

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: P675342

Luminaire Tested: **CCW-SA-2E-840-U-T4W**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675342
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-840-U-T4W
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
T4W distribution lens
Light Source: (32) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

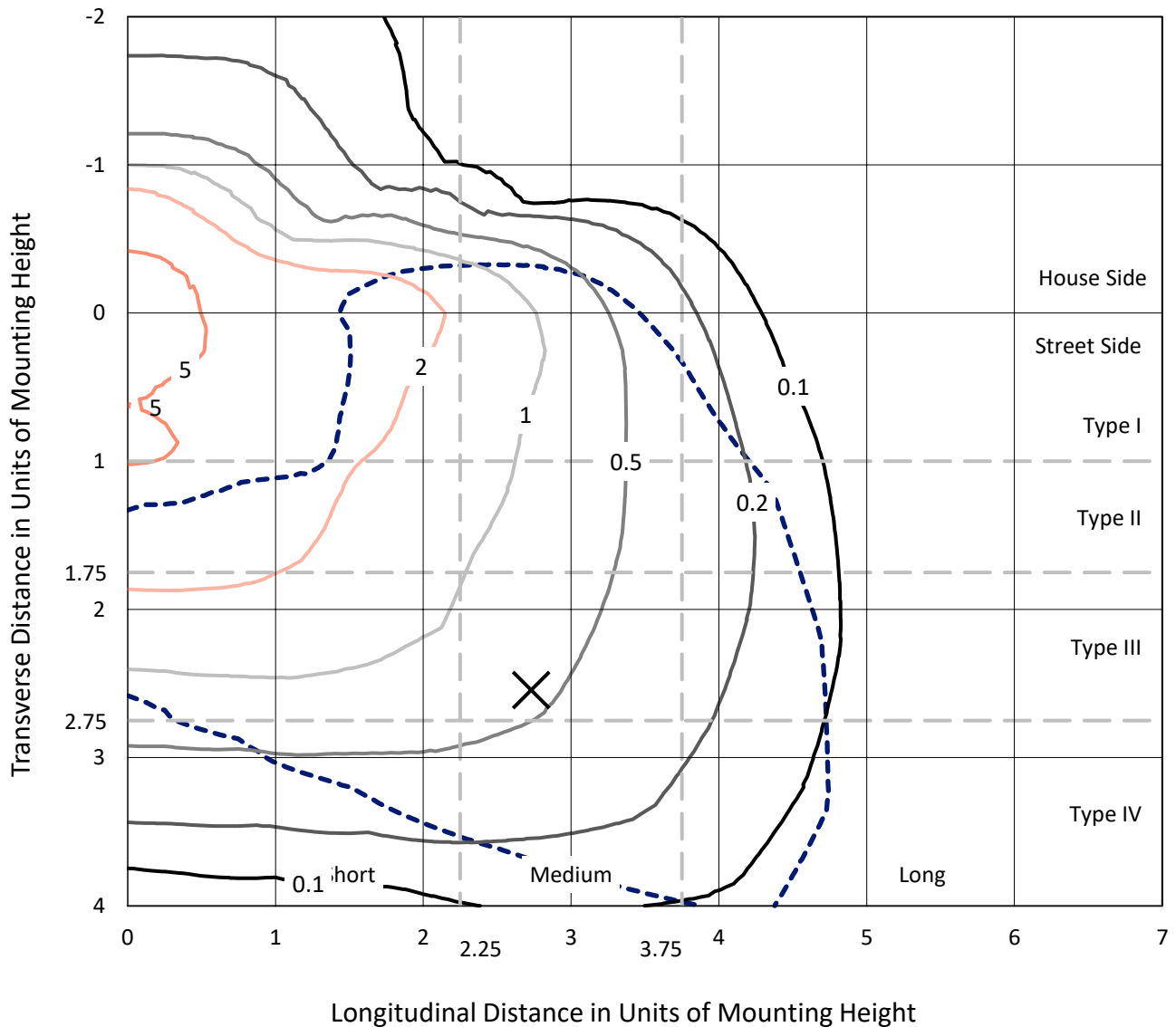
Lumens per Lamp: N/A
Luminaire Lumens: 11760.5 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

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

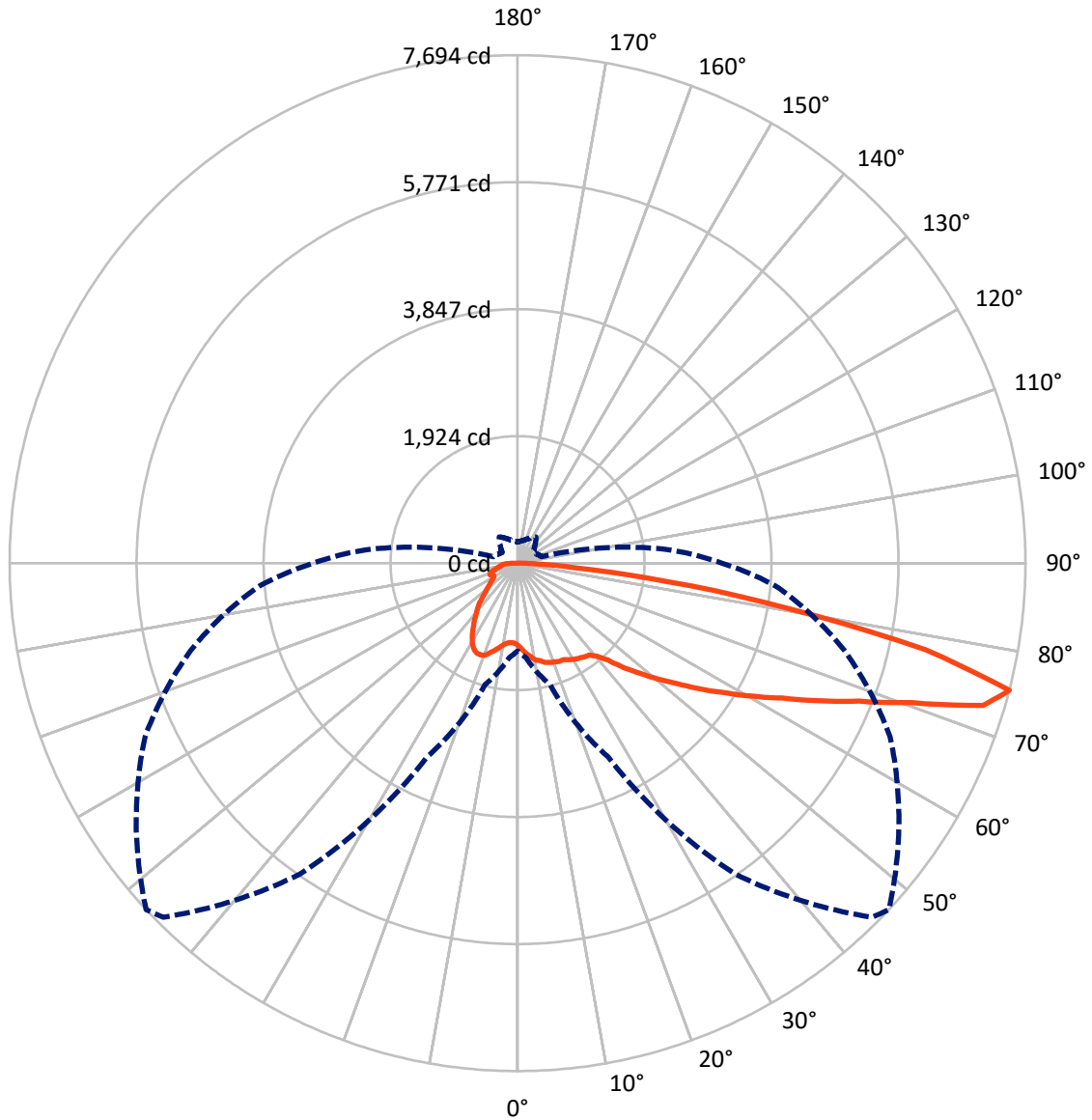
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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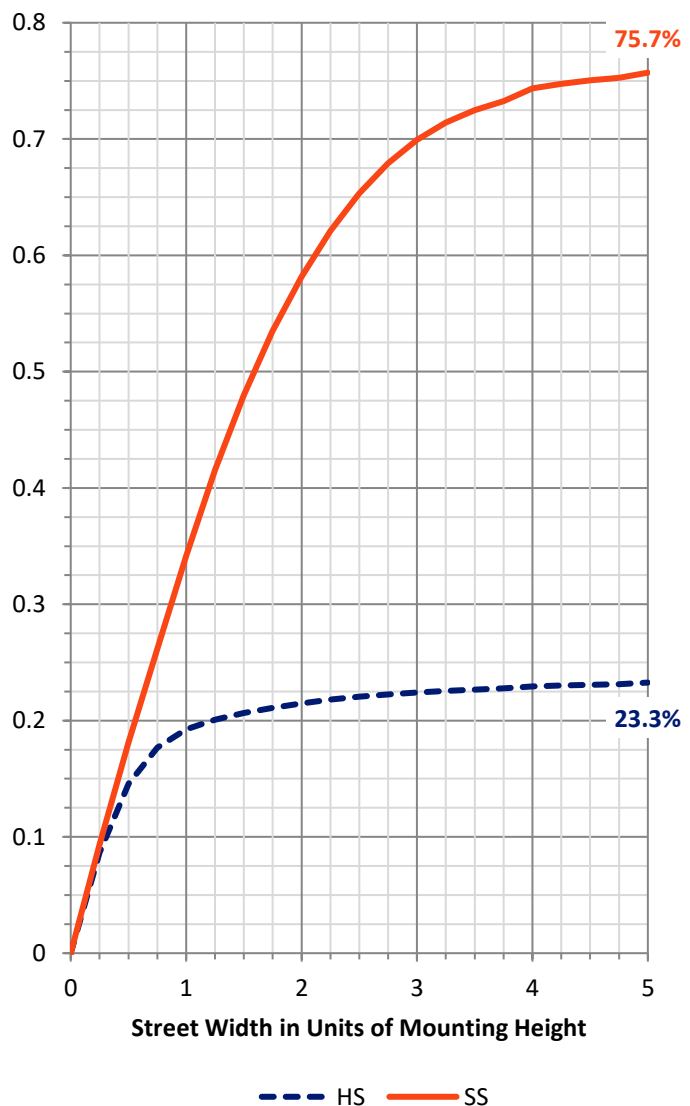
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2812.5	0.0	2812.5
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	8948.0	0.0	8948.0
	% Fixture	76.1	0.0	76.1
Total	Lumens	11760.5	0.0	11760.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.2	1.1
10°-20°	419.2	3.6
20°-30°	718.0	6.1
30°-40°	1004.7	8.5
40°-50°	1400.8	11.9
50°-60°	2093.8	17.8
60°-70°	3018.8	25.7
70°-80°	2569.6	21.8
80°-90°	409.3	3.5
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°	11760.5	100.0
