

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: P675707

Luminaire Tested: **CCW-SA-2D-740-U-SL4**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675707
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-740-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SL4 distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

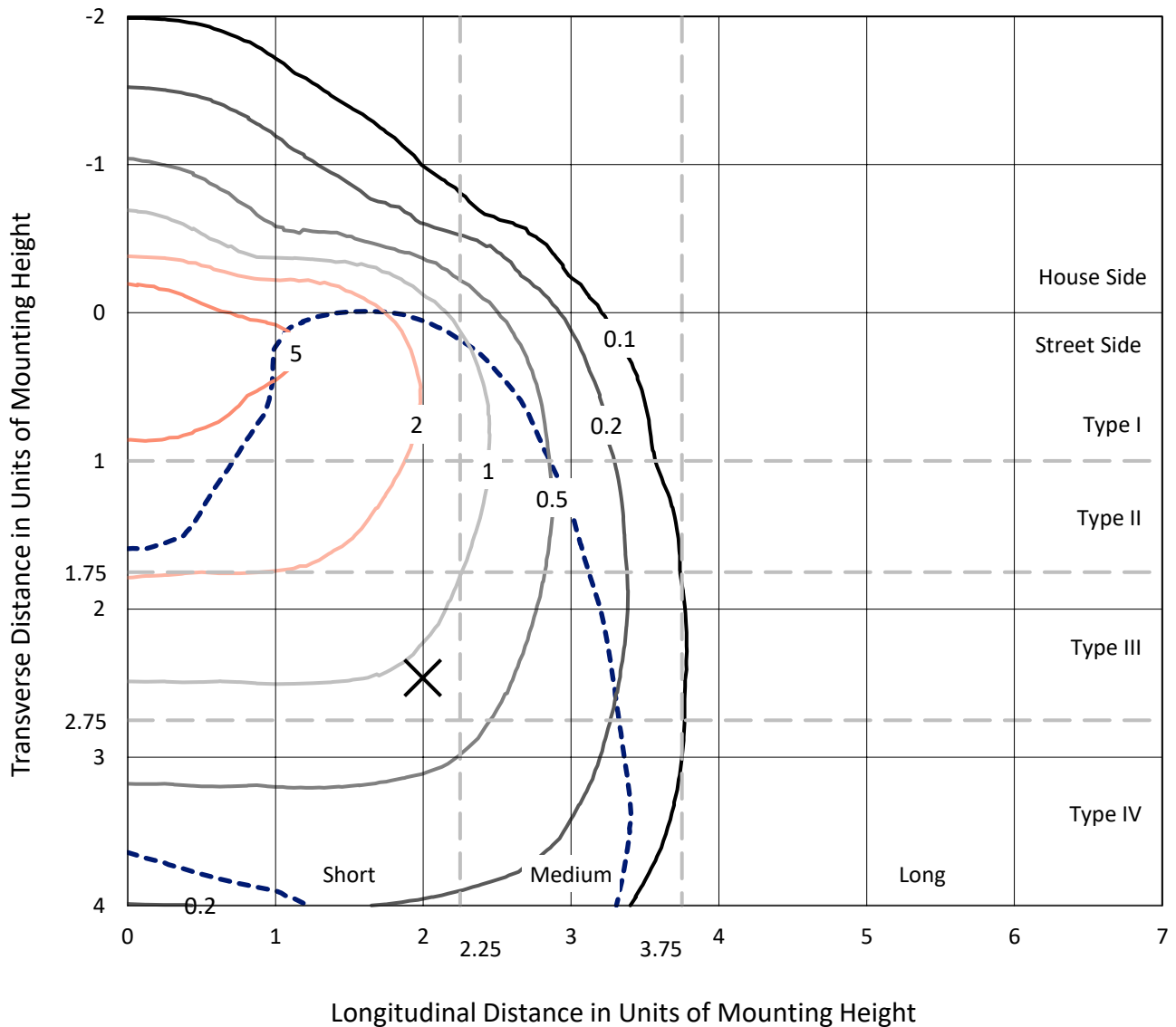
Lumens per Lamp: N/A
Luminaire Lumens: 10928.8 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (Ain): 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

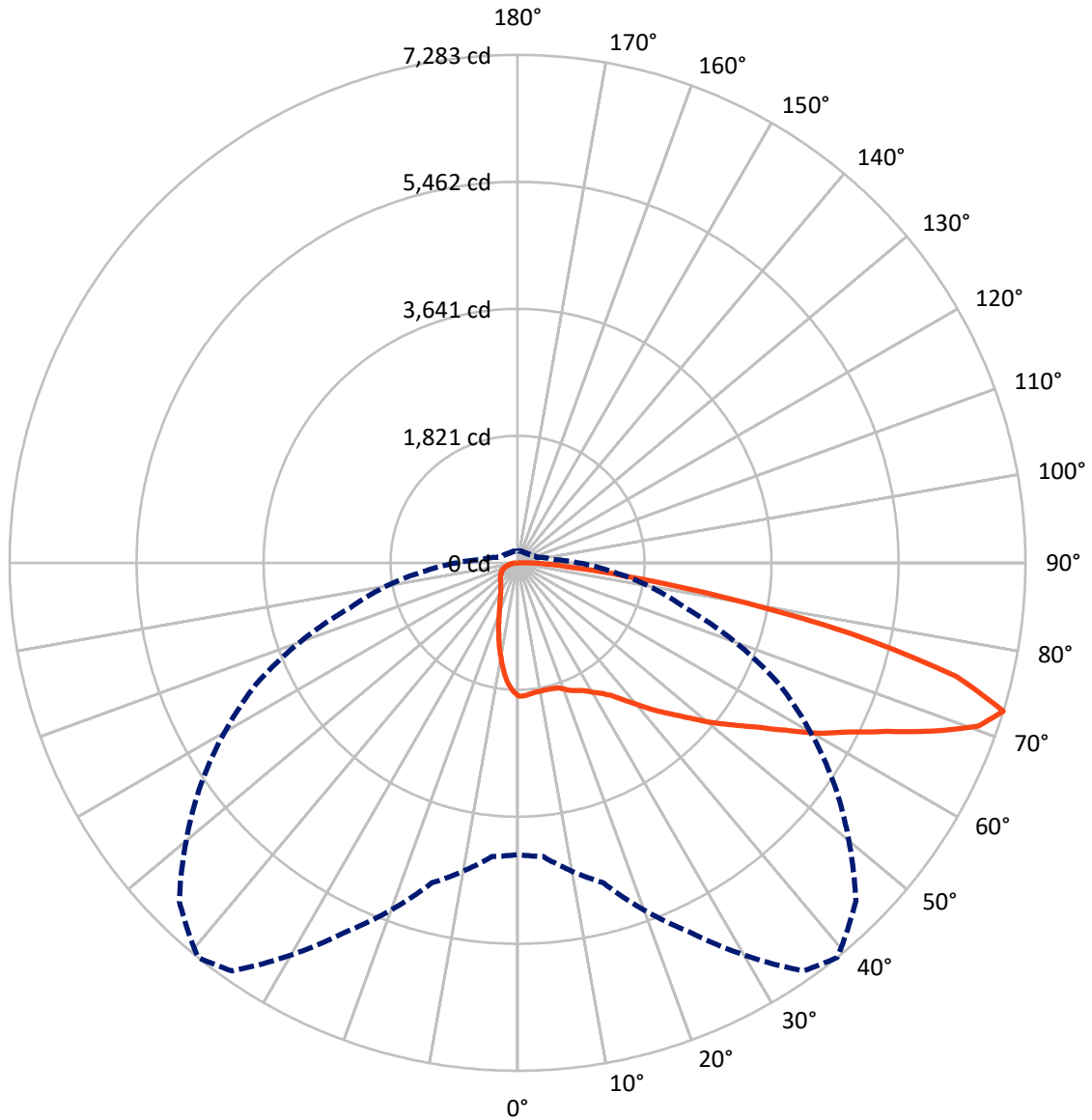
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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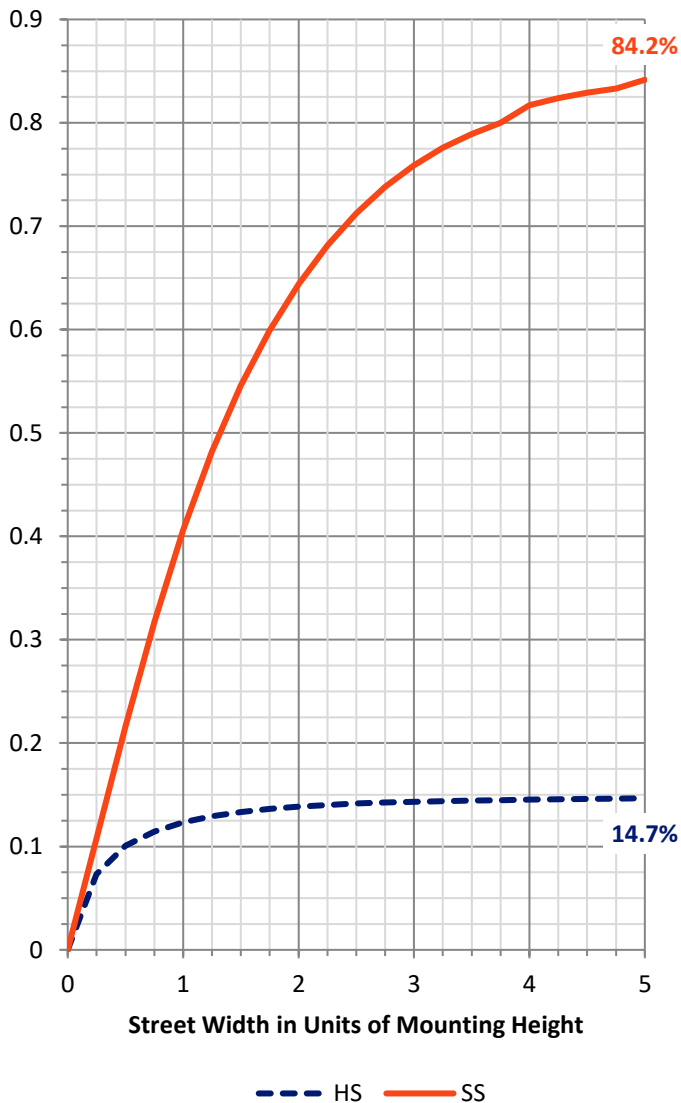
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1624.2	0.0	1624.2
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	9304.6	0.0	9304.6
	% Fixture	85.1	0.0	85.1
Total	Lumens	10928.8	0.0	10928.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.0	1.5
10°-20°	431.4	3.9
20°-30°	657.3	6.0
30°-40°	961.5	8.8
40°-50°	1472.1	13.5
50°-60°	2159.0	19.8
60°-70°	2753.5	25.2
70°-80°	1989.4	18.2
80°-90°	335.6	3.1
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°	10928.8	100.0
