

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: P675696

Luminaire Tested: **CCW-SA-2D-735-U-SL4**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675696
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-735-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SL4 distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

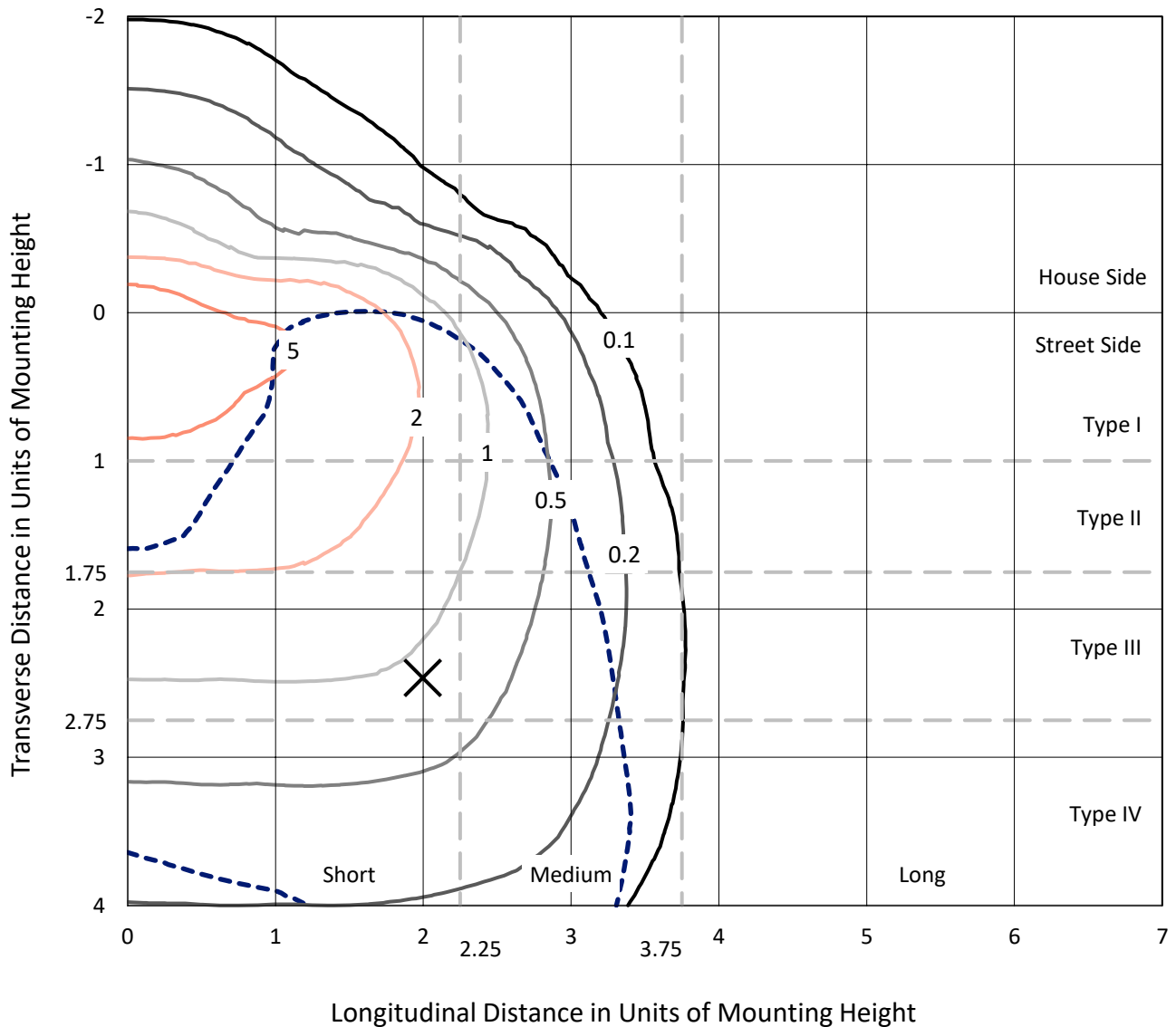
Lumens per Lamp: N/A
Luminaire Lumens: 10779.1 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

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

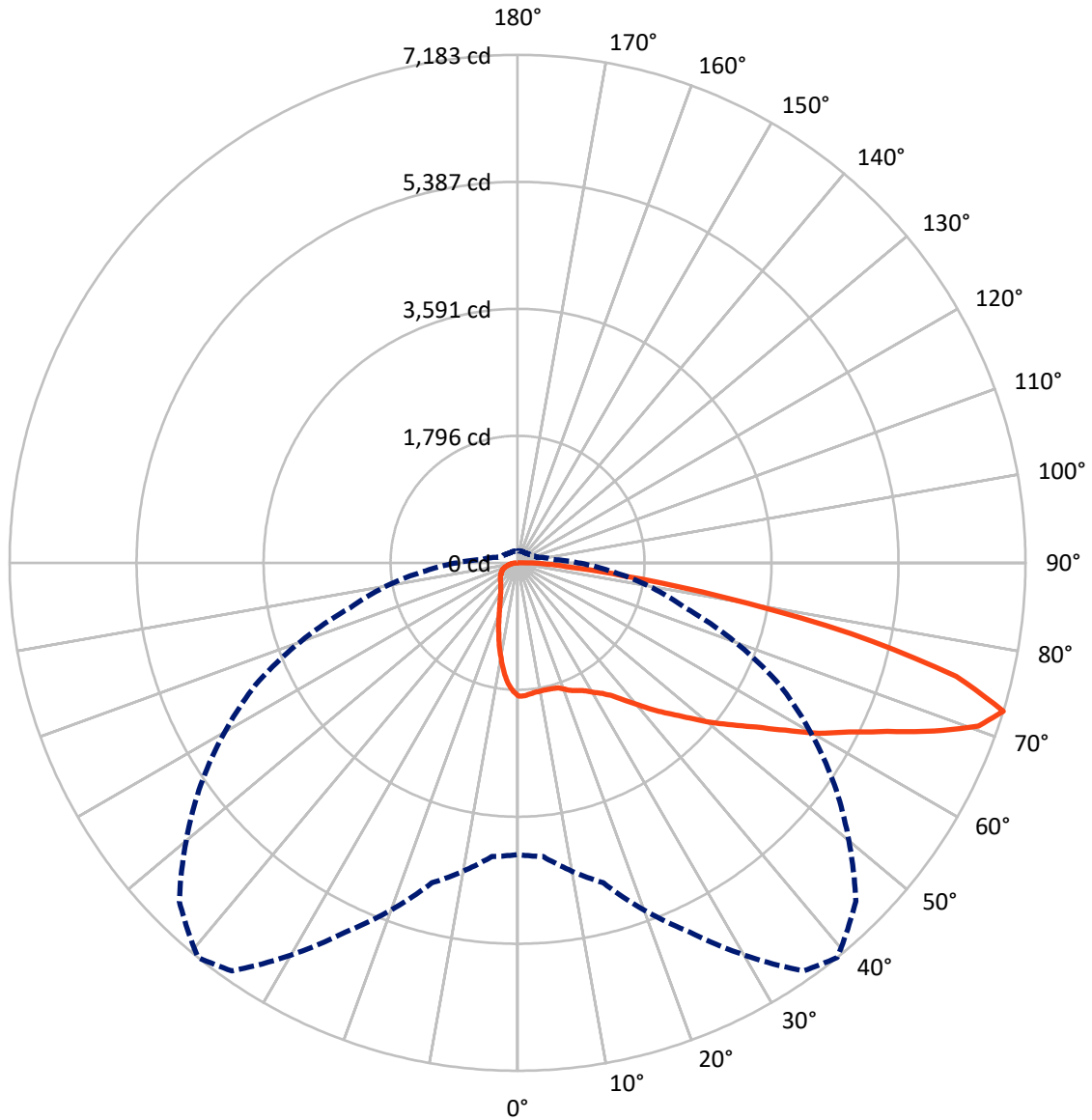
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.4 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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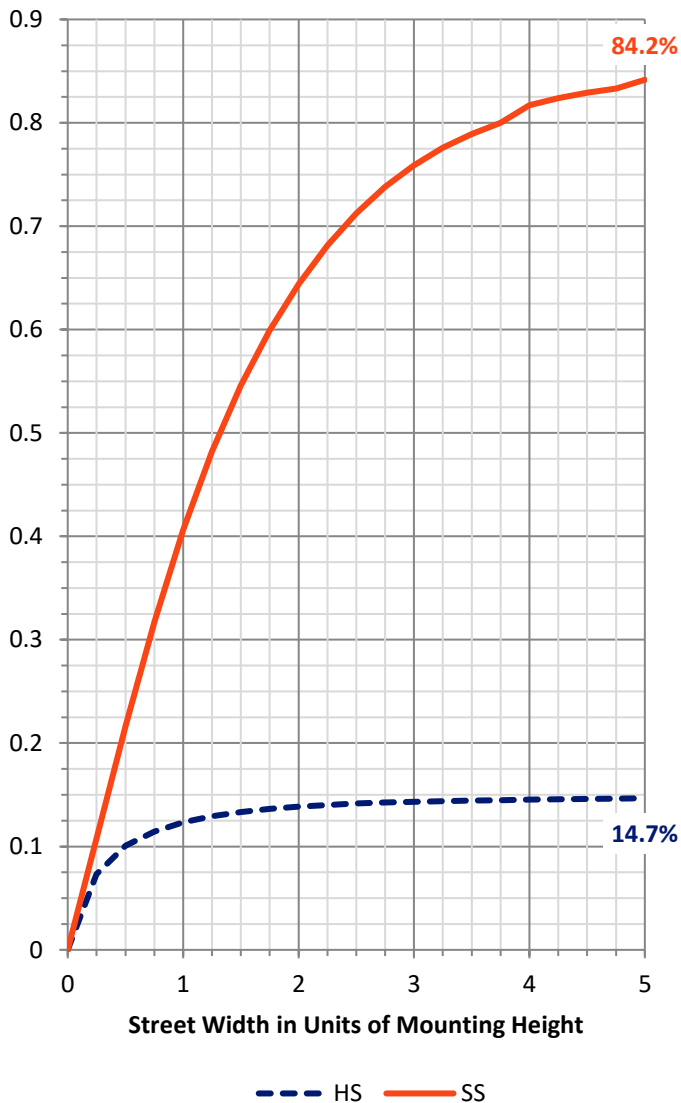
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1602.0	0.0	1602.0
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	9177.1	0.0	9177.1
	% Fixture	85.1	0.0	85.1
Total	Lumens	10779.1	0.0	10779.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.7	1.5
10°-20°	425.5	3.9
20°-30°	648.3	6.0
30°-40°	948.3	8.8
40°-50°	1451.9	13.5
50°-60°	2129.4	19.8
60°-70°	2715.8	25.2
70°-80°	1962.2	18.2
80°-90°	331.0	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°	10779.1	100.0
