

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: P675729

Luminaire Tested: **CCW-SA-2D-760-U-SL4**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675729  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2D-760-U-SL4  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/  
SL4 distribution lens  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

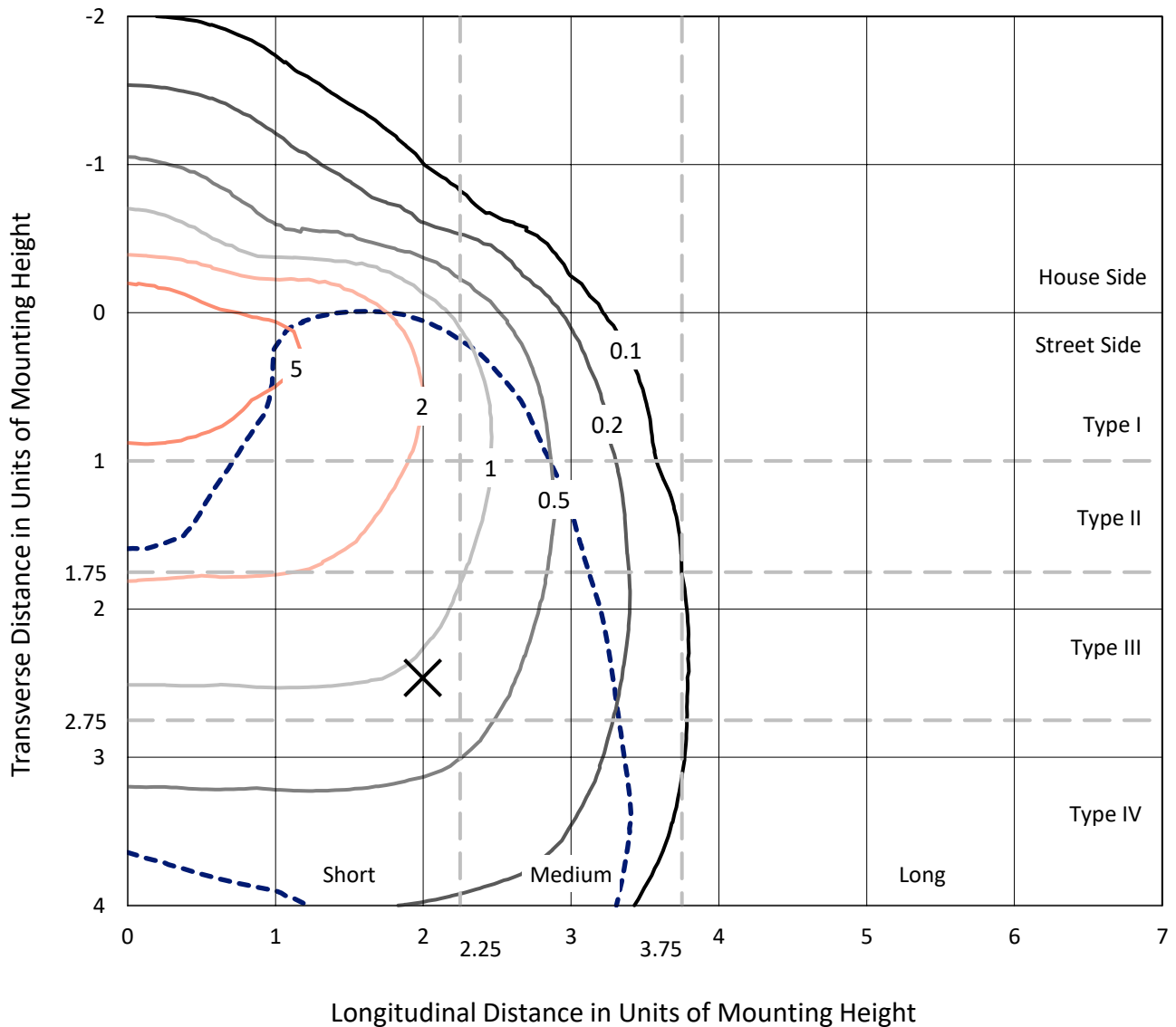
Lumens per Lamp: N/A  
Luminaire Lumens: 11179.1 lumens  
Efficiency: N/A  
Efficacy: 138.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

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

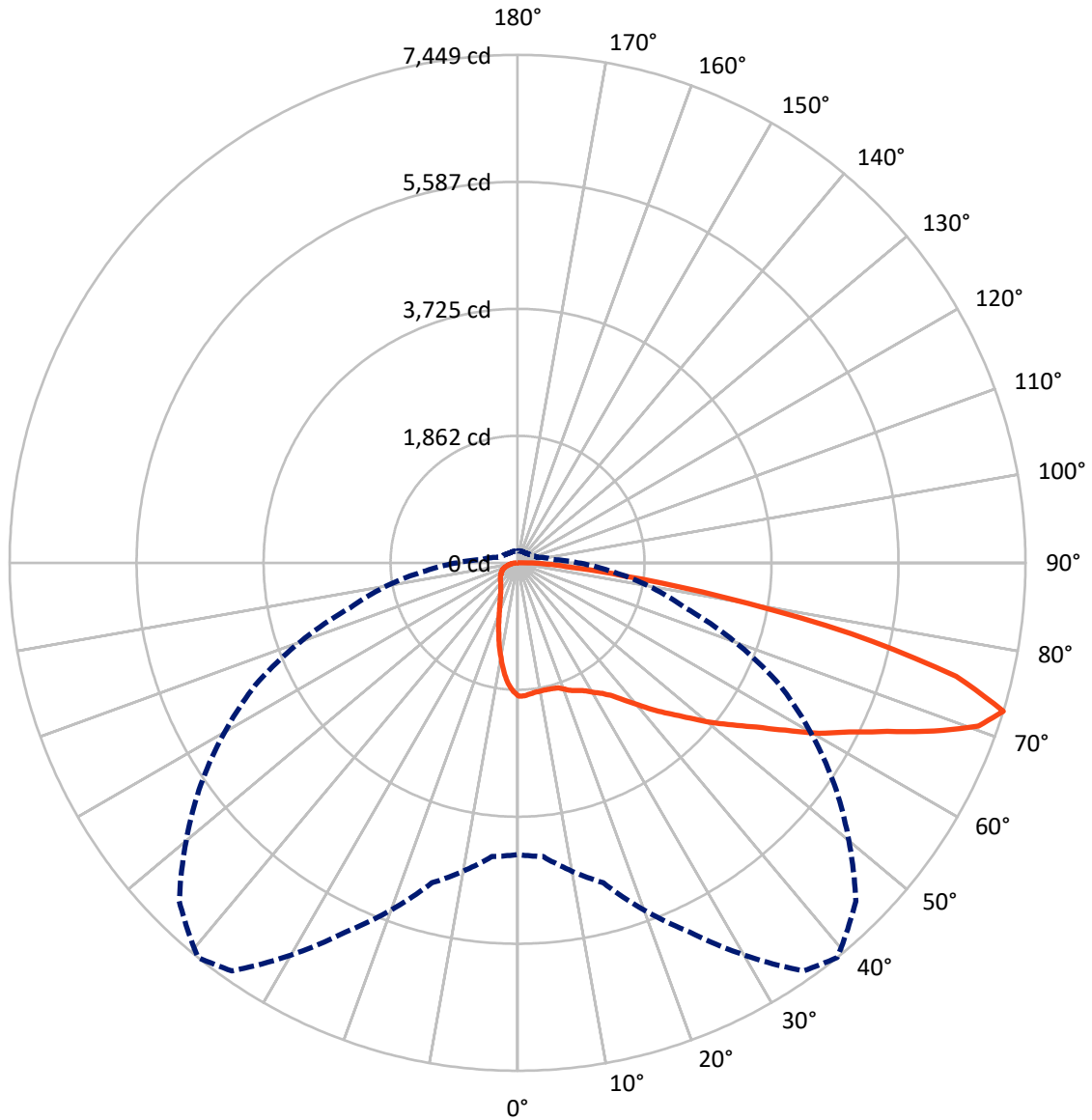
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.7 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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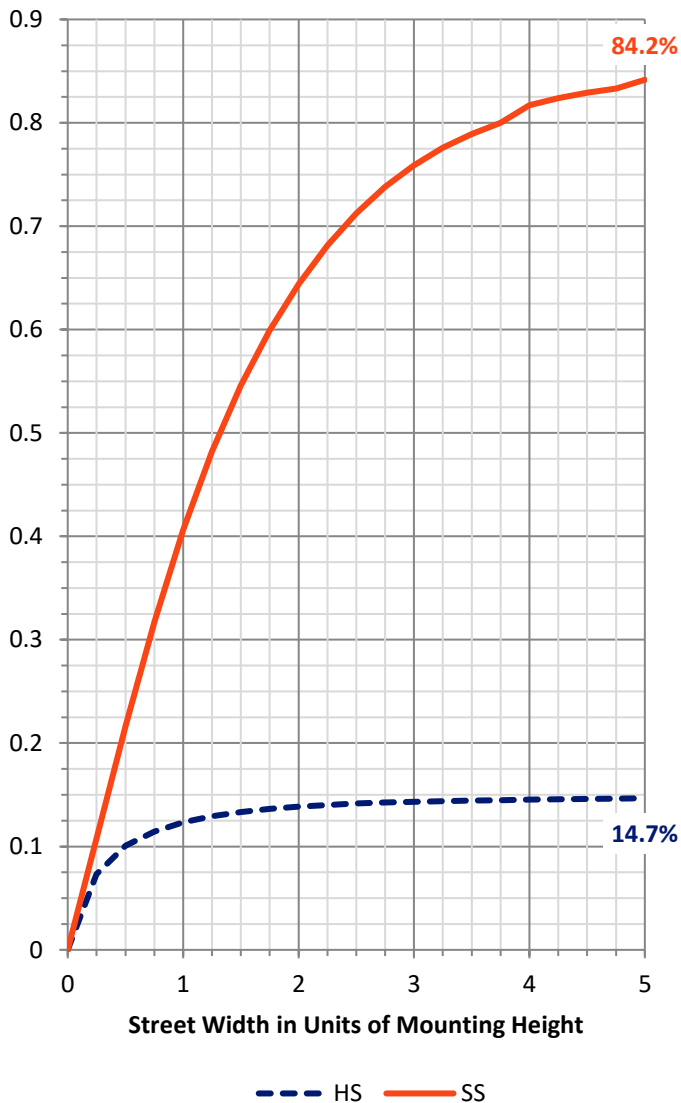
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1661.4	0.0	1661.4
	% Fixture	14.9	0.0	14.9
<b>Street Side</b>	Lumens	9517.7	0.0	9517.7
	% Fixture	85.1	0.0	85.1
<b>Total</b>	Lumens	11179.1	0.0	11179.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.9	1.5
10°-20°	441.3	3.9
20°-30°	672.4	6.0
30°-40°	983.5	8.8
40°-50°	1505.8	13.5
50°-60°	2208.4	19.8
60°-70°	2816.5	25.2
