

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: P677114

Luminaire Tested: **CCW-SA-2D-727-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677114
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-727-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
SL4 distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

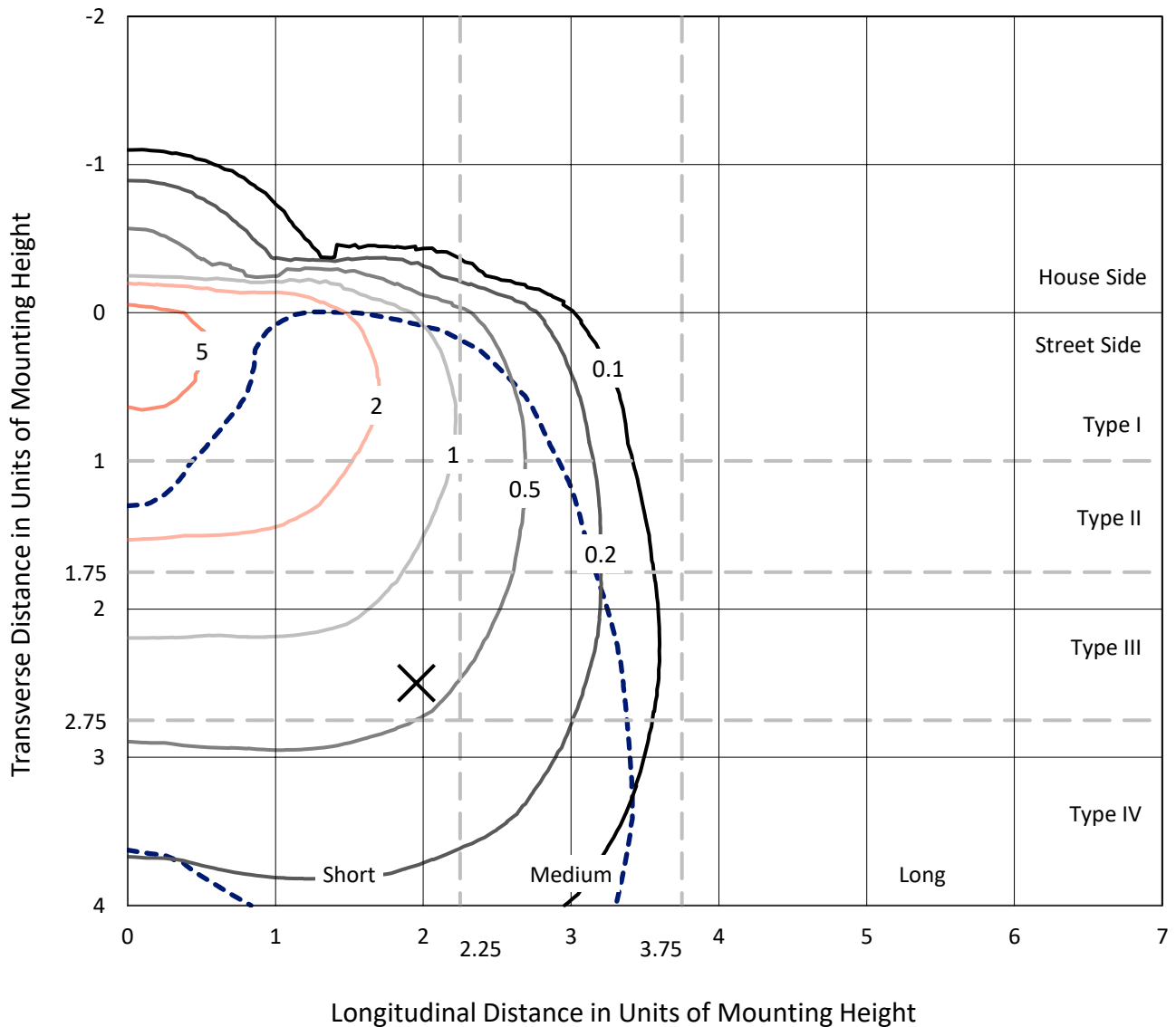
Lumens per Lamp: N/A
Luminaire Lumens: 7704.4 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8
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

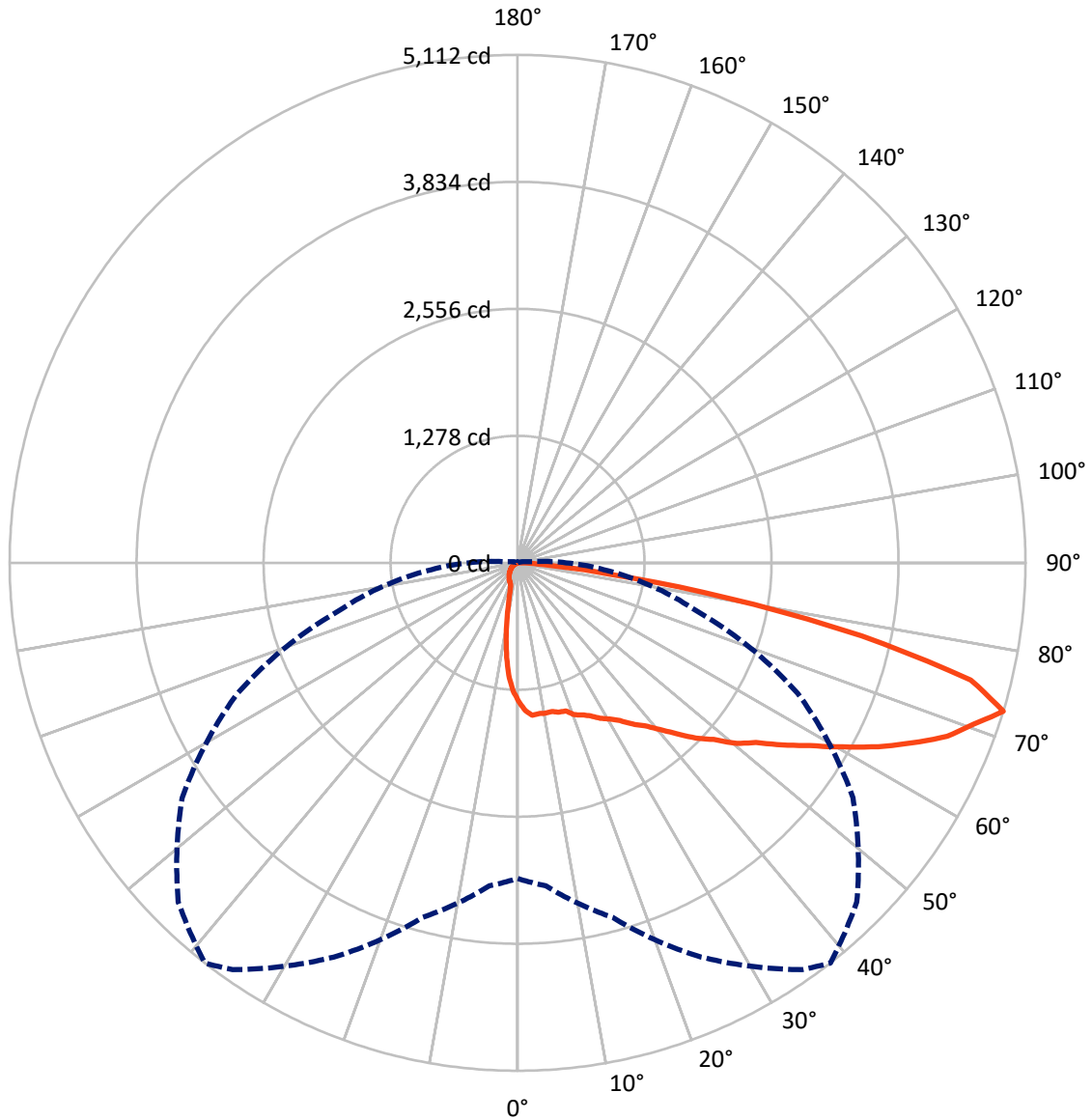
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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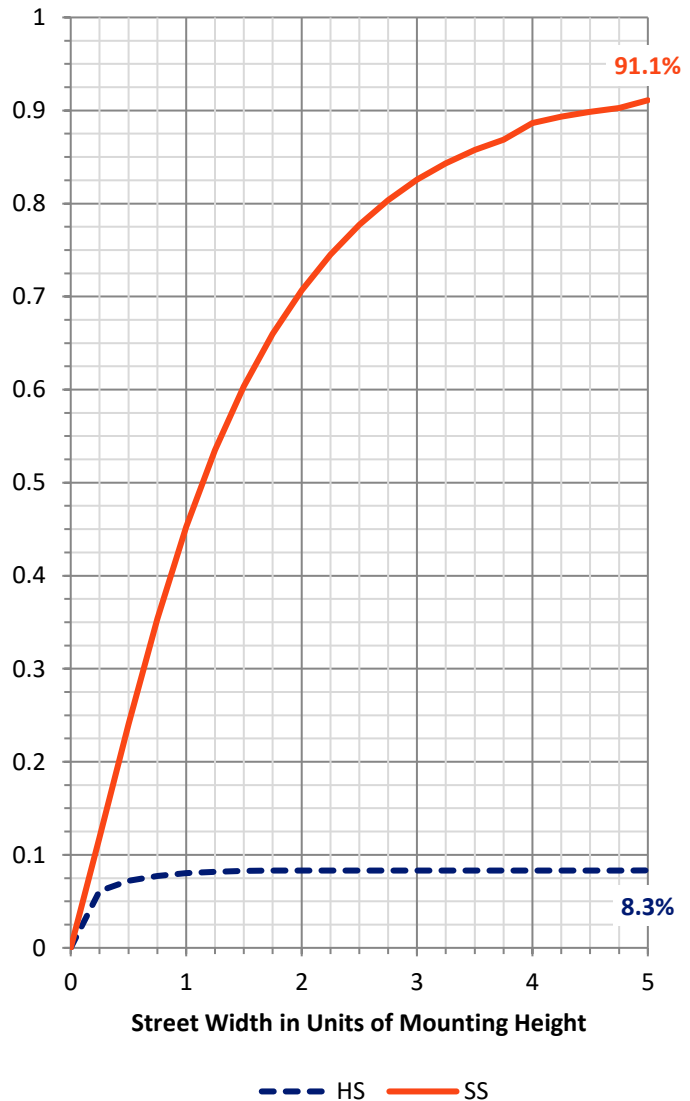
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	645.2	0.0	645.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	7059.2	0.0	7059.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	7704.4	0.0	7704.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.9	1.6
10°-20°	298.6	3.9
20°-30°	478.7	6.2
30°-40°	722.7	9.4
40°-50°	1099.9	14.3
50°-60°	1548.5	20.1
60°-70°	1891.5	24.6
70°-80°	1373.5	17.8
80°-90°	169.1	2.2