0°-180°	10779.1	100.0



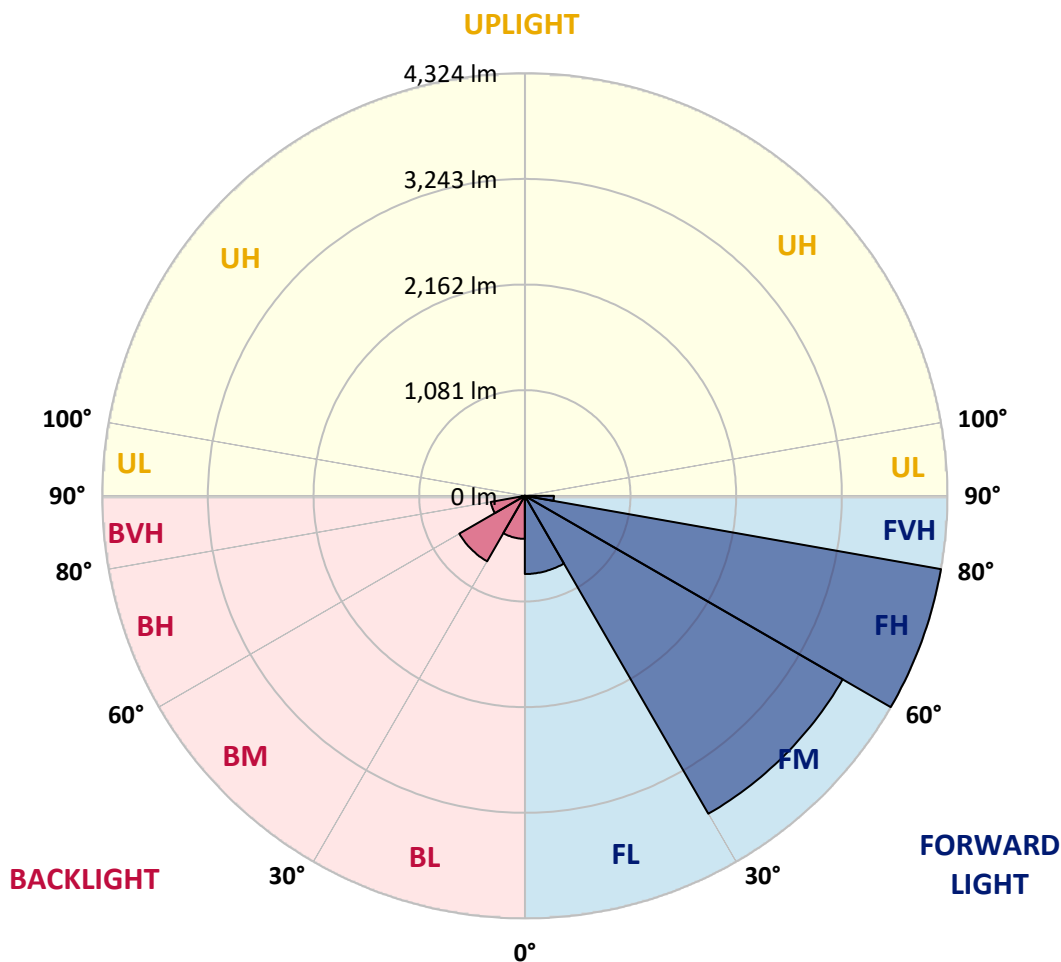
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	800.0	7.4			
FM (30°-60°)	3755.7	34.8			
FH (60°-80°)	4324.0	40.1			G2/5000
FVH (80°-90°)	297.5	2.8			G3/500
BL (0°-30°)	440.6	4.1	B1/500		
BM (30°-60°)	773.9	7.2	B1/1000		
BH (60°-80°)	354.0	3.3	B1/500		G1/500
BVH (80°-90°)	33.5	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°	1886.8	1886.8	1886.8	1886.8	1886.8	1886.8	1886.8	1886.8	1886.8	1886.8	1886.8
2.5°	1915.2	1919.2	1911.1	1903.0	1899.0	1882.8	1899.0	1890.9	1882.8	1882.8	1882.8
5°	1890.9	1894.9	1894.9	1886.8	1890.9	1862.5	1858.5	1862.5	1850.4	1842.3	1838.2
7.5°	1854.4	1862.5	1878.7	1874.7	1858.5	1846.3	1850.4	1846.3	1826.1	1813.9	1781.5
10°	1826.1	1834.2	1842.3	1850.4	1846.3	1842.3	1838.2	1822.0	1818.0	1789.6	1757.3
12.5°	1797.7	1797.7	1801.8	1834.2	1838.2	1838.2	1813.9	1813.9	1801.8	1797.7	1749.2
15°	1769.4	1781.5	1813.9	1822.0	1838.2	1846.3	1834.2	1834.2	1813.9	1785.6	1749.2
17.5°	1777.5	1797.7	1830.1	1850.4	1858.5	1858.5	1874.7	1862.5	1834.2	1818.0	1781.5
20°	1818.0	1822.0	1862.5	1899.0	1907.1	1907.1	1890.9	1878.7	1858.5	1830.1	1781.5
22.5°	1842.3	1870.6	1919.2	1939.5	1963.8	1963.8	1943.5	1915.2	1886.8	1858.5	1805.8
