

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: P675353

Luminaire Tested: **CCW-SA-2E-850-U-T4W**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675353  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2E-850-U-T4W  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/  
T4W distribution lens  
Light Source: (32) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

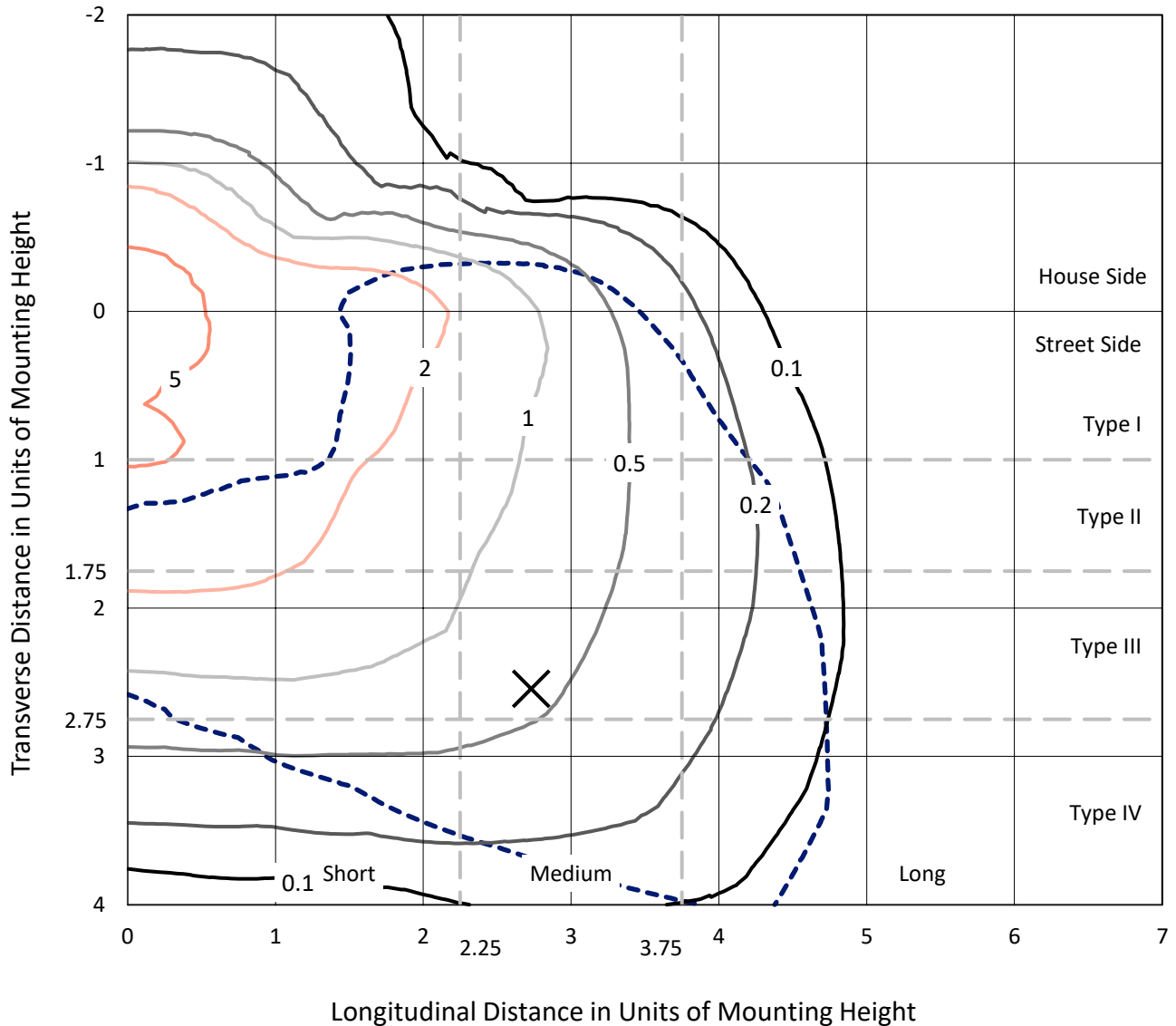
Lumens per Lamp: N/A  
Luminaire Lumens: 12036.4 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

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

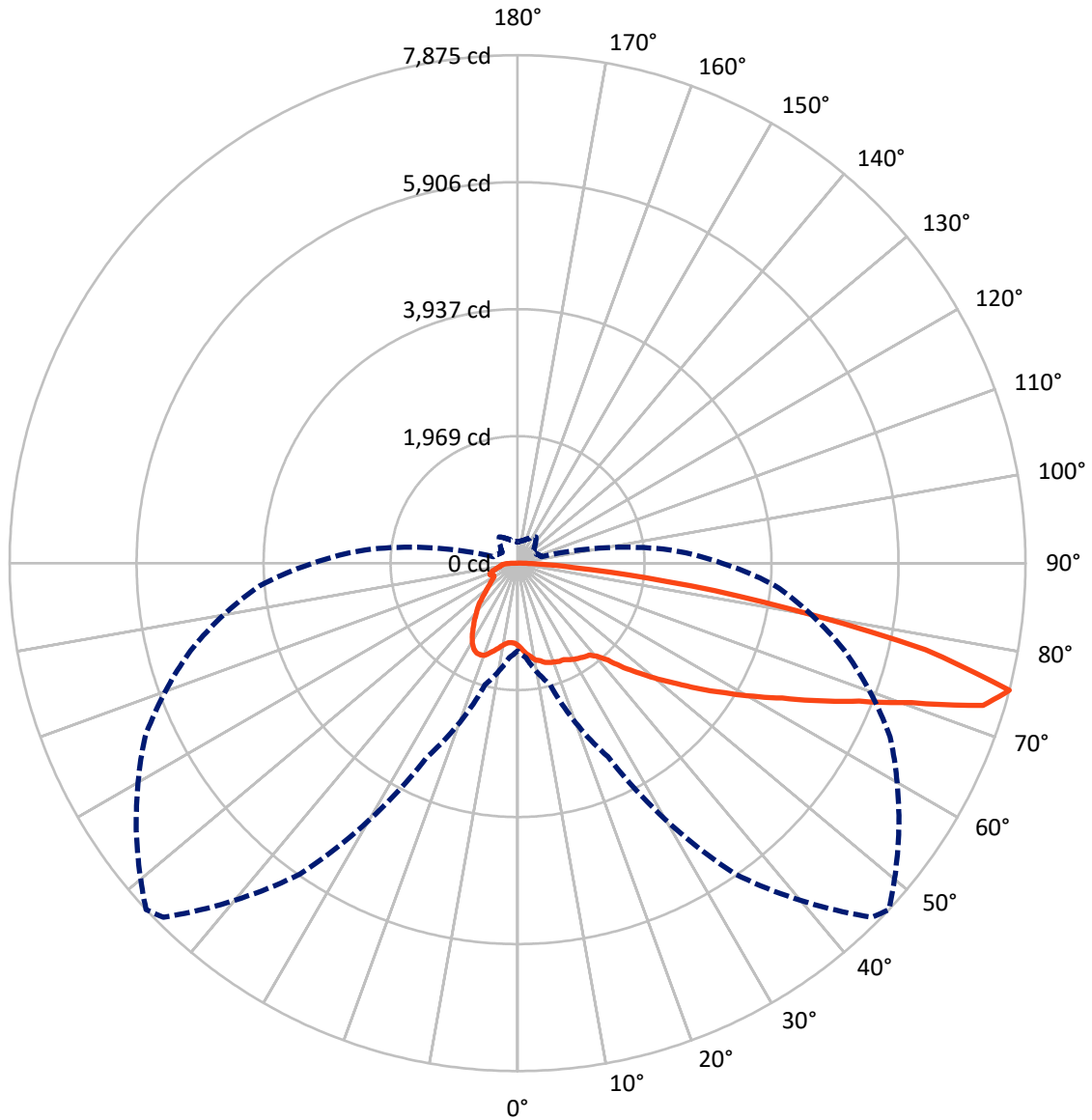
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.2 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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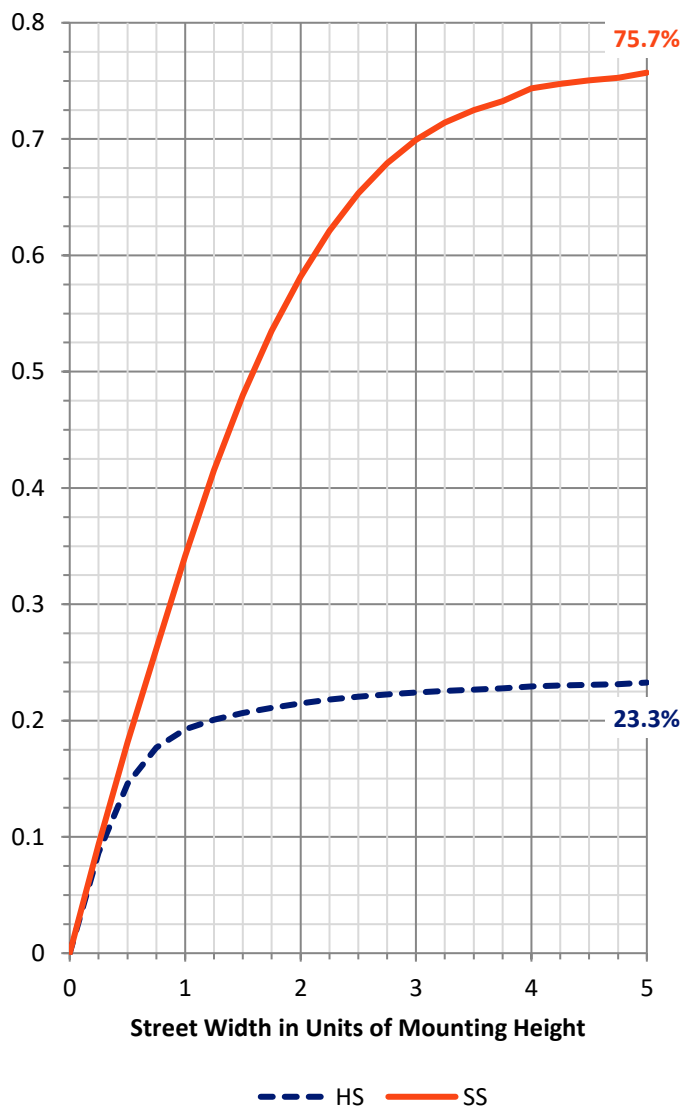
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2878.5	0.0	2878.5
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	9157.9	0.0	9157.9
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	12036.4	0.0	12036.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.2	1.1
10°-20°	429.0	3.6
20°-30°	734.9	6.1
30°-40°	1028.2	8.5
40°-50°	1433.7	11.9
50°-60°	2142.9	17.8
60°-70°	3089.6	25.7
70°-80°	2629.9	21.8
