

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: P675331

Luminaire Tested: **CCW-SA-2E-835-U-T4W**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675331
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-T4W
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
T4W distribution lens
Light Source: (32) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

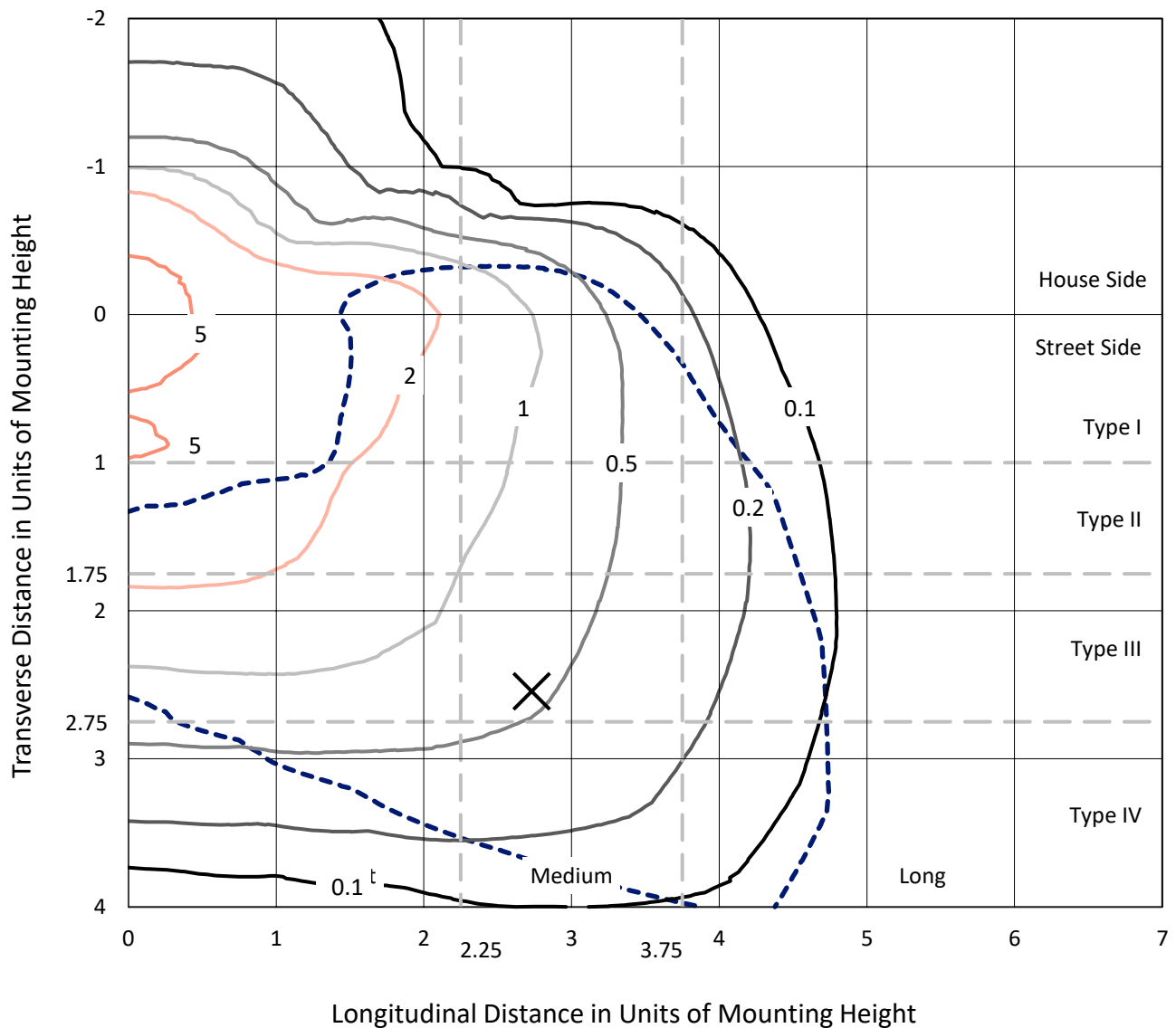
Lumens per Lamp: N/A
Luminaire Lumens: 11366 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

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

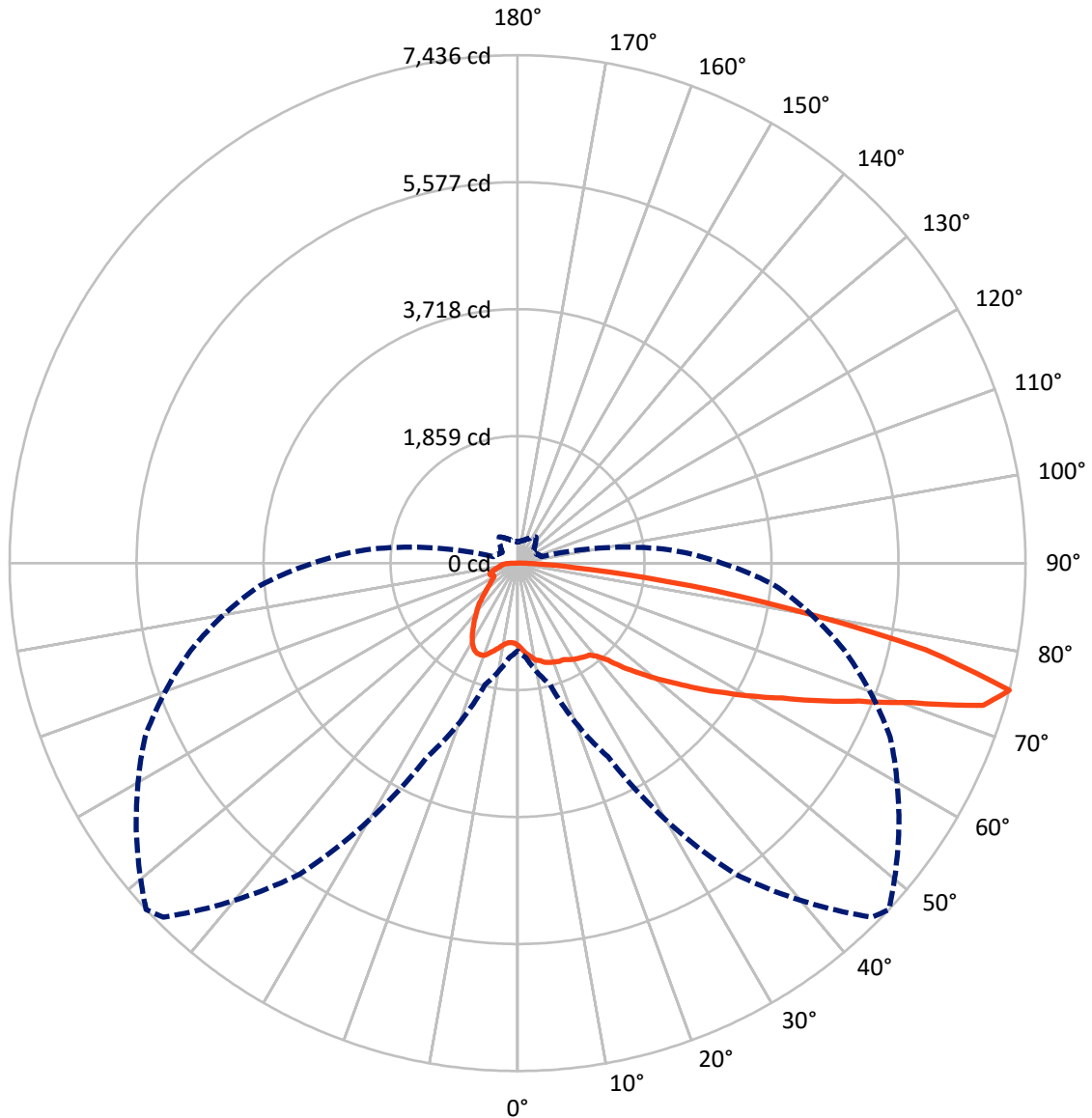
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.8 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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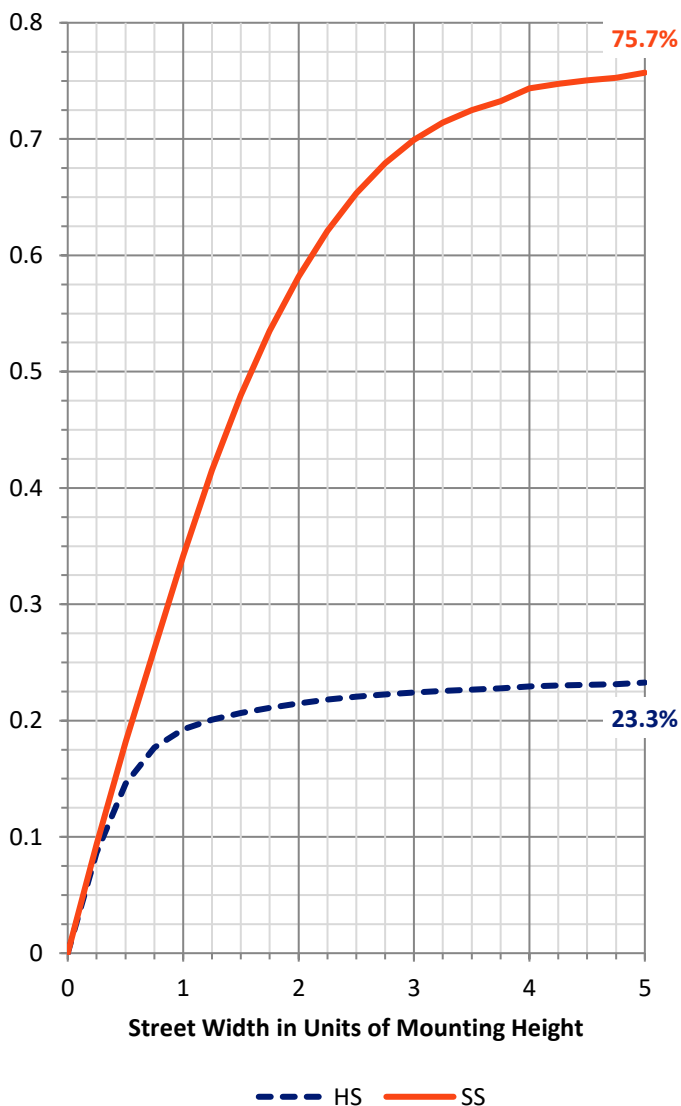
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2718.2	0.0	2718.2
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	8647.9	0.0	8647.9
	% Fixture	76.1	0.0	76.1
Total	Lumens	11366.0	0.0	11366.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.0	1.1
10°-20°	405.2	3.6
20°-30°	693.9	6.1
30°-40°	971.0	8.5
40°-50°	1353.8	11.9
50°-60°	2023.6	17.8
60°-70°	2917.5	25.7
70°-80°	2483.4	21.8
80°-90°	395.6	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°	11366.0	100.0