25°	1947.6	1951.6	1971.9	2004.2	2016.4	2000.2	1979.9	1947.6	1911.1	1882.8	1834.2
27.5°	2020.4	2040.7	2065.0	2081.2	2060.9	2048.8	2032.6	1996.1	1967.8	1943.5	1874.7
30°	2154.1	2129.8	2146.0	2154.1	2117.6	2125.7	2081.2	2048.8	2016.4	2016.4	1939.5
32.5°	2235.0	2255.3	2239.1	2235.0	2206.7	2202.6	2174.3	2137.9	2117.6	2141.9	2036.6
35°	2376.7	2364.6	2364.6	2360.6	2328.2	2307.9	2307.9	2243.1	2263.4	2316.0	2186.4
37.5°	2449.6	2445.6	2469.9	2490.1	2457.7	2469.9	2457.7	2429.4	2437.5	2530.6	2372.7
40°	2522.5	2550.9	2599.4	2607.5	2627.8	2644.0	2635.9	2631.8	2664.2	2814.0	2623.7
42.5°	2591.3	2615.6	2688.5	2753.3	2801.9	2854.5	2858.6	2858.6	2963.9	3178.4	2927.4
45°	2680.4	2700.7	2801.9	2931.5	3012.4	3048.9	3081.3	3117.7	3259.4	3514.5	3251.3
47.5°	2801.9	2818.1	2939.6	3101.5	3259.4	3279.7	3344.5	3384.9	3599.5	3858.7	3583.3
50°	2976.0	2963.9	3061.0	3295.9	3449.7	3546.9	3640.0	3712.9	3923.5	4206.9	3842.5
52.5°	3117.7	3117.7	3190.6	3502.4	3712.9	3806.0	3903.2	4004.4	4247.4	4555.1	4053.0
55°	3360.6	3336.4	3380.9	3704.8	4008.5	4097.6	4283.8	4368.8	4603.7	4814.2	4231.2
57.5°	3526.7	3538.8	3591.4	3972.0	4356.7	4466.0	4652.3	4713.0	4919.5	5085.5	4360.7