0°-180°	10928.8	100.0



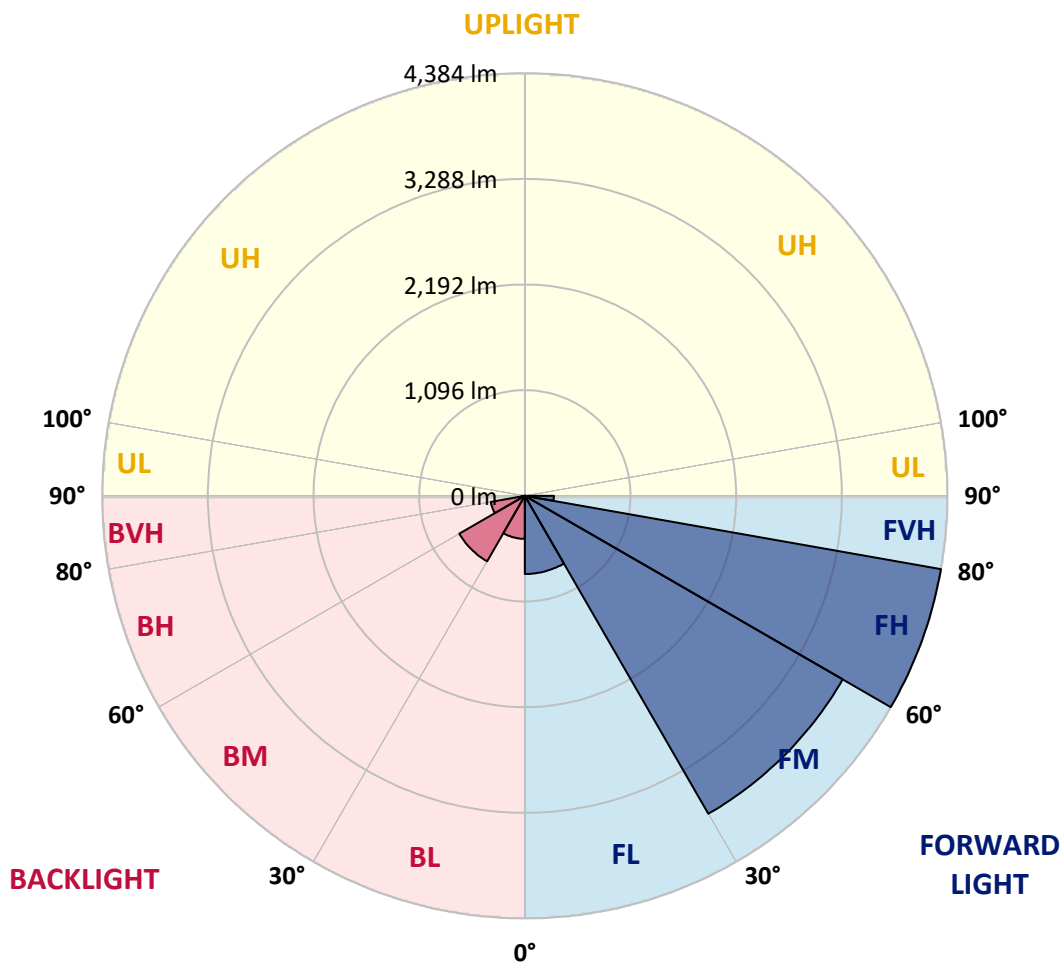
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	811.1	7.4			
FM (30°-60°)	3807.9	34.8			
FH (60°-80°)	4384.0	40.1			G2/5000
FVH (80°-90°)	301.6	2.8			G3/500
BL (0°-30°)	446.7	4.1	B1/500		
BM (30°-60°)	784.7	7.2	B1/1000		
BH (60°-80°)	358.9	3.3	B1/500		G1/500
BVH (80°-90°)	34.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1913.0	1913.0	1913.0	1913.0	1913.0	1913.0	1913.0	1913.0	1913.0	1913.0	1913.0
2.5°	1941.8	1945.9	1937.7	1929.5	1925.3	1908.9	1925.3	1917.1	1908.9	1908.9	1908.9
5°	1917.1	1921.2	1921.2	1913.0	1917.1	1888.4	1884.3	1888.4	1876.1	1867.9	1863.8
7.5°	1880.2	1888.4	1904.8	1900.7	1884.3	1872.0	1876.1	1872.0	1851.5	1839.1	1806.3
10°	1851.5	1859.7	1867.9	1876.1	1872.0	1867.9	1863.8	1847.3	1843.2	1814.5	1781.7
12.5°	1822.7	1822.7	1826.8	1859.7	1863.8	1863.8	1839.1	1839.1	1826.8	1822.7	1773.5
15°	1794.0	1806.3	1839.1	1847.3	1863.8	1872.0	1859.7	1859.7	1839.1	1810.4	1773.5
17.5°	1802.2	1822.7	1855.6	1876.1	1884.3	1884.3	1900.7	1888.4	1859.7	1843.2	1806.3
20°	1843.2	1847.3	1888.4	1925.3	1933.6	1933.6	1917.1	1904.8	1884.3	1855.6	1806.3
22.5°	1867.9	1896.6	1945.9	1966.4	1991.0	1991.0	1970.5	1941.8	1913.0	1884.3	1830.9
