

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: P675187

Luminaire Tested: **CCW-SA-2E-835-U-T4FT**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675187
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-835-U-T4FT
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
T4FT distribution lens
Light Source: (32) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

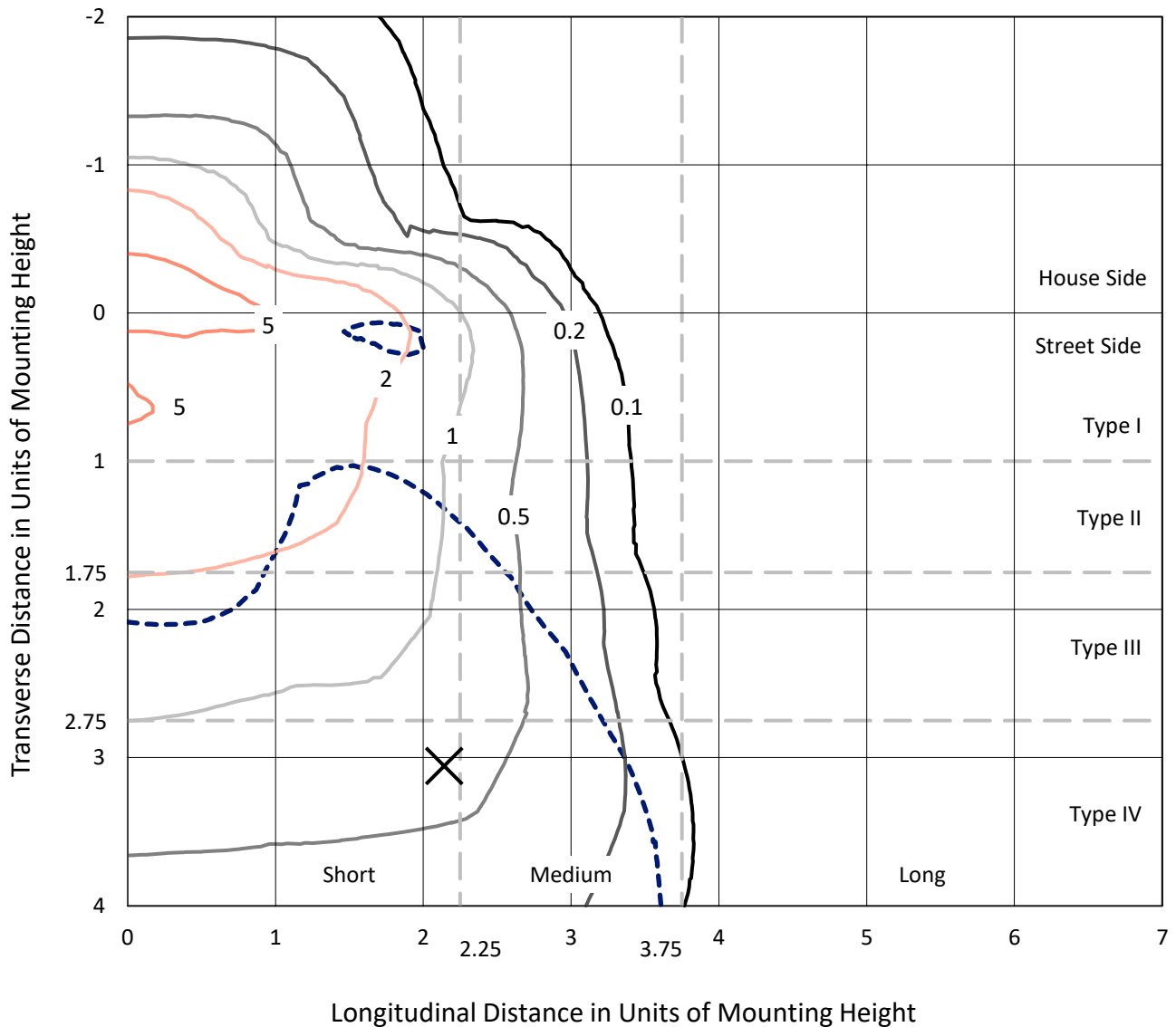
Lumens per Lamp: N/A
Luminaire Lumens: 11259.6 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 106.6
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

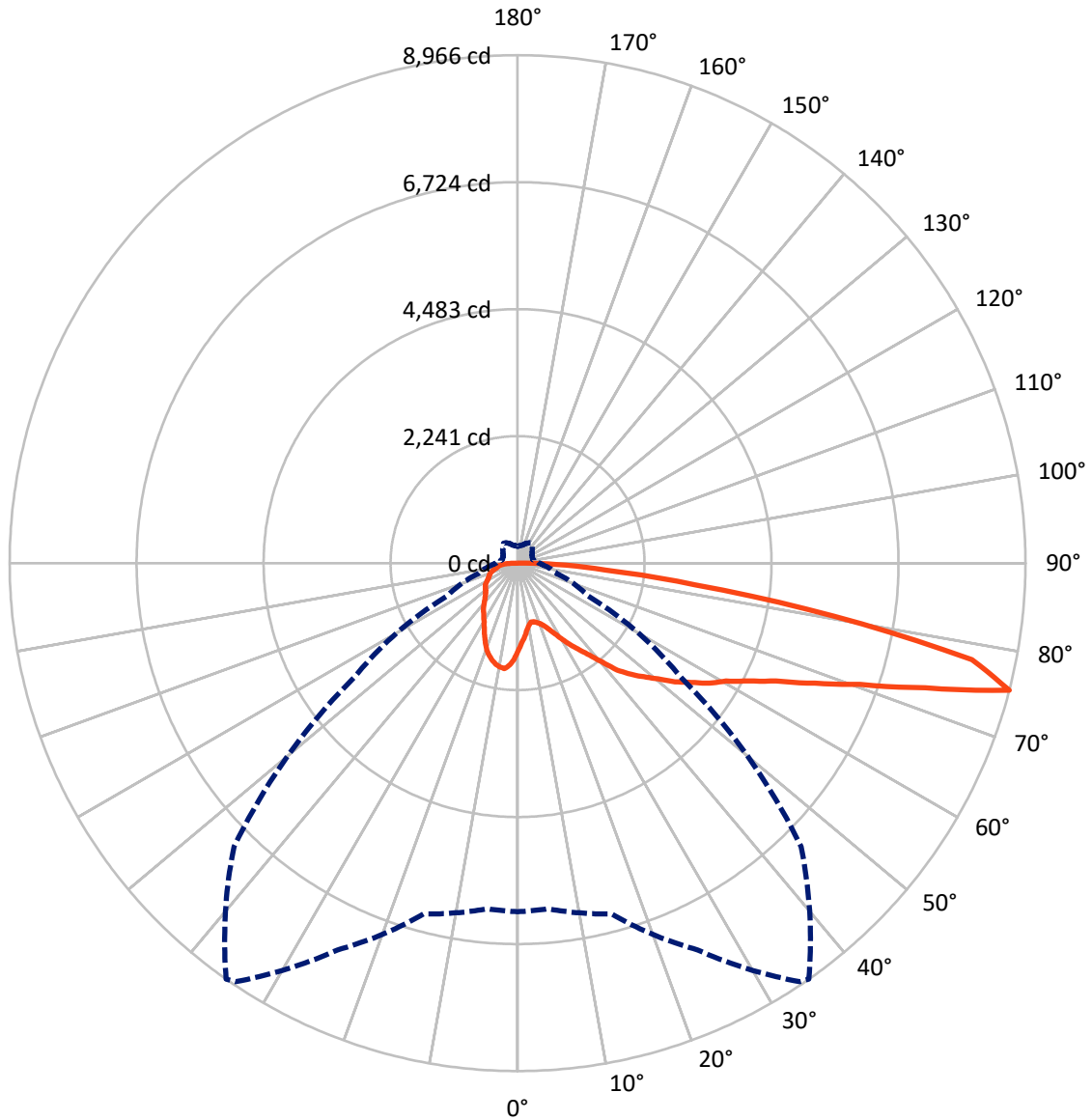
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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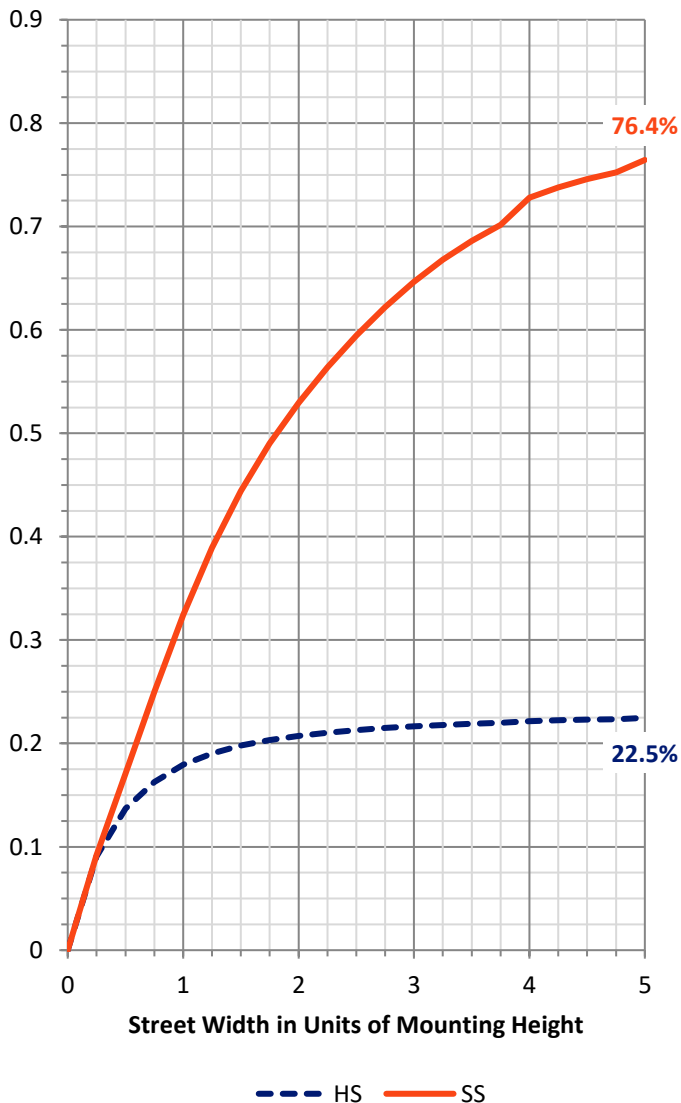
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2587.8	0.0	2587.8
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	8671.9	0.0	8671.9
	% Fixture	77.0	0.0	77.0
Total	Lumens	11259.6	0.0	11259.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.0	1.3
10°-20°	426.6	3.8
20°-30°	707.9	6.3
30°-40°	1049.3	9.3
40°-50°	1513.0	13.4
50°-60°	2080.6	18.5
60°-70°	2570.0	22.8
70°-80°	2351.2	20.9
80°-90°	413.9	3.7
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°	11259.6	100.0