70°-80°	2035.0	18.2
80°-90°	343.3	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°	11179.1	100.0
0°-180°	11179.1	100.0

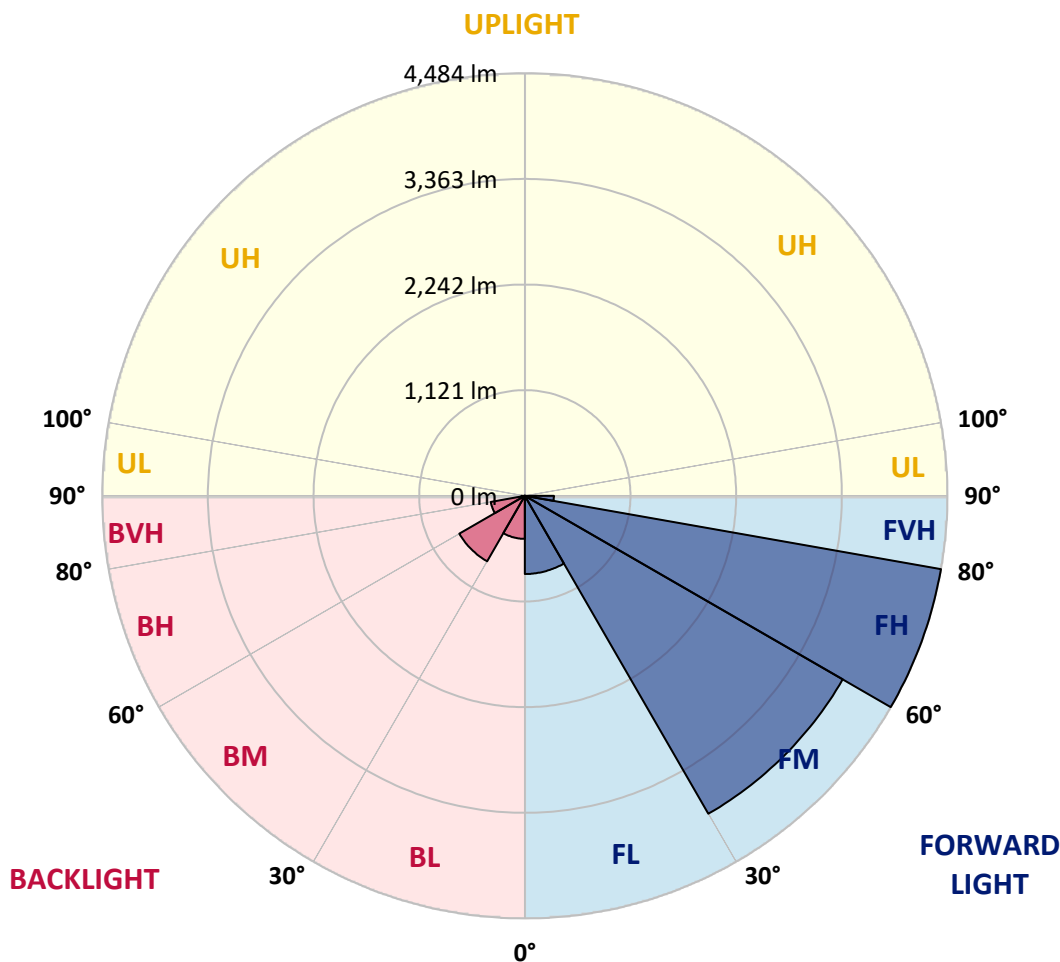


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	829.7	7.4			
FM (30°-60°)	3895.1	34.8			
FH (60°-80°)	4484.4	40.1			G2/5000
FVH (80°-90°)	308.5	2.8			G3/500
BL (0°-30°)	456.9	4.1	B1/500		
BM (30°-60°)	802.6	7.2	B1/1000		
BH (60°-80°)	367.1	3.3	B1/500		G1/500
BVH (80°-90°)	34.8	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°	1956.8	1956.8	1956.8	1956.8	1956.8	1956.8	1956.8	1956.8	1956.8	1956.8	1956.8
2.5°	1986.2	1990.4	1982.0	1973.6	1969.4	1952.6	1969.4	1961.0	1952.6	1952.6	1952.6
5°	1961.0	1965.2	1965.2	1956.8	1961.0	1931.6	1927.4	1931.6	1919.0	1910.6	1906.4
7.5°	1923.2	1931.6	1948.4	1944.2	1927.4	1914.8	1919.0	1914.8	1893.9	1881.3	1847.7
10°	1893.9	1902.2	1910.6	1919.0	1914.8	1910.6	1906.4	1889.7	1885.5	1856.1	1822.5
12.5°	1864.5	1864.5	1868.7	1902.2	1906.4	1906.4	1881.3	1881.3	1868.7	1864.5	1814.1
15°	1835.1	1847.7	1881.3	1889.7	1906.4	1914.8	1902.2	1902.2	1881.3	1851.9	1814.1
17.5°	1843.5	1864.5	1898.1	1919.0	1927.4	1927.4	1944.2	1931.6	1902.2	1885.5	1847.7
20°	1885.5	1889.7	1931.6	1969.4	1977.8	1977.8	1961.0	1948.4	1927.4	1898.1	1847.7