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°	7704.4	100.0
0°-180°	7704.4	100.0

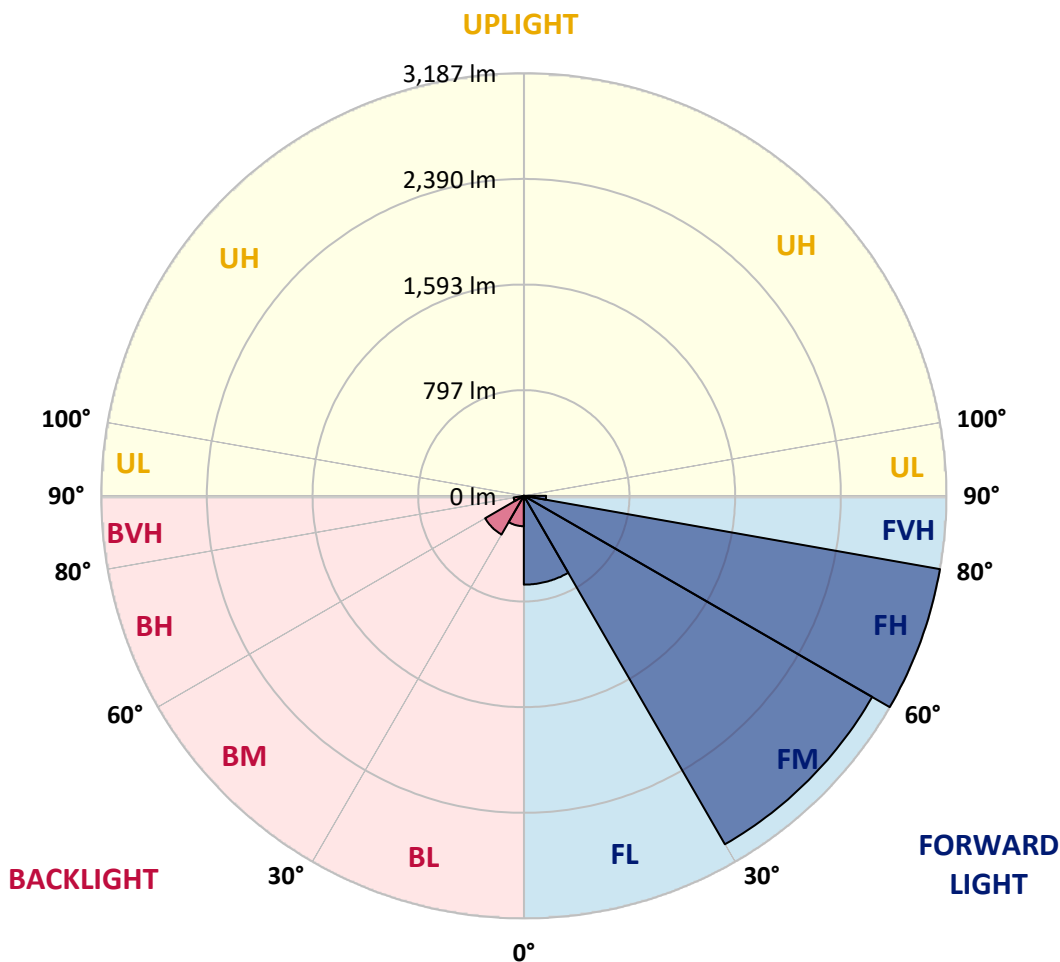


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	670.1	8.7			
FM (30°-60°)	3034.0	39.4			
FH (60°-80°)	3186.8	41.4			G2/5000
FVH (80°-90°)	168.3	2.2			G2/225
BL (0°-30°)	229.1	3.0	B1/500		
BM (30°-60°)	337.1	4.4	B1/1000		
BH (60°-80°)	78.2	1.0	B0/110		G0/110
BVH (80°-90°)	0.9	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1393.3	1393.3	1393.3	1393.3	1393.3	1393.3	1393.3	1393.3	1393.3	1393.3	1393.3
2.5°	1530.6	1530.6	1545.1	1530.6	1525.2	1490.8	1492.6	1474.6	1456.5	1431.2	1407.7
5°	1548.7	1561.3	1570.4	1557.7	1537.8	1541.4	1554.1	1519.8	1471.0	1440.2	1387.8
7.5°	1541.4	1568.5	1561.3	1554.1	1541.4	1532.4	1514.3	1499.9	1476.4	1447.5	1386.0
10°	1536.0	1545.1	1546.9	1541.4	1514.3	1539.6	1519.8	1496.3	1467.3	1433.0	1357.1
12.5°	1516.1	1516.1	1532.4	1519.8	1523.4	1536.0	1527.0	1521.6	1490.8	1461.9	1395.1
15°	1494.5	1501.7	1527.0	1546.9	1564.9	1559.5	1554.1	1537.8	1510.7	1478.2	1407.7
17.5°	1499.9	1503.5	1543.2	1579.4	1570.4	1566.7	1595.7	1561.3	1534.2	1498.1	1418.6
20°	1519.8	1530.6	1575.8	1622.8	1631.8	1631.8	1620.9	1601.1	1563.1	1514.3	1438.4