0°-180°	11259.6	100.0



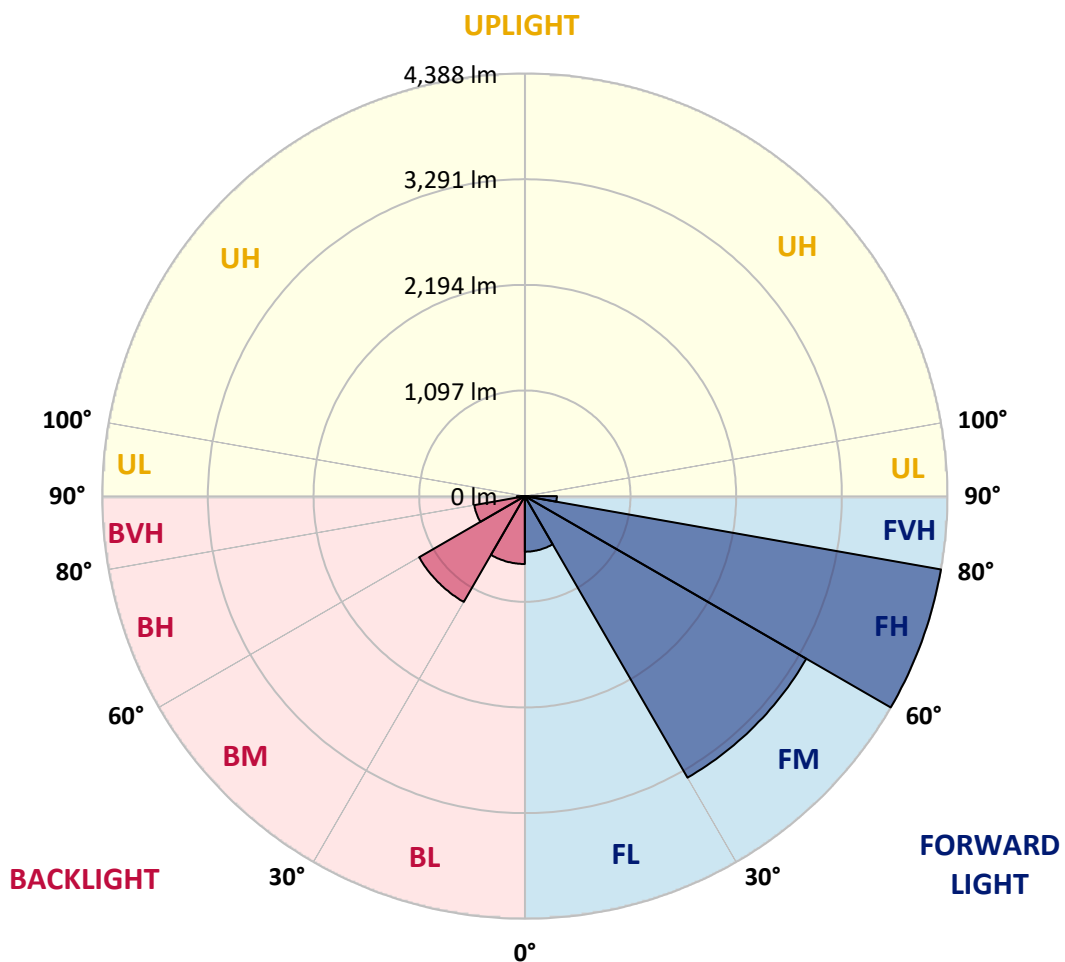
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	577.1	5.1			
FM (30°-60°)	3374.9	30.0			
FH (60°-80°)	4387.6	39.0			G2/5000
FVH (80°-90°)	332.2	3.0			G3/500
BL (0°-30°)	704.3	6.3	B2/1000		
BM (30°-60°)	1268.1	11.3	B2/2500		
BH (60°-80°)	533.6	4.7	B2/1000		G2/1000
BVH (80°-90°)	81.7	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1542.6	1542.6	1542.6	1542.6	1542.6	1542.6	1542.6	1542.6	1542.6	1542.6	1542.6
2.5°	1397.5	1385.1	1397.5	1405.8	1405.8	1405.8	1418.2	1455.6	1480.4	1497.0	1526.0
5°	1252.4	1256.5	1264.8	1285.5	1298.0	1306.3	1327.0	1372.6	1409.9	1463.8	1526.0
7.5°	1123.8	1132.1	1144.5	1165.3	1194.3	1190.2	1235.8	1298.0	1368.5	1439.0	1530.2
10°	1057.5	1074.0	1078.2	1082.3	1111.4	1111.4	1173.6	1244.1	1331.1	1422.4	1530.2
12.5°	1069.9	1069.9	1057.5	1053.3	1069.9	1065.7	1119.7	1202.6	1298.0	1426.5	1546.8
15°	1107.2	1107.2	1082.3	1057.5	1082.3	1074.0	1119.7	1186.0	1298.0	1430.7	1580.0
17.5°	1157.0	1161.1	1132.1	1090.6	1098.9	1103.1	1136.2	1198.4	1298.0	1439.0	1625.6
20°	1256.5	1235.8	1190.2	1123.8	1152.8	1140.4	1190.2	1244.1	1322.9	1472.1	1691.9
22.5°	1343.6	1343.6	1256.5	1198.4	1202.6	1202.6	1248.2	1293.8	1360.2	1517.8	1741.7