22.5°	1910.6	1940.0	1990.4	2011.4	2036.6	2036.6	2015.6	1986.2	1956.8	1927.4	1872.9
25°	2019.8	2024.0	2045.0	2078.6	2091.2	2074.4	2053.4	2019.8	1982.0	1952.6	1902.2
27.5°	2095.4	2116.4	2141.6	2158.4	2137.4	2124.8	2108.0	2070.2	2040.8	2015.6	1944.2
30°	2234.0	2208.8	2225.6	2234.0	2196.2	2204.6	2158.4	2124.8	2091.2	2091.2	2011.4
32.5°	2318.0	2339.0	2322.2	2318.0	2288.6	2284.4	2255.0	2217.2	2196.2	2221.4	2112.2
35°	2464.9	2452.3	2452.3	2448.1	2414.6	2393.6	2393.6	2326.4	2347.4	2402.0	2267.6
37.5°	2540.5	2536.3	2561.5	2582.5	2548.9	2561.5	2548.9	2519.5	2527.9	2624.5	2460.7
40°	2616.1	2645.5	2695.9	2704.3	2725.3	2742.1	2733.7	2729.5	2763.1	2918.5	2721.1
42.5°	2687.5	2712.7	2788.3	2855.5	2905.9	2960.5	2964.7	2964.7	3073.8	3296.4	3036.0
45°	2779.9	2800.9	2905.9	3040.2	3124.2	3162.0	3195.6	3233.4	3380.4	3644.9	3372.0
47.5°	2905.9	2922.7	3048.6	3216.6	3380.4	3401.4	3468.6	3510.6	3733.1	4001.9	3716.3
50°	3086.4	3073.8	3174.6	3418.2	3577.7	3678.5	3775.1	3850.7	4069.1	4363.0	3985.1
52.5°	3233.4	3233.4	3309.0	3632.3	3850.7	3947.3	4048.1	4153.0	4405.0	4724.1	4203.4
55°	3485.4	3460.2	3506.4	3842.3	4157.2	4249.6	4442.8	4531.0	4774.5	4992.9	4388.2
57.5°	3657.5	3670.1	3724.7	4119.4	4518.4	4631.7	4824.9	4887.9	5102.1	5274.2	4522.6