80°-90°	418.9	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°	12036.4	100.0
0°-180°	12036.4	100.0



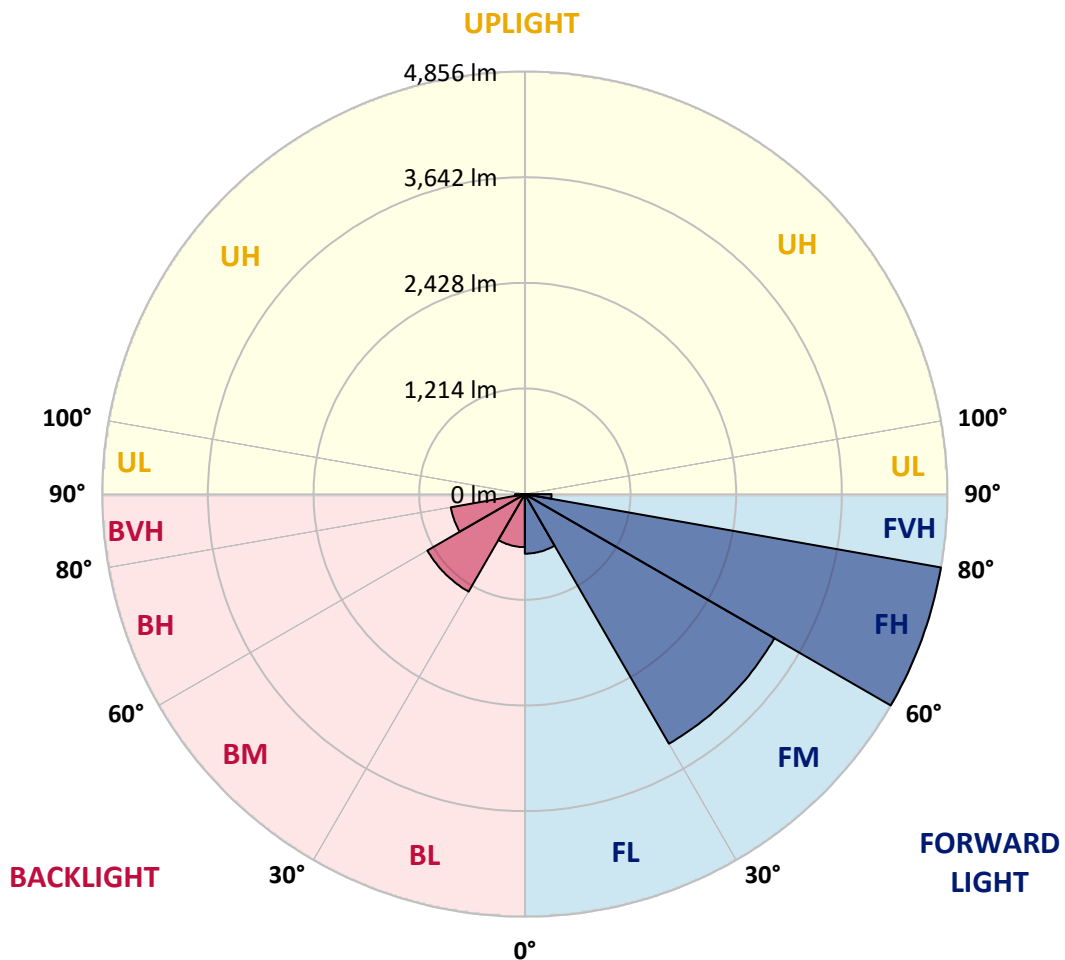
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	683.9	5.7			
FM (30°-60°)	3311.1	27.5			
FH (60°-80°)	4856.0	40.3			G2/5000
FVH (80°-90°)	307.0	2.6			G3/500
BL (0°-30°)	609.3	5.1	B2/1000		
BM (30°-60°)	1293.7	10.7	B2/2500		
BH (60°-80°)	863.5	7.2	B2/1000		G2/1000
BVH (80°-90°)	112.0	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°	1278.0	1278.0	1278.0	1278.0	1278.0	1278.0	1278.0	1278.0	1278.0	1278.0	1278.0
2.5°	1370.2	1374.6	1374.6	1365.8	1357.1	1339.5	1339.5	1321.9	1313.1	1291.2	1282.4
5°	1497.6	1484.4	1471.2	1466.9	1444.9	1414.2	1409.8	1392.2	1343.9	1321.9	1291.2
7.5°	1589.8	1585.4	1581.0	1563.5	1524.0	1475.6	1462.5	1436.1	1387.8	1343.9	1308.8
10°	1664.5	1682.1	1664.5	1625.0	1585.4	1532.7	1528.3	1480.0	1436.1	1383.4	1339.5
12.5°	1747.9	1752.3	1721.6	1673.3	1611.8	1567.9	1550.3	1532.7	1484.4	1440.5	1374.6
15°	1805.0	1796.2	1774.3	1708.4	1638.1	1594.2	1598.6	1576.7	1524.0	1493.2	1422.9
17.5°	1805.0	1805.0	1769.9	1721.6	1660.1	1620.6	1620.6	1607.4	1572.3	1528.3	1480.0
20°	1769.9	1769.9	1747.9	1721.6	1651.3	1642.5	1633.7	1625.0	1625.0	1585.4	1515.2