25°	1974.6	1978.7	1999.2	2032.1	2044.4	2028.0	2007.5	1974.6	1937.7	1908.9	1859.7
27.5°	2048.5	2069.0	2093.7	2110.1	2089.6	2077.2	2060.8	2023.9	1995.1	1970.5	1900.7
30°	2184.0	2159.3	2175.8	2184.0	2147.0	2155.2	2110.1	2077.2	2044.4	2044.4	1966.4
32.5°	2266.1	2286.6	2270.2	2266.1	2237.3	2233.2	2204.5	2167.6	2147.0	2171.7	2064.9
35°	2409.8	2397.4	2397.4	2393.3	2360.5	2340.0	2340.0	2274.3	2294.8	2348.2	2216.8
37.5°	2483.7	2479.6	2504.2	2524.7	2491.9	2504.2	2491.9	2463.1	2471.3	2565.8	2405.7
40°	2557.6	2586.3	2635.5	2643.8	2664.3	2680.7	2672.5	2668.4	2701.2	2853.1	2660.2
42.5°	2627.3	2652.0	2725.9	2791.5	2840.8	2894.2	2898.3	2898.3	3005.0	3222.6	2968.1
45°	2717.7	2738.2	2840.8	2972.2	3054.3	3091.2	3124.1	3161.0	3304.7	3563.3	3296.5
47.5°	2840.8	2857.2	2980.4	3144.6	3304.7	3325.2	3390.9	3432.0	3649.5	3912.3	3633.1
50°	3017.3	3005.0	3103.5	3341.6	3497.6	3596.2	3690.6	3764.5	3978.0	4265.3	3895.9
52.5°	3161.0	3161.0	3234.9	3551.0	3764.5	3858.9	3957.4	4060.1	4306.4	4618.4	4109.3
55°	3407.3	3382.7	3427.9	3756.3	4064.2	4154.5	4343.3	4429.5	4667.6	4881.1	4290.0
57.5°	3575.6	3588.0	3641.3	4027.2	4417.2	4528.1	4716.9	4778.5	4987.8	5156.2	4421.3
60°	3797.3	3756.3	3871.2	4326.9	4807.2	4963.2	5119.2	5156.2	5312.2	5332.7	4482.9