25°	1484.6	1476.3	1368.5	1281.4	1289.7	1293.8	1318.7	1372.6	1422.4	1542.6	1803.9
27.5°	1662.9	1642.2	1534.3	1434.8	1401.6	1414.1	1426.5	1468.0	1480.4	1584.1	1878.5
30°	1853.7	1824.6	1733.4	1575.8	1559.2	1563.4	1542.6	1567.5	1550.9	1650.5	1953.2
32.5°	1973.9	1973.9	1886.8	1770.7	1725.1	1725.1	1654.6	1671.2	1671.2	1712.7	2085.9
35°	2077.6	2069.3	2011.2	1924.1	1895.1	1878.5	1808.0	1832.9	1791.4	1832.9	2272.5
37.5°	2235.2	2210.3	2185.4	2127.3	2069.3	2056.8	2019.5	2036.1	1978.1	1957.3	2484.0
40°	2417.6	2405.2	2380.3	2355.4	2297.4	2293.2	2251.8	2268.3	2206.1	2127.3	2695.5
42.5°	2687.2	2649.9	2571.1	2550.3	2562.8	2579.4	2562.8	2533.7	2421.8	2322.2	2923.5
45°	2956.7	2898.7	2749.4	2716.2	2811.6	2799.1	2869.6	2857.2	2674.7	2517.2	3164.1
47.5°	3130.9	3081.1	2960.9	2940.1	2981.6	2998.2	3209.7	3172.4	2882.1	2695.5	3396.3
50°	3255.3	3259.4	3101.9	3155.8	3209.7	3209.7	3475.1	3470.9	3135.0	2915.3	3699.0
52.5°	3437.8	3379.7	3313.4	3363.1	3437.8	3479.2	3806.8	3715.6	3292.6	3101.9	4039.1
55°	3533.1	3508.3	3450.2	3537.3	3694.9	3715.6	4063.9	3993.4	3470.9	3321.6	4387.4
57.5°	3570.5	3591.2	3686.6	3723.9	3943.7	3997.6	4296.2	4196.6	3636.8	3595.3	4656.9
60°	3736.3	3707.3	3835.9	3985.1	4196.6	4225.7	4586.4	4370.8	3798.5	3773.7	4744.0