0°-180°	11760.5	100.0



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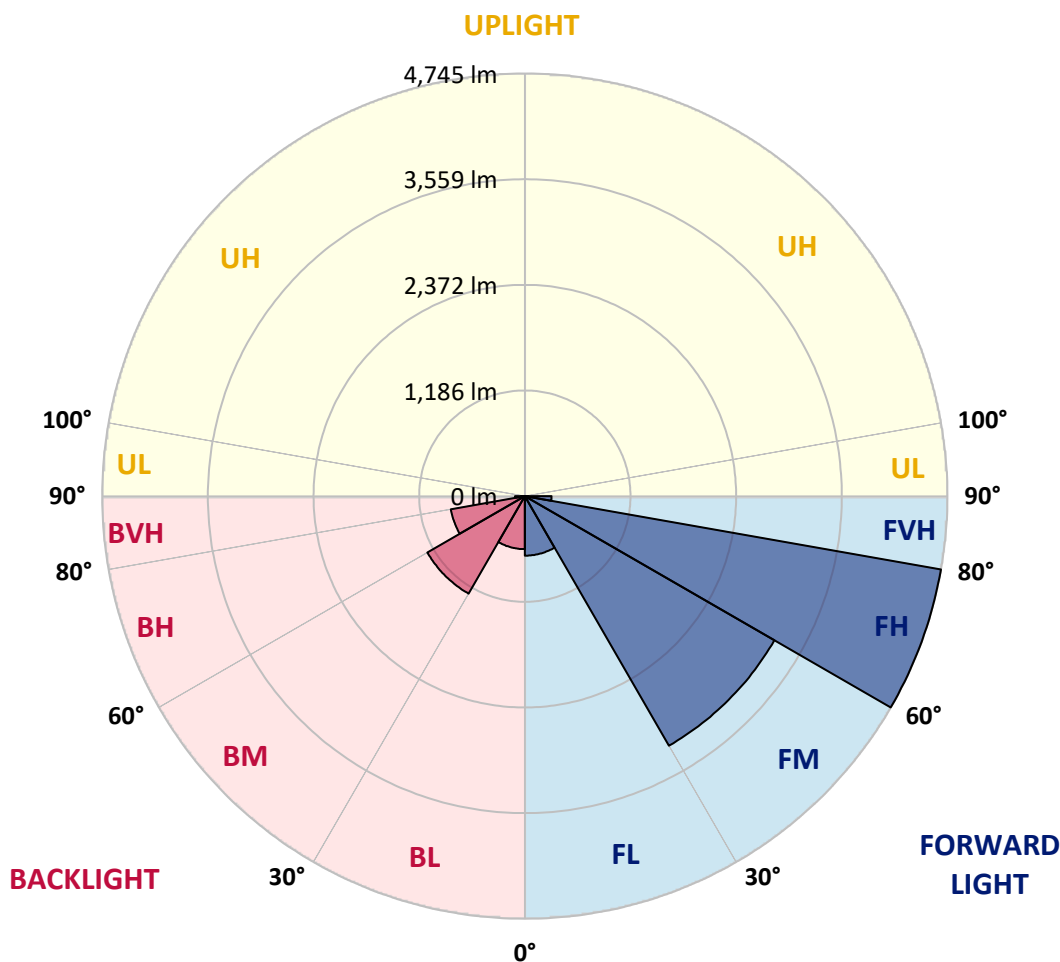
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	668.2	5.7			
FM (30°-60°)	3235.2	27.5			
FH (60°-80°)	4744.7	40.3			G2/5000
FVH (80°-90°)	299.9	2.6			G3/500
BL (0°-30°)	595.3	5.1	B2/1000		
BM (30°-60°)	1264.0	10.7	B2/2500		
BH (60°-80°)	843.7	7.2	B2/1000		G2/1000
BVH (80°-90°)	109.4	0.9			G2/225
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1248.7	1248.7	1248.7	1248.7	1248.7	1248.7	1248.7	1248.7	1248.7	1248.7	1248.7
2.5°	1338.8	1343.1	1343.1	1334.5	1326.0	1308.8	1308.8	1291.6	1283.0	1261.6	1253.0
5°	1463.3	1450.4	1437.5	1433.2	1411.8	1381.7	1377.5	1360.3	1313.1	1291.6	1261.6
7.5°	1553.4	1549.1	1544.8	1527.6	1489.0	1441.8	1428.9	1403.2	1356.0	1313.1	1278.8
10°	1626.3	1643.5	1626.3	1587.7	1549.1	1497.6	1493.3	1446.1	1403.2	1351.7	1308.8
12.5°	1707.9	1712.2	1682.1	1634.9	1574.8	1531.9	1514.8	1497.6	1450.4	1407.5	1343.1
15°	1763.7	1755.1	1733.6	1669.2	1600.6	1557.7	1562.0	1540.5	1489.0	1459.0	1390.3
17.5°	1763.7	1763.7	1729.3	1682.1	1622.0	1583.4	1583.4	1570.6	1536.2	1493.3	1446.1
20°	1729.3	1729.3	1707.9	1682.1	1613.5	1604.9	1596.3	1587.7	1587.7	1549.1	1480.4
22.5°	1686.4	1677.8	1686.4	1643.5	1596.3	1604.9	1617.8	1613.5	1600.6	1566.3	1519.1