60°	3745.3	3704.8	3818.2	4267.6	4741.4	4895.2	5049.1	5085.5	5239.4	5259.6	4421.5
62.5°	3955.8	3947.8	4044.9	4563.2	5154.3	5263.7	5421.6	5462.1	5526.9	5397.3	4336.5
65°	4085.4	4138.1	4320.3	4887.1	5624.0	5745.5	5903.4	5822.4	5749.5	5275.8	3919.4
67.5°	4263.6	4287.9	4567.2	5239.4	6166.6	6348.8	6486.5	6166.6	5624.0	4777.8	3299.9
70°	4304.1	4368.8	4733.3	5607.8	6725.3	6911.6	6919.7	6049.2	5166.5	3887.0	2392.9
72.5°	4125.9	4170.4	4684.7	5761.7	7045.2	7182.9	6765.8	5470.2	4093.5	2449.6	1303.8
75°	3470.0	3595.5	4077.3	5288.0	6458.1	6405.5	5733.3	4174.5	2457.7	1085.1	550.7
77.5°	2417.2	2421.3	2923.4	3846.5	4834.5	4822.3	4089.5	2421.3	1052.7	437.3	323.9
80°	1073.0	1149.9	1453.6	2073.1	2935.5	2935.5	2384.8	1202.5	526.4	283.4	222.7
82.5°	631.6	655.9	777.4	967.7	1429.3	1506.2	1141.8	801.7	360.4	178.2	137.7
85°	465.6	506.1	579.0	583.1	676.2	688.3	631.6	696.4	247.0	97.2	113.4
87.5°	348.2	372.5	461.6	384.7	360.4	340.1	388.7	712.6	93.1	48.6	36.4
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°	1886.8	1886.8	1886.8	1886.8	1886.8	1886.8	1886.8	1886.8	1886.8	1886.8	1886.8
2.5°	1866.6	1866.6	1858.5	1842.3	1842.3	1809.9	1818.0	1826.1	1805.8	1805.8	1809.9
5°	1838.2	1822.0	1801.8	1777.5	1761.3	1716.8	1708.7	1680.3	1676.3	1668.2	1656.0
