	2001.4	2002.9	1990.9
5°	1919.2	1937.2	1944.6	1932.7	1961.1	1956.6	1974.5	1976.0	1968.5	1961.1	1962.5
7.5°	1795.3	1813.2	1820.7	1828.1	1856.5	1893.8	1917.7	1902.8	1914.8	1941.6	1901.3
10°	1705.7	1701.2	1699.7	1714.6	1768.4	1799.7	1840.1	1835.6	1865.5	1890.9	1858.0
12.5°	1595.1	1586.2	1613.1	1625.0	1672.8	1728.1	1759.4	1792.3	1822.2	1849.0	1811.7
15°	1513.0	1520.5	1530.9	1556.3	1590.6	1663.8	1710.1	1741.5	1795.3	1808.7	1793.8
17.5°	1447.3	1453.2	1468.2	1481.6	1524.9	1595.1	1668.3	1705.7	1762.4	1798.3	1752.0
20°	1448.8	1430.8	1430.8	1444.3	1468.2	1551.8	1629.5	1641.4	1719.1	1780.3	1749.0
22.5°	1450.3	1444.3	1430.8	1429.3	1439.8	1499.5	1578.7	1605.6	1689.2	1760.9	1723.6
25°	1471.2	1448.8	1450.3	1429.3	1433.8	1463.7	1526.4	1566.8	1662.3	1771.4	1710.1
27.5°	1489.1	1499.5	1478.6	1469.7	1444.3	1442.8	1495.1	1529.4	1648.9	1795.3	1719.1
30°	1529.4	1536.9	1536.9	1530.9	1507.0	1472.7	1484.6	1527.9	1622.0	1790.8	1704.2
32.5°	1596.6	1583.2	1601.1	1592.1	1560.8	1507.0	1517.5	1539.9	1638.4	1847.5	1728.1
35°	1619.0	1629.5	1653.4	1634.0	1623.5	1592.1	1571.2	1587.7	1662.3	1904.3	1763.9
37.5°	1687.7	1672.8	1689.2	1732.5	1743.0	1686.2	1645.9	1669.8	1752.0	1971.5	1796.8
40°	1693.7	1705.7	1735.5	1820.7	1831.1	1807.2	1774.4	1780.3	1841.6	2058.1	1878.9
42.5°	1723.6	1737.0	1798.3	1869.9	1926.7	1931.2	1907.3	1907.3	1959.6	2197.0	1970.0
45°	1781.8	1759.4	1838.6	1959.6	2041.7	2058.1	2089.5	2082.0	2123.9	2343.4	2140.3
47.5°	1804.2	1811.7	1898.3	2044.7	2138.8	2215.0	2267.2	2268.7	2289.6	2530.1	2361.3
50°	1877.4	1875.9	1980.5	2116.4	2255.3	2394.2	2495.8	2495.8	2494.3	2712.3	2551.0
52.5°	1974.5	1971.5	2052.2	2213.5	2394.2	2568.9	2703.4	2707.8	2742.2	2936.4	2769.1
55°	2132.8	2119.4	2197.0	2316.5	2533.1	2745.2	2978.2	2979.7	2952.8	3096.2	2925.9
57.5°	2265.7	2264.2	2328.5	2443.5	2688.4	2972.2	3242.5	3282.9	3197.7	3260.5	3051.4
60°	2231.4	2250.8	2383.7	2554.0	2852.7	3256.0	3527.8	3590.5	3454.6	3372.5	3145.5
62.5°	2017.8	2062.6	2207.5	2479.3	2991.6	3668.2	3920.6	3892.2	3589.0	3468.1	3260.5
65°	1451.7	1496.6	1675.8	2083.5	2830.3	3959.4	4437.4	4308.9	3828.0	3610.0	3414.3
67.5°	854.3	872.2	984.3	1329.3	2116.4	3801.1	5064.7	5075.1	4298.5	3828.0	3680.1
70°	616.8	630.3	673.6	784.1	1172.5	2979.7	5414.2	5686.0	4951.2	4078.9	3539.8
72.5°	473.5	473.5	546.6	652.7	746.8	1784.8	4982.5	5527.7	5093.1	3838.5	2852.7
75°	340.5	349.5	428.7	561.6	688.5	896.1	3671.2	4386.6	4316.4	3111.1	1992.4
77.5°	195.7	200.1	301.7	470.5	646.7	615.3	2268.7	2973.7	3057.3	1947.6	863.3
80°	100.1	103.1	168.8	371.9	585.5	536.2	1353.2	1958.1	1660.8	566.1	200.1
82.5°	49.3	49.3	76.2	237.5	497.4	475.0	796.1	1081.3	588.5	129.9	83.6