25°	1643.5	1647.8	1656.4	1626.3	1583.4	1622.0	1617.8	1639.2	1630.6	1604.9	1566.3
27.5°	1639.2	1647.8	1652.1	1622.0	1604.9	1639.2	1656.4	1677.8	1682.1	1656.4	1609.2
30°	1703.6	1699.3	1695.0	1656.4	1643.5	1673.5	1690.7	1720.7	1746.5	1690.7	1652.1
32.5°	1870.9	1845.2	1819.4	1716.5	1677.8	1699.3	1716.5	1759.4	1763.7	1733.6	1677.8
35°	2137.0	2119.8	2034.0	1853.8	1746.5	1725.0	1742.2	1772.2	1780.8	1759.4	1716.5
37.5°	2441.7	2433.1	2312.9	2094.1	1888.1	1785.1	1767.9	1810.9	1845.2	1798.0	1737.9
40°	2742.0	2707.7	2621.9	2407.3	2068.3	1875.2	1853.8	1875.2	1888.1	1853.8	1815.1
42.5°	3012.4	2973.8	2952.3	2737.7	2304.3	2025.4	2008.2	1956.8	1995.4	1952.5	1901.0
45°	3239.8	3231.2	3222.6	3038.1	2574.7	2270.0	2257.1	2124.1	2167.0	2132.7	2059.7
47.5°	3402.9	3441.5	3428.6	3325.6	2883.6	2531.8	2493.1	2321.5	2385.9	2351.5	2278.6
50°	3596.0	3617.4	3604.5	3535.9	3171.1	2832.1	2759.2	2583.3	2656.2	2651.9	2613.3
52.5°	3767.6	3832.0	3759.0	3754.7	3583.1	3158.3	3033.8	2866.5	2986.6	3033.8	3029.5
55°	3969.3	4020.8	3999.3	3990.7	3952.1	3475.8	3364.2	3162.6	3364.2	3432.9	3493.0
57.5°	4140.9	4136.6	4218.2	4316.9	4364.1	3840.6	3707.5	3471.5	3776.2	3853.4	4020.8
60°	4218.2	4291.1	4428.4	4677.3	4810.4	4231.1	4093.7	3904.9	4192.4	4252.5	4561.5