22.5°	1726.0	1717.2	1726.0	1682.1	1633.7	1642.5	1655.7	1651.3	1638.1	1603.0	1554.7
25°	1682.1	1686.4	1695.2	1664.5	1620.6	1660.1	1655.7	1677.7	1668.9	1642.5	1603.0
27.5°	1677.7	1686.4	1690.8	1660.1	1642.5	1677.7	1695.2	1717.2	1721.6	1695.2	1646.9
30°	1743.5	1739.1	1734.8	1695.2	1682.1	1712.8	1730.4	1761.1	1787.5	1730.4	1690.8
32.5°	1914.8	1888.5	1862.1	1756.7	1717.2	1739.1	1756.7	1800.6	1805.0	1774.3	1717.2
35°	2187.1	2169.5	2081.7	1897.3	1787.5	1765.5	1783.1	1813.8	1822.6	1800.6	1756.7
37.5°	2498.9	2490.1	2367.2	2143.2	1932.4	1827.0	1809.4	1853.3	1888.5	1840.2	1778.7
40°	2806.4	2771.2	2683.4	2463.8	2116.8	1919.2	1897.3	1919.2	1932.4	1897.3	1857.7
42.5°	3083.0	3043.5	3021.5	2802.0	2358.4	2072.9	2055.4	2002.7	2042.2	1998.3	1945.6
45°	3315.8	3307.0	3298.2	3109.4	2635.1	2323.3	2310.1	2173.9	2217.9	2182.7	2108.1
47.5°	3482.7	3522.2	3509.0	3403.6	2951.3	2591.2	2551.6	2376.0	2441.8	2406.7	2332.0
50°	3680.3	3702.3	3689.1	3618.8	3245.5	2898.6	2823.9	2643.9	2718.5	2714.1	2674.6
52.5°	3856.0	3921.9	3847.2	3842.8	3667.1	3232.4	3105.0	2933.7	3056.7	3105.0	3100.6
55°	4062.4	4115.1	4093.1	4084.4	4044.8	3557.3	3443.2	3236.7	3443.2	3513.4	3574.9
57.5°	4238.1	4233.7	4317.1	4418.1	4466.4	3930.6	3794.5	3553.0	3864.8	3943.8	4115.1
60°	4317.1	4391.8	4532.3	4787.0	4923.2	4330.3	4189.8	3996.5	4290.8	4352.3	4668.5