22.5°	1539.6	1543.2	1617.3	1677.0	1686.0	1662.5	1671.5	1613.7	1577.6	1550.5	1458.3
25°	1615.5	1608.3	1687.8	1734.8	1729.4	1705.9	1696.8	1646.2	1631.8	1583.0	1501.7
27.5°	1718.5	1687.8	1765.5	1794.4	1765.5	1772.7	1747.4	1693.2	1662.5	1633.6	1521.6
30°	1781.8	1799.9	1841.4	1870.3	1821.5	1823.3	1810.7	1751.1	1704.1	1711.3	1588.4
32.5°	1879.4	1892.0	1922.7	1935.4	1897.4	1893.8	1881.2	1834.2	1799.9	1792.6	1678.8
35°	1984.2	2007.7	2009.5	2013.1	1978.8	1993.2	1975.1	1908.3	1926.3	1939.0	1787.2
37.5°	2087.2	2065.5	2101.6	2117.9	2079.9	2079.9	2085.4	2040.2	2072.7	2110.7	1940.8
40°	2126.9	2136.0	2199.2	2186.6	2231.7	2204.6	2224.5	2213.7	2240.8	2327.5	2157.7
42.5°	2168.5	2179.3	2264.3	2287.8	2342.0	2351.0	2379.9	2381.7	2461.2	2604.0	2365.5
45°	2248.0	2229.9	2345.6	2403.4	2492.0	2517.3	2551.6	2580.5	2705.2	2873.3	2602.2
47.5°	2320.3	2295.0	2426.9	2542.6	2651.0	2656.4	2750.4	2781.1	2929.3	3120.8	2837.1
50°	2421.5	2430.5	2486.5	2685.3	2795.6	2858.8	2923.9	3025.1	3189.5	3393.7	3007.0
52.5°	2526.3	2517.3	2611.2	2806.4	2979.9	3003.4	3149.7	3263.6	3442.5	3596.1	3082.9
55°	2654.6	2665.4	2701.6	2958.2	3178.7	3234.7	3399.1	3518.4	3713.5	3682.8	3108.2