62.5°	4269.7	4334.0	4600.1	5020.6	5097.9	4630.1	4501.4	4312.6	4647.3	4690.2	5149.4
65°	4128.1	4188.1	4715.9	5149.4	5424.0	5059.2	5029.2	4831.8	5102.2	5127.9	5767.3
67.5°	3965.0	4029.4	4617.3	5312.4	5857.4	5630.0	5582.8	5346.7	5552.7	5522.7	6239.3
70°	3677.5	3763.3	4364.1	5454.0	6338.0	6428.1	6333.7	5999.0	6020.5	5737.2	6260.8
72.5°	2802.1	2857.9	3415.7	4891.9	6561.1	7535.2	7372.2	6702.7	6458.1	5780.1	5527.0
75°	1330.2	1433.2	1905.3	3235.5	5750.1	7586.7	7694.0	7050.3	6226.4	5127.9	3917.8
77.5°	386.2	386.2	579.3	1373.2	3604.5	6114.9	6316.5	5986.1	5136.5	3797.6	2059.7
80°	210.3	223.1	304.7	484.9	1583.4	3857.7	4149.5	3969.3	3025.2	1501.9	532.1
82.5°	120.2	124.4	201.7	291.8	720.9	2098.4	2270.0	2059.7	1150.0	454.9	248.9
85°	68.7	72.9	115.9	193.1	429.1	772.4	841.1	729.5	463.4	304.7	124.4
87.5°	34.3	34.3	55.8	90.1	218.8	218.8	214.6	261.8	278.9	184.5	55.8
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°	1248.7	1248.7	1248.7	1248.7	1248.7	1248.7	1248.7	1248.7	1248.7	1248.7	1248.7
2.5°	1248.7	1244.4	1244.4	1227.3	1223.0	1210.1	1210.1	1201.5	1197.2	1210.1	1210.1
5°	1253.0	1231.6	1227.3	1210.1	1214.4	1205.8	1223.0	1214.4	1210.1	1210.1	1205.8
7.5°	1261.6	1240.1	1223.0	1210.1	1205.8	1218.7	1240.1	1240.1	1265.9	1253.0	1253.0