62.5°	4369.8	4435.7	4708.0	5138.4	5217.4	4738.7	4607.0	4413.7	4756.3	4800.2	5270.1
65°	4224.9	4286.4	4826.6	5270.1	5551.2	5177.9	5147.2	4945.2	5221.8	5248.2	5902.6
67.5°	4058.0	4123.9	4725.6	5437.0	5994.8	5762.0	5713.7	5472.2	5683.0	5652.2	6385.7
70°	3763.8	3851.6	4466.4	5582.0	6486.7	6578.9	6482.3	6139.7	6161.7	5871.8	6407.6
72.5°	2867.8	2924.9	3495.9	5006.6	6715.0	7712.0	7545.1	6860.0	6609.6	5915.7	5656.6
75°	1361.5	1466.9	1950.0	3311.4	5885.0	7764.7	7874.5	7215.7	6372.5	5248.2	4009.7
77.5°	395.3	395.3	592.9	1405.4	3689.1	6258.3	6464.7	6126.5	5257.0	3886.7	2108.1
80°	215.2	228.4	311.8	496.3	1620.6	3948.2	4246.9	4062.4	3096.2	1537.1	544.6
82.5°	123.0	127.4	206.4	298.6	737.8	2147.6	2323.3	2108.1	1177.0	465.5	254.7
85°	70.3	74.7	118.6	197.6	439.2	790.5	860.8	746.6	474.3	311.8	127.4
87.5°	35.1	35.1	57.1	92.2	224.0	224.0	219.6	267.9	285.5	188.8	57.1
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°	1278.0	1278.0	1278.0	1278.0	1278.0	1278.0	1278.0	1278.0	1278.0	1278.0	1278.0
2.5°	1278.0	1273.6	1273.6	1256.1	1251.7	1238.5	1238.5	1229.7	1225.3	1238.5	1238.5
5°	1282.4	1260.4	1256.1	1238.5	1242.9	1234.1	1251.7	1242.9	1238.5	1238.5	1234.1
7.5°	1291.2	1269.2	1251.7	1238.5	1234.1	1247.3	1269.2	1269.2	1295.6	1282.4	1282.4