0°-180°	11366.0	100.0



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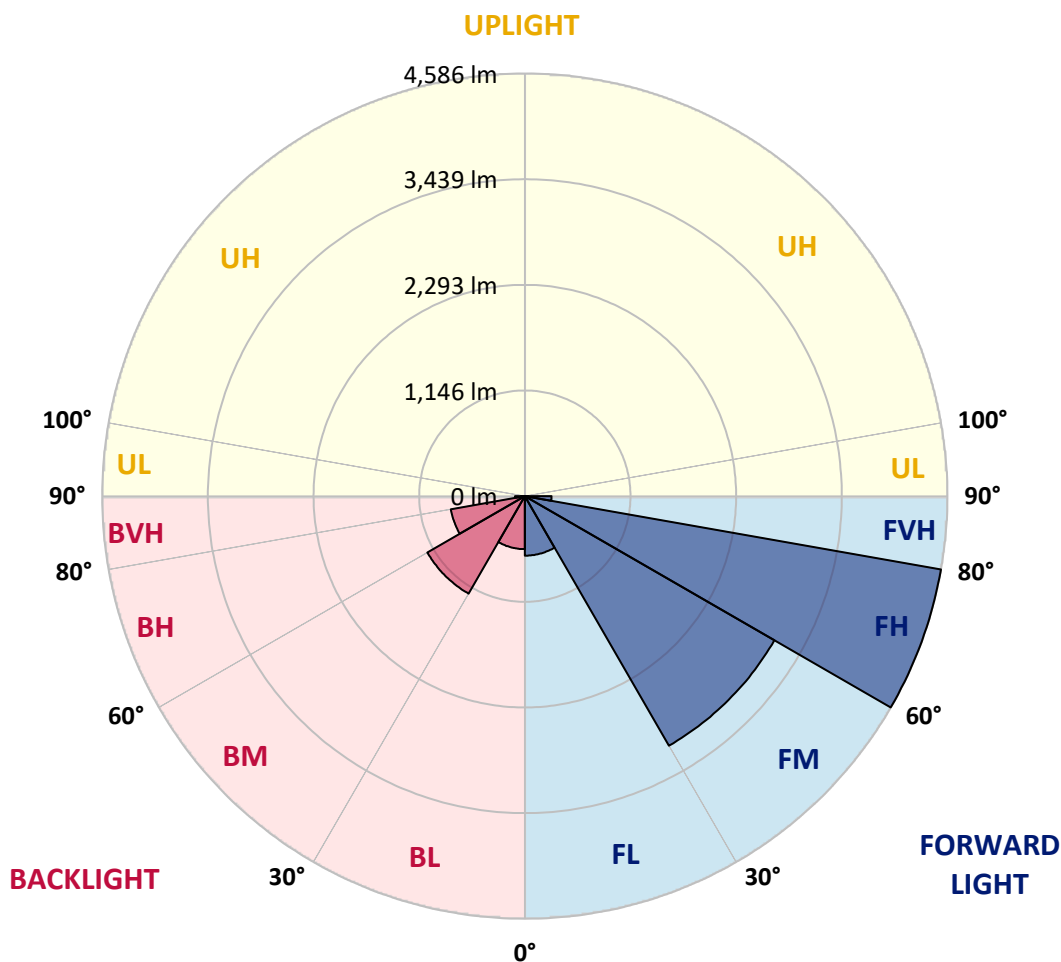
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	645.8	5.7			
FM (30°-60°)	3126.7	27.5			
FH (60°-80°)	4585.5	40.3			G2/5000
FVH (80°-90°)	289.9	2.6			G3/500
BL (0°-30°)	575.3	5.1	B2/1000		
BM (30°-60°)	1221.6	10.7	B2/2500		
BH (60°-80°)	815.4	7.2	B2/1000		G2/1000
BVH (80°-90°)	105.7	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°	1206.8	1206.8	1206.8	1206.8	1206.8	1206.8	1206.8	1206.8	1206.8	1206.8	1206.8
2.5°	1293.9	1298.1	1298.1	1289.8	1281.5	1264.9	1264.9	1248.3	1240.0	1219.3	1211.0
5°	1414.2	1401.7	1389.3	1385.2	1364.4	1335.4	1331.2	1314.7	1269.0	1248.3	1219.3
7.5°	1501.3	1497.1	1493.0	1476.4	1439.1	1393.5	1381.0	1356.1	1310.5	1269.0	1235.9
10°	1571.8	1588.4	1571.8	1534.5	1497.1	1447.4	1443.2	1397.6	1356.1	1306.4	1264.9
12.5°	1650.6	1654.7	1625.7	1580.1	1522.0	1480.5	1464.0	1447.4	1401.7	1360.3	1298.1
15°	1704.5	1696.2	1675.5	1613.3	1546.9	1505.4	1509.6	1488.8	1439.1	1410.0	1343.7
17.5°	1704.5	1704.5	1671.3	1625.7	1567.6	1530.3	1530.3	1517.9	1484.7	1443.2	1397.6
20°	1671.3	1671.3	1650.6	1625.7	1559.3	1551.0	1542.8	1534.5	1534.5	1497.1	1430.8