10°	1283.0	1270.2	1248.7	1240.1	1240.1	1253.0	1278.8	1295.9	1317.4	1317.4	1304.5
12.5°	1334.5	1313.1	1287.3	1274.5	1291.6	1304.5	1330.2	1347.4	1373.2	1381.7	1373.2
15°	1373.2	1351.7	1343.1	1334.5	1347.4	1364.6	1386.0	1403.2	1433.2	1441.8	1437.5
17.5°	1424.7	1398.9	1394.6	1398.9	1407.5	1420.4	1433.2	1446.1	1467.6	1467.6	1467.6
20°	1450.4	1441.8	1437.5	1450.4	1467.6	1484.7	1476.1	1467.6	1463.3	1471.9	1467.6
22.5°	1497.6	1489.0	1493.3	1506.2	1506.2	1497.6	1484.7	1454.7	1446.1	1454.7	1446.1
25°	1540.5	1531.9	1531.9	1523.4	1519.1	1489.0	1463.3	1437.5	1407.5	1420.4	1416.1
27.5°	1583.4	1579.1	1579.1	1544.8	1501.9	1450.4	1416.1	1386.0	1368.9	1390.3	1377.5
30°	1634.9	1639.2	1617.8	1536.2	1433.2	1377.5	1338.8	1334.5	1330.2	1343.1	1338.8
32.5°	1682.1	1686.4	1652.1	1523.4	1381.7	1274.5	1235.8	1240.1	1261.6	1283.0	1304.5
35°	1707.9	1729.3	1686.4	1480.4	1278.8	1158.6	1115.7	1154.3	1192.9	1223.0	1244.4
37.5°	1755.1	1810.9	1737.9	1433.2	1188.6	1055.6	1025.6	1038.5	1085.7	1132.9	1154.3
40°	1823.7	1888.1	1750.8	1343.1	1068.5	952.6	935.5	939.8	956.9	987.0	1008.4
42.5°	1943.9	2012.5	1763.7	1227.3	948.3	888.3	841.1	828.2	815.3	815.3	811.0
45°	2119.8	2184.2	1746.5	1081.4	828.2	785.3	750.9	720.9	686.6	630.8	639.4
47.5°	2377.3	2428.8	1759.4	952.6	716.6	682.3	656.5	622.2	570.7	510.6	506.4