85°	16.4	17.9	34.4	134.4	359.9	286.8	486.9	513.8	197.2	49.3	46.3
87.5°	4.5	6.0	9.0	49.3	156.8	188.2	289.8	328.6	80.7	19.4	22.4
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°	1977.5	1977.5	1977.5	1977.5	1977.5	1977.5	1977.5	1977.5	1977.5	1977.5	1977.5
2.5°	1946.1	1935.7	1923.7	1893.8	1869.9	1838.6	1817.7	1801.2	1769.9	1775.9	1762.4
5°	1926.7	1907.3	1838.6	1772.9	1713.1	1622.0	1559.3	1519.0	1486.1	1453.2	1477.1
7.5°	1892.3	1846.0	1738.5	1616.0	1489.1	1369.6	1250.1	1178.4	1126.1	1078.4	1076.9
10°	1834.1	1759.4	1590.6	1430.8	1235.2	1078.4	926.0	806.5	728.9	672.1	670.6
12.5°	1768.4	1690.7	1478.6	1218.8	993.2	772.2	590.0	463.0	389.8	345.0	339.0
15°	1726.6	1613.1	1338.2	1030.6	751.3	503.3	327.1	247.9	219.6	209.1	209.1
17.5°	1672.8	1542.9	1199.3	834.9	521.3	291.2	212.1	191.2	189.7	186.7	183.7
20°	1650.4	1489.1	1075.4	666.1	330.1	206.1	182.2	177.7	177.7	174.7	171.8
22.5°	1590.6	1411.4	943.9	488.4	219.6	180.7	171.8	165.8	162.8	159.8	162.8
25°	1563.8	1356.2	820.0	337.5	179.2	161.3	156.8	150.9	146.4	144.9	144.9
27.5°	1545.8	1300.9	699.0	234.5	158.3	147.9	138.9	134.4	128.4	122.5	122.5
30°	1532.4	1257.6	582.5	173.3	141.9	131.4	124.0	113.5	106.0	100.1	100.1
32.5°	1514.5	1206.8	466.0	147.9	128.4	118.0	104.5	95.6	85.1	80.7	80.7
35°	1520.5	1172.5	365.9	131.4	115.0	101.6	89.6	77.7	67.2	62.7	61.2
37.5°	1532.4	1147.1	277.8	118.0	103.1	88.1	74.7	61.2	55.3	49.3	49.3
40°	1583.2	1139.6	204.6	109.0	94.1	77.7	62.7	50.8	44.8	40.3	38.8
42.5°	1668.3	1150.0	158.3	98.6	85.1	65.7	52.3	41.8	35.8	31.4	29.9
45°	1777.3	1190.4	129.9	92.6	74.7	55.3	41.8	34.4	26.9	23.9	23.9
47.5°	1935.7	1253.1	113.5	85.1	65.7	46.3	35.8	26.9	20.9	17.9	17.9
50°	2114.9	1324.8	100.1	76.2	56.8	38.8	28.4	20.9	14.9	13.4	13.4
52.5°	2294.1	1415.9	92.6	70.2	49.3	31.4	22.4	14.9	10.5	9.0	9.0
55°	2482.3	1496.6	83.6	65.7	40.3	25.4	16.4	9.0	6.0	4.5	4.5
57.5°	2613.7	1527.9	73.2	56.8	31.4	19.4	11.9	6.0	3.0	1.5	1.5
60°	2707.8	1532.4	62.7	46.3	23.9	14.9	7.5	3.0	1.5	0.0	0.0
62.5°	2787.0	1541.4	53.8	35.8	17.9	10.5	4.5	1.5	0.0	0.0	0.0
65°	2943.8	1533.9	43.3	28.4	11.9	6.0	3.0	0.0	0.0	0.0	0.0
67.5°	3067.8	1459.2	34.4	19.4	7.5	3.0	1.5	0.0	0.0	0.0	0.0
70°	2713.8	1112.7	26.9	13.4	4.5	1.5	0.0	0.0	0.0	0.0	0.0
72.5°	2131.3	742.3	17.9	7.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0
75°	1398.0	368.9	13.4	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	543.7	97.1	9.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	131.4	32.9	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	56.8	11.9	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.4	6.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.9	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)