60°	3884.3	3842.3	3959.9	4426.0	4917.3	5076.9	5236.4	5274.2	5433.8	5454.8	4585.6
62.5°	4102.6	4094.2	4195.0	4732.5	5345.6	5459.0	5622.8	5664.8	5731.9	5597.6	4497.4
65°	4237.0	4291.6	4480.6	5068.5	5832.7	5958.7	6122.5	6038.5	5962.9	5471.6	4064.9
67.5°	4421.8	4447.0	4736.7	5433.8	6395.4	6584.4	6727.2	6395.4	5832.7	4955.1	3422.4
70°	4463.8	4531.0	4908.9	5815.9	6974.9	7168.1	7176.5	6273.6	5358.2	4031.3	2481.7
72.5°	4279.0	4325.2	4858.5	5975.5	7306.7	7449.4	7016.9	5673.2	4245.4	2540.5	1352.2
75°	3598.7	3728.9	4228.6	5484.2	6697.8	6643.2	5946.1	4329.4	2548.9	1125.4	571.1
77.5°	2506.9	2511.1	3031.8	3989.3	5013.9	5001.3	4241.2	2511.1	1091.8	453.5	335.9
80°	1112.8	1192.6	1507.5	2150.0	3044.4	3044.4	2473.3	1247.2	545.9	293.9	231.0
82.5°	655.1	680.3	806.3	1003.6	1482.3	1562.1	1184.2	831.4	373.7	184.8	142.8
85°	482.9	524.9	600.5	604.7	701.3	713.9	655.1	722.3	256.2	100.8	117.6
87.5°	361.1	386.3	478.7	398.9	373.7	352.7	403.1	739.1	96.6	50.4	37.8
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°	1956.8	1956.8	1956.8	1956.8	1956.8	1956.8	1956.8	1956.8	1956.8	1956.8	1956.8
2.5°	1935.8	1935.8	1927.4	1910.6	1910.6	1877.1	1885.5	1893.9	1872.9	1872.9	1877.1
5°	1906.4	1889.7	1868.7	1843.5	1826.7	1780.5	1772.1	1742.7	1738.5	1730.1	1717.5