10°	1313.1	1300.0	1278.0	1269.2	1269.2	1282.4	1308.8	1326.3	1348.3	1348.3	1335.1
12.5°	1365.8	1343.9	1317.5	1304.4	1321.9	1335.1	1361.5	1379.0	1405.4	1414.2	1405.4
15°	1405.4	1383.4	1374.6	1365.8	1379.0	1396.6	1418.5	1436.1	1466.9	1475.6	1471.2
17.5°	1458.1	1431.7	1427.3	1431.7	1440.5	1453.7	1466.9	1480.0	1502.0	1502.0	1502.0
20°	1484.4	1475.6	1471.2	1484.4	1502.0	1519.6	1510.8	1502.0	1497.6	1506.4	1502.0
22.5°	1532.7	1524.0	1528.3	1541.5	1541.5	1532.7	1519.6	1488.8	1480.0	1488.8	1480.0
25°	1576.7	1567.9	1567.9	1559.1	1554.7	1524.0	1497.6	1471.2	1440.5	1453.7	1449.3
27.5°	1620.6	1616.2	1616.2	1581.0	1537.1	1484.4	1449.3	1418.5	1401.0	1422.9	1409.8
30°	1673.3	1677.7	1655.7	1572.3	1466.9	1409.8	1370.2	1365.8	1361.5	1374.6	1370.2
32.5°	1721.6	1726.0	1690.8	1559.1	1414.2	1304.4	1264.8	1269.2	1291.2	1313.1	1335.1
35°	1747.9	1769.9	1726.0	1515.2	1308.8	1185.8	1141.9	1181.4	1220.9	1251.7	1273.6
37.5°	1796.2	1853.3	1778.7	1466.9	1216.5	1080.4	1049.6	1062.8	1111.1	1159.4	1181.4
40°	1866.5	1932.4	1791.8	1374.6	1093.6	975.0	957.4	961.8	979.4	1010.1	1032.1
42.5°	1989.5	2059.7	1805.0	1256.1	970.6	909.1	860.8	847.6	834.4	834.4	830.0
45°	2169.5	2235.4	1787.5	1106.7	847.6	803.7	768.6	737.8	702.7	645.6	654.4
47.5°	2433.1	2485.8	1800.6	975.0	733.4	698.3	671.9	636.8	584.1	522.6	518.2