22.5°	1629.8	1621.5	1629.8	1588.4	1542.8	1551.0	1563.5	1559.3	1546.9	1513.7	1468.1
25°	1588.4	1592.5	1600.8	1571.8	1530.3	1567.6	1563.5	1584.2	1575.9	1551.0	1513.7
27.5°	1584.2	1592.5	1596.7	1567.6	1551.0	1584.2	1600.8	1621.5	1625.7	1600.8	1555.2
30°	1646.4	1642.3	1638.1	1600.8	1588.4	1617.4	1634.0	1663.0	1687.9	1634.0	1596.7
32.5°	1808.2	1783.3	1758.4	1658.9	1621.5	1642.3	1658.9	1700.3	1704.5	1675.5	1621.5
35°	2065.3	2048.7	1965.8	1791.6	1687.9	1667.2	1683.8	1712.8	1721.1	1700.3	1658.9
37.5°	2359.7	2351.5	2235.3	2023.8	1824.8	1725.2	1708.6	1750.1	1783.3	1737.7	1679.6
40°	2650.1	2616.9	2533.9	2326.6	1998.9	1812.3	1791.6	1812.3	1824.8	1791.6	1754.3
42.5°	2911.3	2874.0	2853.3	2645.9	2227.0	1957.5	1940.9	1891.1	1928.4	1887.0	1837.2
45°	3131.1	3122.8	3114.5	2936.2	2488.3	2193.9	2181.4	2052.9	2094.3	2061.2	1990.6
47.5°	3288.7	3326.0	3313.6	3214.1	2786.9	2446.8	2409.5	2243.6	2305.8	2272.7	2202.2
50°	3475.3	3496.1	3483.6	3417.3	3064.8	2737.1	2666.6	2496.6	2567.1	2563.0	2525.6
52.5°	3641.2	3703.4	3632.9	3628.8	3462.9	3052.3	2932.1	2770.3	2886.4	2932.1	2927.9
55°	3836.1	3885.9	3865.2	3856.9	3819.6	3359.2	3251.4	3056.5	3251.4	3317.7	3375.8
57.5°	4002.0	3997.9	4076.7	4172.1	4217.7	3711.7	3583.2	3355.1	3649.5	3724.2	3885.9
60°	4076.7	4147.2	4279.9	4520.4	4649.0	4089.1	3956.4	3773.9	4051.8	4109.9	4408.5