7.5°	1847.7	1822.5	1784.7	1746.9	1692.3	1650.3	1599.9	1557.9	1541.1	1528.5	1524.3
10°	1793.1	1788.9	1725.9	1650.3	1566.3	1486.5	1410.9	1356.4	1322.8	1301.8	1297.6
12.5°	1793.1	1759.5	1671.3	1566.3	1444.5	1327.0	1230.4	1154.8	1108.6	1075.0	1062.4
15°	1784.7	1751.1	1633.5	1473.9	1335.4	1175.8	1041.4	961.6	894.4	860.8	865.0
17.5°	1793.1	1742.7	1578.9	1406.7	1213.6	1041.4	881.8	785.3	718.1	692.9	688.7
20°	1797.3	1734.3	1536.9	1314.4	1087.6	894.4	743.3	650.9	600.5	583.7	583.7
22.5°	1788.9	1709.1	1473.9	1205.2	978.4	772.7	646.7	566.9	533.3	512.3	520.7
25°	1826.7	1704.9	1415.1	1112.8	852.4	671.9	575.3	516.5	495.5	482.9	487.1
27.5°	1835.1	1704.9	1368.9	1007.8	743.3	596.3	520.7	482.9	466.1	457.7	453.5
30°	1868.7	1713.3	1314.4	902.8	655.1	537.5	478.7	457.7	445.1	440.9	440.9
32.5°	1961.0	1738.5	1255.6	814.6	579.5	487.1	449.3	432.5	424.1	419.9	424.1
35°	2070.2	1805.7	1192.6	722.3	524.9	453.5	424.1	411.5	407.3	407.3	407.3
37.5°	2238.2	1906.4	1138.0	646.7	478.7	419.9	398.9	394.7	390.5	394.7	394.7
40°	2431.4	2015.6	1087.6	587.9	445.1	398.9	377.9	377.9	373.7	377.9	382.1
42.5°	2653.9	2150.0	1037.2	529.1	415.7	382.1	365.3	361.1	356.9	365.3	369.5
45°	2960.5	2334.8	1003.6	495.5	394.7	365.3	348.5	348.5	344.3	344.3	352.7