62.5°	4072.2	3997.6	4068.1	4246.4	4540.8	4578.1	4893.3	4603.0	3869.0	3893.9	4739.9
65°	4561.6	4507.7	4404.0	4545.0	4959.7	5013.6	5254.1	4802.1	3848.3	3852.4	4404.0
67.5°	5138.0	5050.9	4943.1	5030.2	5536.1	5660.5	5693.7	4889.2	3703.2	3620.2	3582.9
70°	5643.9	5585.8	5515.3	5664.6	6369.6	6415.2	6241.0	4835.3	3300.9	2907.0	2388.6
72.5°	6116.6	6087.6	6129.1	6688.9	7497.5	7526.6	6755.3	4495.2	2608.4	1762.4	1111.4
75°	6154.0	6124.9	6411.1	7534.9	8911.6	8965.5	7074.6	3524.8	1376.8	717.4	468.6
77.5°	4167.6	4254.7	4789.6	6597.7	8185.9	8198.4	5784.9	1638.0	568.1	423.0	327.6
80°	1024.3	1136.2	1803.9	3412.9	5519.5	5656.3	3168.2	551.5	373.2	323.5	244.7
82.5°	373.2	406.4	734.0	1542.6	3101.9	3155.8	1107.2	298.6	269.5	248.8	178.3
85°	178.3	182.5	348.3	758.9	1567.5	1550.9	398.1	178.3	194.9	170.0	107.8
87.5°	74.6	74.6	153.4	352.5	692.5	671.8	128.6	82.9	112.0	99.5	53.9
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°	1542.6	1542.6	1542.6	1542.6	1542.6	1542.6	1542.6	1542.6	1542.6	1542.6	1542.6
2.5°	1546.8	1555.1	1588.3	1613.1	1638.0	1658.7	1691.9	1691.9	1712.7	1712.7	1712.7
5°	1542.6	1588.3	1642.2	1700.2	1737.5	1774.9	1808.0	1812.2	1824.6	1841.2	1845.4
7.5°	1559.2	1604.8	1691.9	1774.9	1820.5	1837.1	1878.5	1866.1	1866.1	1866.1	1878.5