57.5°	2782.9	2772.1	2853.4	3128.1	3428.0	3469.6	3688.2	3758.7	3890.6	3740.7	3044.9
60°	2909.4	2929.3	2963.6	3319.6	3700.9	3762.3	3935.8	3972.0	4000.9	3767.8	2996.1
62.5°	3054.0	3007.0	3113.6	3522.0	3946.7	4075.0	4212.3	4069.5	4044.2	3719.0	2884.1
65°	3126.2	3140.7	3279.8	3753.3	4273.7	4367.7	4385.8	4201.5	4071.3	3610.5	2779.3
67.5°	3238.3	3258.2	3435.3	3990.0	4609.9	4662.3	4597.2	4320.7	4047.9	3469.6	2401.6
70°	3252.7	3301.5	3643.1	4237.6	4821.3	4866.5	4815.9	4400.2	3858.1	2914.8	1778.2
72.5°	3176.8	3263.6	3693.7	4378.6	4998.4	5112.2	4828.5	4120.1	3110.0	1859.5	910.8
75°	2399.8	2472.1	3381.0	4168.9	4683.9	4711.1	4239.4	3144.3	1770.9	634.3	233.1
77.5°	1243.3	1368.0	2257.0	3185.9	3569.0	3540.1	2951.0	1852.3	609.0	166.3	94.0
80°	713.8	744.5	986.7	1789.0	2244.4	2134.2	1631.8	798.7	267.4	83.1	61.4
82.5°	352.4	395.8	531.3	800.5	1122.2	923.4	612.6	478.9	150.0	45.2	54.2
85°	75.9	79.5	271.1	383.1	455.4	300.0	209.6	403.0	54.2	27.1	52.4
87.5°	54.2	52.4	75.9	171.7	126.5	77.7	124.7	211.4	12.6	12.6	10.8
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°	1393.3	1393.3	1393.3	1393.3	1393.3	1393.3	1393.3	1393.3	1393.3	1393.3	1393.3
2.5°	1393.3	1377.0	1358.9	1324.6	1315.6	1310.1	1279.4	1277.6	1272.2	1259.5	1254.1