47.5°	3216.6	2511.1	1003.6	461.9	382.1	352.7	335.9	335.9	327.5	331.7	331.7
50°	3430.8	2662.3	1024.6	453.5	365.3	340.1	327.5	319.1	314.9	314.9	314.9
52.5°	3573.5	2754.7	1041.4	445.1	356.9	323.3	314.9	310.7	302.3	298.1	302.3
55°	3716.3	2817.7	1045.6	445.1	344.3	306.5	298.1	298.1	289.7	285.5	285.5
57.5°	3770.9	2792.5	986.8	436.7	335.9	293.9	285.5	281.3	277.1	272.9	272.9
60°	3745.7	2700.1	856.6	415.7	327.5	285.5	268.8	268.8	268.8	260.4	264.6
62.5°	3573.5	2385.2	688.7	382.1	314.9	268.8	252.0	260.4	260.4	256.2	256.2
65°	3120.0	1969.4	558.5	352.7	298.1	256.2	239.4	252.0	256.2	252.0	247.8
67.5°	2494.3	1515.9	461.9	319.1	277.1	235.2	222.6	235.2	239.4	235.2	235.2
70°	1713.3	978.4	373.7	285.5	247.8	214.2	201.6	210.0	210.0	214.2	214.2
72.5°	886.0	529.1	306.5	243.6	214.2	193.2	180.6	180.6	176.4	176.4	176.4
75°	440.9	361.1	256.2	205.8	180.6	163.8	155.4	147.0	147.0	147.0	147.0
77.5°	306.5	277.1	210.0	163.8	147.0	134.4	134.4	121.8	121.8	121.8	121.8
80°	231.0	218.4	159.6	126.0	113.4	105.0	105.0	100.8	100.8	96.6	96.6
82.5°	163.8	176.4	121.8	92.4	84.0	79.8	79.8	75.6	75.6	67.2	67.2
85°	130.2	147.0	92.4	67.2	63.0	54.6	54.6	50.4	50.4	46.2	42.0
87.5°	37.8	79.8	37.8	25.2	25.2	25.2	25.2	21.0	21.0	16.8	16.8
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)