62.5°	4010.8	4002.6	4101.1	4626.6	5225.9	5336.8	5496.9	5537.9	5603.6	5472.3	4396.7
65°	4142.2	4195.5	4380.3	4955.0	5702.1	5825.3	5985.4	5903.3	5829.4	5349.1	3973.8
67.5°	4322.8	4347.4	4630.7	5312.2	6252.2	6437.0	6576.6	6252.2	5702.1	4844.2	3345.8
70°	4363.8	4429.5	4799.0	5685.7	6818.8	7007.6	7015.8	6133.2	5238.3	3941.0	2426.2
72.5°	4183.2	4228.4	4749.7	5841.7	7143.1	7282.7	6859.8	5546.1	4150.4	2483.7	1321.9
75°	3518.2	3645.4	4134.0	5361.4	6547.8	6494.5	5813.0	4232.5	2491.9	1100.2	558.3
77.5°	2450.8	2454.9	2964.0	3900.0	4901.6	4889.3	4146.3	2454.9	1067.4	443.4	328.4
80°	1087.9	1165.9	1473.8	2101.9	2976.3	2976.3	2418.0	1219.2	533.7	287.4	225.8
82.5°	640.4	665.0	788.2	981.1	1449.1	1527.1	1157.7	812.8	365.4	180.6	139.6
85°	472.1	513.2	587.0	591.2	685.6	697.9	640.4	706.1	250.4	98.5	114.9
87.5°	353.0	377.7	468.0	390.0	365.4	344.8	394.1	722.5	94.4	49.3	36.9
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°	1913.0	1913.0	1913.0	1913.0	1913.0	1913.0	1913.0	1913.0	1913.0	1913.0	1913.0
2.5°	1892.5	1892.5	1884.3	1867.9	1867.9	1835.0	1843.2	1851.5	1830.9	1830.9	1835.0
5°	1863.8	1847.3	1826.8	1802.2	1785.8	1740.6	1732.4	1703.7	1699.6	1691.3	1679.0
7.5°	1806.3	1781.7	1744.7	1707.8	1654.4	1613.4	1564.1	1523.0	1506.6	1494.3	1490.2