5°	1355.3	1328.2	1293.9	1257.7	1228.8	1176.4	1113.2	1080.6	1040.9	1042.7	1030.0
7.5°	1349.9	1299.3	1250.5	1174.6	1082.4	984.9	887.3	824.0	778.9	751.7	757.2
10°	1324.6	1286.6	1207.1	1066.2	918.0	769.8	645.1	551.2	496.9	455.4	468.0
12.5°	1335.4	1261.3	1149.3	961.4	749.9	567.4	412.0	321.7	281.9	267.4	271.1
15°	1328.2	1261.3	1115.0	847.5	589.1	384.9	267.4	238.5	231.3	231.3	227.7
17.5°	1349.9	1275.8	1057.1	735.5	422.9	256.6	229.5	224.1	218.7	218.7	218.7
20°	1380.6	1283.0	1017.4	610.8	298.2	225.9	215.0	211.4	209.6	209.6	207.8
22.5°	1382.4	1275.8	943.3	473.5	229.5	213.2	204.2	202.4	202.4	198.8	198.8
25°	1393.3	1283.0	863.8	356.0	213.2	200.6	193.4	191.6	193.4	191.6	189.7
27.5°	1420.4	1295.7	784.3	260.2	200.6	189.7	184.3	182.5	182.5	182.5	178.9
30°	1454.7	1295.7	695.7	215.0	189.7	178.9	173.5	171.7	169.9	169.9	169.9
32.5°	1527.0	1337.2	587.3	191.6	175.3	166.3	160.8	160.8	159.0	159.0	157.2
35°	1617.3	1366.2	477.1	177.1	162.6	153.6	148.2	148.2	146.4	146.4	144.6
37.5°	1729.4	1438.4	365.0	166.3	150.0	141.0	135.5	135.5	135.5	133.7	133.7
40°	1888.4	1512.5	271.1	151.8	137.3	128.3	124.7	122.9	121.1	121.1	117.5