62.5°	4126.4	4188.7	4445.8	4852.2	4926.9	4474.8	4350.4	4167.9	4491.4	4532.9	4976.6
65°	3989.6	4047.7	4557.8	4976.6	5242.0	4889.5	4860.5	4669.7	4931.0	4955.9	5573.8
67.5°	3832.0	3894.2	4462.4	5134.2	5660.9	5441.1	5395.5	5167.4	5366.5	5337.4	6030.0
70°	3554.1	3637.1	4217.7	5271.1	6125.4	6212.5	6121.2	5797.8	5818.5	5544.8	6050.7
72.5°	2708.1	2762.0	3301.2	4727.8	6341.0	7282.5	7124.9	6477.9	6241.5	5586.3	5341.6
75°	1285.6	1385.2	1841.3	3127.0	5557.2	7332.2	7435.9	6813.8	6017.6	4955.9	3786.4
77.5°	373.2	373.2	559.9	1327.1	3483.6	5909.7	6104.7	5785.3	4964.2	3670.3	1990.6
80°	203.2	215.7	294.5	468.6	1530.3	3728.3	4010.3	3836.1	2923.8	1451.5	514.3
82.5°	116.1	120.3	194.9	282.0	696.7	2028.0	2193.9	1990.6	1111.4	439.6	240.5
85°	66.4	70.5	112.0	186.6	414.7	746.5	812.8	705.0	447.9	294.5	120.3
87.5°	33.2	33.2	53.9	87.1	211.5	211.5	207.4	253.0	269.6	178.3	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°	1206.8	1206.8	1206.8	1206.8	1206.8	1206.8	1206.8	1206.8	1206.8	1206.8	1206.8
2.5°	1206.8	1202.7	1202.7	1186.1	1181.9	1169.5	1169.5	1161.2	1157.1	1169.5	1169.5
5°	1211.0	1190.2	1186.1	1169.5	1173.7	1165.4	1181.9	1173.7	1169.5	1169.5	1165.4
7.5°	1219.3	1198.5	1181.9	1169.5	1165.4	1177.8	1198.5	1198.5	1223.4	1211.0	1211.0