10°	1752.9	1748.8	1687.2	1613.4	1531.2	1453.2	1379.4	1326.0	1293.1	1272.6	1268.5
12.5°	1752.9	1720.1	1633.9	1531.2	1412.2	1297.2	1202.8	1128.9	1083.8	1050.9	1038.6
15°	1744.7	1711.9	1596.9	1440.9	1305.5	1149.5	1018.1	940.1	874.4	841.6	845.7
17.5°	1752.9	1703.7	1543.6	1375.2	1186.4	1018.1	862.1	767.7	702.0	677.4	673.3
20°	1757.0	1695.5	1502.5	1284.9	1063.3	874.4	726.6	636.3	587.0	570.6	570.6
22.5°	1748.8	1670.8	1440.9	1178.2	956.5	755.4	632.2	554.2	521.4	500.8	509.0
25°	1785.8	1666.7	1383.5	1087.9	833.4	656.8	562.4	504.9	484.4	472.1	476.2
27.5°	1794.0	1666.7	1338.3	985.3	726.6	582.9	509.0	472.1	455.7	447.5	443.4
30°	1826.8	1674.9	1284.9	882.6	640.4	525.5	468.0	447.5	435.2	431.0	431.0
32.5°	1917.1	1699.6	1227.5	796.4	566.5	476.2	439.3	422.8	414.6	410.5	414.6
35°	2023.9	1765.2	1165.9	706.1	513.2	443.4	414.6	402.3	398.2	398.2	398.2
37.5°	2188.1	1863.8	1112.5	632.2	468.0	410.5	390.0	385.9	381.8	385.9	385.9
40°	2376.9	1970.5	1063.3	574.7	435.2	390.0	369.5	369.5	365.4	369.5	373.6
42.5°	2594.5	2101.9	1014.0	517.3	406.4	373.6	357.2	353.0	348.9	357.2	361.3
45°	2894.2	2282.5	981.1	484.4	385.9	357.2	340.7	340.7	336.6	336.6	344.8
47.5°	3144.6	2454.9	981.1	451.6	373.6	344.8	328.4	328.4	320.2	324.3	324.3