10°	1592.4	1642.2	1762.4	1837.1	1870.2	1874.4	1861.9	1853.7	1828.8	1820.5	1808.0
12.5°	1617.3	1704.4	1824.6	1882.7	1870.2	1857.8	1828.8	1787.3	1758.3	1750.0	1750.0
15°	1679.5	1766.6	1878.5	1899.3	1878.5	1812.2	1774.9	1729.2	1704.4	1667.0	1683.6
17.5°	1733.4	1832.9	1932.4	1907.6	1866.1	1762.4	1708.5	1642.2	1609.0	1567.5	1567.5
20°	1803.9	1895.1	1982.2	1915.9	1824.6	1712.7	1625.6	1542.6	1497.0	1455.6	1463.8
22.5°	1882.7	1965.6	2011.2	1882.7	1762.4	1633.9	1513.6	1434.8	1376.8	1351.9	1360.2
25°	1944.9	2036.1	2027.8	1828.8	1687.8	1534.3	1401.6	1327.0	1314.6	1289.7	1289.7
27.5°	2023.7	2119.1	2015.4	1762.4	1563.4	1376.8	1293.8	1264.8	1264.8	1252.4	1260.6
30°	2127.3	2193.7	1986.4	1667.0	1405.8	1235.8	1194.3	1210.9	1239.9	1227.5	1231.6
32.5°	2297.4	2289.1	1961.5	1559.2	1239.9	1098.9	1127.9	1161.1	1186.0	1198.4	1206.7
35°	2463.2	2409.3	1932.4	1414.1	1086.5	1032.6	1057.5	1094.8	1140.4	1152.8	1157.0
37.5°	2629.1	2533.7	1882.7	1235.8	991.1	974.5	999.4	1020.1	1057.5	1065.7	1074.0
40°	2803.3	2616.7	1795.6	1061.6	912.3	912.3	928.9	933.0	953.8	966.2	974.5
42.5°	2956.7	2695.5	1638.0	899.9	829.4	858.4	862.5	854.3	837.7	846.0	850.1
45°	3143.3	2782.6	1455.6	783.8	767.2	804.5	812.8	779.6	750.6	734.0	725.7
47.5°	3325.8	2873.8	1298.0	688.4	709.1	767.2	767.2	729.8	680.1	638.6	622.0