10°	1240.0	1227.6	1206.8	1198.5	1198.5	1211.0	1235.9	1252.4	1273.2	1273.2	1260.7
12.5°	1289.8	1269.0	1244.2	1231.7	1248.3	1260.7	1285.6	1302.2	1327.1	1335.4	1327.1
15°	1327.1	1306.4	1298.1	1289.8	1302.2	1318.8	1339.5	1356.1	1385.2	1393.5	1389.3
17.5°	1376.9	1352.0	1347.8	1352.0	1360.3	1372.7	1385.2	1397.6	1418.3	1418.3	1418.3
20°	1401.7	1393.5	1389.3	1401.7	1418.3	1434.9	1426.6	1418.3	1414.2	1422.5	1418.3
22.5°	1447.4	1439.1	1443.2	1455.7	1455.7	1447.4	1434.9	1405.9	1397.6	1405.9	1397.6
25°	1488.8	1480.5	1480.5	1472.3	1468.1	1439.1	1414.2	1389.3	1360.3	1372.7	1368.6
27.5°	1530.3	1526.2	1526.2	1493.0	1451.5	1401.7	1368.6	1339.5	1323.0	1343.7	1331.2
30°	1580.1	1584.2	1563.5	1484.7	1385.2	1331.2	1293.9	1289.8	1285.6	1298.1	1293.9
32.5°	1625.7	1629.8	1596.7	1472.3	1335.4	1231.7	1194.4	1198.5	1219.3	1240.0	1260.7
35°	1650.6	1671.3	1629.8	1430.8	1235.9	1119.7	1078.3	1115.6	1152.9	1181.9	1202.7
37.5°	1696.2	1750.1	1679.6	1385.2	1148.8	1020.2	991.2	1003.6	1049.2	1094.9	1115.6
40°	1762.6	1824.8	1692.1	1298.1	1032.6	920.7	904.1	908.2	924.8	953.9	974.6
42.5°	1878.7	1945.0	1704.5	1186.1	916.5	858.5	812.8	800.4	788.0	788.0	783.8
45°	2048.7	2110.9	1687.9	1045.1	800.4	758.9	725.8	696.7	663.5	609.6	617.9