42.5°	2058.3	1626.4	202.4	141.0	126.5	119.3	113.8	108.4	108.4	103.0	103.0
45°	2242.6	1725.8	164.4	128.3	115.7	106.6	101.2	97.6	92.2	88.5	88.5
47.5°	2423.3	1787.2	144.6	113.8	104.8	97.6	92.2	84.9	77.7	75.9	74.1
50°	2569.7	1805.3	128.3	103.0	95.8	88.5	81.3	72.3	65.1	61.4	59.6
52.5°	2569.7	1705.9	115.7	92.2	86.7	79.5	70.5	59.6	50.6	47.0	45.2
55°	2569.7	1548.7	103.0	84.9	77.7	72.3	59.6	48.8	39.8	34.3	32.5
57.5°	2531.7	1358.9	92.2	75.9	68.7	61.4	50.6	37.9	28.9	23.5	23.5
60°	2426.9	1160.1	79.5	66.9	59.6	50.6	39.8	27.1	18.1	12.6	12.6
62.5°	2293.2	923.4	68.7	56.0	48.8	41.6	30.7	18.1	7.2	3.6	3.6
65°	2060.1	681.3	59.6	47.0	37.9	30.7	19.9	7.2	0.0	0.0	0.0
67.5°	1700.5	455.4	47.0	37.9	32.5	21.7	12.6	1.8	0.0	0.0	0.0
70°	1196.3	258.4	36.1	27.1	23.5	14.5	3.6	0.0	0.0	0.0	0.0
72.5°	491.5	113.8	25.3	19.9	16.3	7.2	0.0	0.0	0.0	0.0	0.0
75°	133.7	50.6	16.3	10.8	9.0	1.8	0.0	0.0	0.0	0.0	0.0
77.5°	77.7	34.3	7.2	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	61.4	16.3	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	61.4	9.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	52.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.2	0.0	0.0	0.0	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)