50°	2832.7	2753.7	1783.1	838.8	650.0	619.2	597.3	549.0	487.5	443.6	439.2
52.5°	3298.2	3140.1	1765.5	724.6	579.7	553.4	535.8	483.1	426.0	404.0	399.7
55°	3860.4	3632.0	1791.8	623.6	527.0	505.1	487.5	439.2	395.3	377.7	373.3
57.5°	4523.5	4163.4	1936.8	544.6	469.9	461.1	456.7	417.2	377.7	364.5	360.1
60°	5147.2	4672.9	2033.4	487.5	417.2	426.0	434.8	417.2	373.3	364.5	364.5
62.5°	5669.8	5094.5	1879.7	439.2	390.9	417.2	456.7	443.6	426.0	434.8	426.0
65°	6130.9	5239.4	1405.4	412.8	377.7	439.2	505.1	500.7	461.1	469.9	465.5
67.5°	6210.0	5063.7	917.9	390.9	368.9	483.1	566.5	513.8	434.8	434.8	421.6
70°	5880.6	4593.8	614.9	368.9	364.5	483.1	579.7	483.1	408.4	408.4	390.9
72.5°	4826.6	3671.5	474.3	347.0	333.8	430.4	549.0	456.7	382.1	373.3	342.6
75°	3170.9	2367.2	386.5	329.4	289.9	377.7	496.3	421.6	364.5	338.2	325.0
77.5°	1554.7	1062.8	325.0	289.9	250.3	329.4	452.4	399.7	342.6	316.2	307.4
80°	426.0	382.1	272.3	254.7	210.8	285.5	426.0	382.1	320.6	294.2	281.1
82.5°	241.5	237.2	219.6	206.4	175.7	285.5	430.4	382.1	303.0	298.6	254.7
85°	131.8	140.5	158.1	153.7	136.1	254.7	408.4	333.8	245.9	206.4	206.4
87.5°	52.7	65.9	79.1	87.8	92.2	188.8	307.4	254.7	188.8	158.1	158.1
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)