7.5°	1781.5	1757.3	1720.8	1684.4	1631.7	1591.2	1542.7	1502.2	1486.0	1473.8	1469.8
10°	1728.9	1724.9	1664.1	1591.2	1510.3	1433.3	1360.5	1307.8	1275.4	1255.2	1251.1
12.5°	1728.9	1696.5	1611.5	1510.3	1392.8	1279.5	1186.3	1113.5	1068.9	1036.5	1024.4
15°	1720.8	1688.4	1575.1	1421.2	1287.6	1133.7	1004.1	927.2	862.4	830.0	834.1
17.5°	1728.9	1680.3	1522.4	1356.4	1170.2	1004.1	850.3	757.2	692.4	668.1	664.0
20°	1733.0	1672.2	1481.9	1267.3	1048.7	862.4	716.7	627.6	579.0	562.8	562.8
22.5°	1724.9	1647.9	1421.2	1162.1	943.4	745.0	623.5	546.6	514.2	494.0	502.1
25°	1761.3	1643.9	1364.5	1073.0	821.9	647.8	554.7	498.0	477.8	465.6	469.7
27.5°	1769.4	1643.9	1320.0	971.8	716.7	575.0	502.1	465.6	449.4	441.3	437.3
30°	1801.8	1652.0	1267.3	870.5	631.6	518.3	461.6	441.3	429.2	425.1	425.1
32.5°	1890.9	1676.3	1210.6	785.5	558.8	469.7	433.2	417.0	408.9	404.9	408.9
35°	1996.1	1741.1	1149.9	696.4	506.1	437.3	408.9	396.8	392.8	392.8	392.8
37.5°	2158.1	1838.2	1097.3	623.5	461.6	404.9	384.7	380.6	376.6	380.6	380.6
40°	2344.4	1943.5	1048.7	566.9	429.2	384.7	364.4	364.4	360.4	364.4	368.5
42.5°	2559.0	2073.1	1000.1	510.2	400.8	368.5	352.3	348.2	344.2	352.3	356.3
45°	2854.5	2251.2	967.7	477.8	380.6	352.3	336.1	336.1	332.0	332.0	340.1