47.5°	2297.5	2347.3	1700.3	920.7	692.6	659.4	634.5	601.3	551.6	493.5	489.4
50°	2674.9	2600.3	1683.8	792.1	613.8	584.8	564.0	518.4	460.3	418.9	414.7
52.5°	3114.5	2965.2	1667.2	684.3	547.4	522.5	506.0	456.2	402.3	381.5	377.4
55°	3645.4	3429.7	1692.1	588.9	497.7	476.9	460.3	414.7	373.2	356.7	352.5
57.5°	4271.6	3931.5	1828.9	514.3	443.7	435.5	431.3	394.0	356.7	344.2	340.1
60°	4860.5	4412.6	1920.1	460.3	394.0	402.3	410.6	394.0	352.5	344.2	344.2
62.5°	5354.0	4810.7	1775.0	414.7	369.1	394.0	431.3	418.9	402.3	410.6	402.3
65°	5789.5	4947.6	1327.1	389.8	356.7	414.7	476.9	472.8	435.5	443.7	439.6
67.5°	5864.1	4781.7	866.8	369.1	348.4	456.2	535.0	485.2	410.6	410.6	398.1
70°	5553.1	4338.0	580.6	348.4	344.2	456.2	547.4	456.2	385.7	385.7	369.1
72.5°	4557.8	3467.0	447.9	327.6	315.2	406.4	518.4	431.3	360.8	352.5	323.5
75°	2994.3	2235.3	365.0	311.0	273.7	356.7	468.6	398.1	344.2	319.3	306.9
77.5°	1468.1	1003.6	306.9	273.7	236.4	311.0	427.2	377.4	323.5	298.6	290.3
80°	402.3	360.8	257.1	240.5	199.1	269.6	402.3	360.8	302.7	277.9	265.4
82.5°	228.1	223.9	207.4	194.9	165.9	269.6	406.4	360.8	286.2	282.0	240.5
85°	124.4	132.7	149.3	145.2	128.6	240.5	385.7	315.2	232.2	194.9	194.9
87.5°	49.8	62.2	74.6	82.9	87.1	178.3	290.3	240.5	178.3	149.3	149.3
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)