50°	3354.0	2602.7	1001.7	443.4	357.2	332.5	320.2	312.0	307.9	307.9	307.9
52.5°	3493.5	2693.0	1018.1	435.2	348.9	316.1	307.9	303.8	295.6	291.5	295.6
55°	3633.1	2754.6	1022.2	435.2	336.6	299.7	291.5	291.5	283.3	279.2	279.2
57.5°	3686.5	2730.0	964.7	426.9	328.4	287.4	279.2	275.0	270.9	266.8	266.8
60°	3661.9	2639.7	837.5	406.4	320.2	279.2	262.7	262.7	262.7	254.5	258.6
62.5°	3493.5	2331.8	673.3	373.6	307.9	262.7	246.3	254.5	254.5	250.4	250.4
65°	3050.2	1925.3	546.0	344.8	291.5	250.4	234.0	246.3	250.4	246.3	242.2
67.5°	2438.5	1482.0	451.6	312.0	270.9	229.9	217.6	229.9	234.0	229.9	229.9
70°	1674.9	956.5	365.4	279.2	242.2	209.4	197.1	205.3	205.3	209.4	209.4
72.5°	866.2	517.3	299.7	238.1	209.4	188.8	176.5	176.5	172.4	172.4	172.4
75°	431.0	353.0	250.4	201.2	176.5	160.1	151.9	143.7	143.7	143.7	143.7
77.5°	299.7	270.9	205.3	160.1	143.7	131.4	131.4	119.1	119.1	119.1	119.1
80°	225.8	213.5	156.0	123.2	110.8	102.6	102.6	98.5	98.5	94.4	94.4
82.5°	160.1	172.4	119.1	90.3	82.1	78.0	78.0	73.9	73.9	65.7	65.7
85°	127.3	143.7	90.3	65.7	61.6	53.4	53.4	49.3	49.3	45.2	41.1
87.5°	36.9	78.0	36.9	24.6	24.6	24.6	24.6	20.5	20.5	16.4	16.4
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)