50°	3491.7	2965.0	1169.4	630.3	651.1	738.1	746.4	675.9	622.0	572.3	564.0
52.5°	3769.5	3118.4	1036.7	584.7	617.9	717.4	713.3	651.1	580.6	526.7	522.5
55°	4014.2	3271.9	862.5	539.1	584.7	688.4	700.8	626.2	530.8	481.0	472.7
57.5°	4192.5	3309.2	688.4	493.5	551.5	655.2	671.8	576.4	497.6	456.2	452.0
60°	4225.7	3164.1	559.8	456.2	505.9	609.6	622.0	547.4	472.7	439.6	431.3
62.5°	4072.2	2886.2	476.9	423.0	468.6	564.0	588.9	514.2	447.9	418.8	414.7
65°	3723.9	2479.8	418.8	394.0	443.7	530.8	559.8	489.3	427.1	402.2	398.1
67.5°	2948.4	1903.4	373.2	373.2	410.5	497.6	539.1	472.7	406.4	389.8	385.7
70°	1928.3	1144.5	340.0	344.2	385.7	468.6	514.2	452.0	381.5	377.4	369.1
72.5°	829.4	526.7	302.7	315.2	348.3	418.8	476.9	423.0	352.5	340.0	327.6
75°	381.5	319.3	273.7	282.0	311.0	369.1	431.3	389.8	327.6	306.9	294.4
77.5°	269.5	232.2	228.1	244.7	265.4	319.3	381.5	364.9	302.7	286.1	277.8
80°	199.0	178.3	190.8	207.3	219.8	294.4	360.8	335.9	277.8	253.0	240.5
82.5°	141.0	132.7	149.3	165.9	178.3	257.1	331.7	294.4	232.2	211.5	190.8
85°	82.9	87.1	103.7	112.0	124.4	190.8	277.8	236.4	178.3	136.8	132.7
87.5°	37.3	37.3	49.8	53.9	62.2	112.0	186.6	149.3	112.0	87.1	82.9
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)