50°	2767.8	2690.5	1742.2	819.6	635.1	605.0	583.6	536.4	476.3	433.4	429.1
52.5°	3222.6	3068.2	1725.0	708.0	566.4	540.7	523.5	472.0	416.2	394.8	390.5
55°	3771.9	3548.8	1750.8	609.3	514.9	493.5	476.3	429.1	386.2	369.0	364.7
57.5°	4419.9	4068.0	1892.4	532.1	459.2	450.6	446.3	407.7	369.0	356.2	351.9
60°	5029.2	4565.8	1986.8	476.3	407.7	416.2	424.8	407.7	364.7	356.2	356.2
62.5°	5539.8	4977.7	1836.6	429.1	381.9	407.7	446.3	433.4	416.2	424.8	416.2
65°	5990.4	5119.3	1373.2	403.4	369.0	429.1	493.5	489.2	450.6	459.2	454.9
67.5°	6067.7	4947.7	896.8	381.9	360.5	472.0	553.6	502.1	424.8	424.8	411.9
70°	5745.8	4488.5	600.8	360.5	356.2	472.0	566.4	472.0	399.1	399.1	381.9
72.5°	4715.9	3587.4	463.4	339.0	326.1	420.5	536.4	446.3	373.3	364.7	334.7
75°	3098.2	2312.9	377.6	321.8	283.2	369.0	484.9	411.9	356.2	330.4	317.5
77.5°	1519.1	1038.5	317.5	283.2	244.6	321.8	442.0	390.5	334.7	309.0	300.4
80°	416.2	373.3	266.0	248.9	206.0	278.9	416.2	373.3	313.3	287.5	274.6
82.5°	236.0	231.7	214.6	201.7	171.6	278.9	420.5	373.3	296.1	291.8	248.9
85°	128.7	137.3	154.5	150.2	133.0	248.9	399.1	326.1	240.3	201.7	201.7
87.5°	51.5	64.4	77.2	85.8	90.1	184.5	300.4	248.9	184.5	154.5	154.5
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)