47.5°	3101.5	2421.3	967.7	445.4	368.5	340.1	323.9	323.9	315.8	319.9	319.9
50°	3308.0	2567.1	988.0	437.3	352.3	328.0	315.8	307.7	303.7	303.7	303.7
52.5°	3445.7	2656.1	1004.1	429.2	344.2	311.8	303.7	299.6	291.5	287.5	291.5
55°	3583.3	2716.9	1008.2	429.2	332.0	295.6	287.5	287.5	279.4	275.3	275.3
57.5°	3636.0	2692.6	951.5	421.1	323.9	283.4	275.3	271.3	267.2	263.2	263.2
60°	3611.7	2603.5	826.0	400.8	315.8	275.3	259.1	259.1	259.1	251.0	255.1
62.5°	3445.7	2299.8	664.0	368.5	303.7	259.1	242.9	251.0	251.0	247.0	247.0
65°	3008.4	1899.0	538.5	340.1	287.5	247.0	230.8	242.9	247.0	242.9	238.9
67.5°	2405.1	1461.7	445.4	307.7	267.2	226.7	214.6	226.7	230.8	226.7	226.7
70°	1652.0	943.4	360.4	275.3	238.9	206.5	194.4	202.4	202.4	206.5	206.5
72.5°	854.3	510.2	295.6	234.8	206.5	186.3	174.1	174.1	170.1	170.1	170.1
75°	425.1	348.2	247.0	198.4	174.1	157.9	149.8	141.7	141.7	141.7	141.7
77.5°	295.6	267.2	202.4	157.9	141.7	129.6	129.6	117.4	117.4	117.4	117.4
80°	222.7	210.5	153.9	121.5	109.3	101.2	101.2	97.2	97.2	93.1	93.1
82.5°	157.9	170.1	117.4	89.1	81.0	76.9	76.9	72.9	72.9	64.8	64.8
85°	125.5	141.7	89.1	64.8	60.7	52.6	52.6	48.6	48.6	44.5	40.5
87.5°	36.4	76.9	36.4	24.3	24.3	24.3	24.3	20.2	20.2	16.2	16.2
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)