

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: P671001

Luminaire Tested: **CCP-SA-2E-827-U-T4FT**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671001  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2E-827-U-T4FT  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ T4FT distribution lens  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

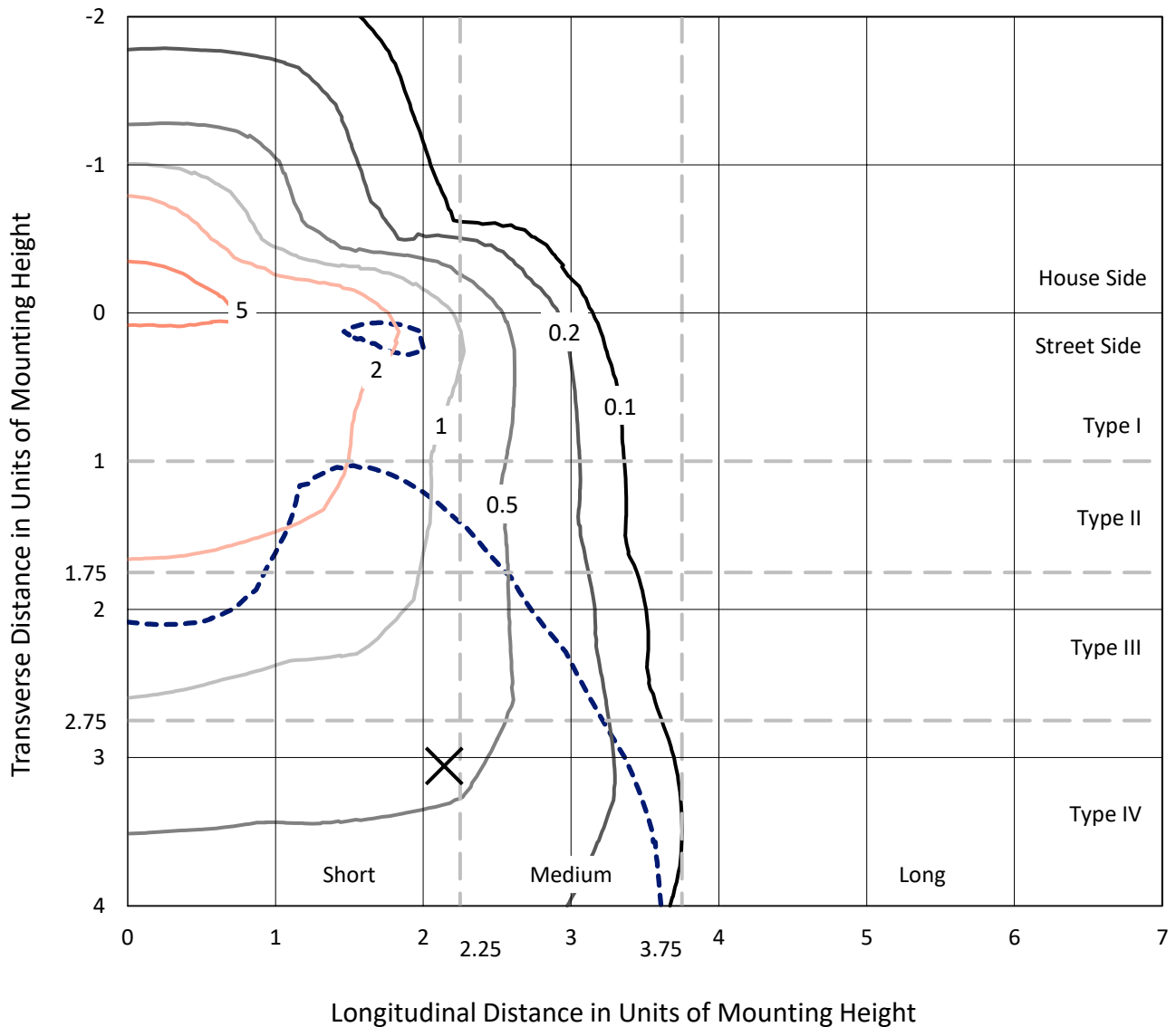
Lumens per Lamp: N/A  
Luminaire Lumens: 10044.9 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 106.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

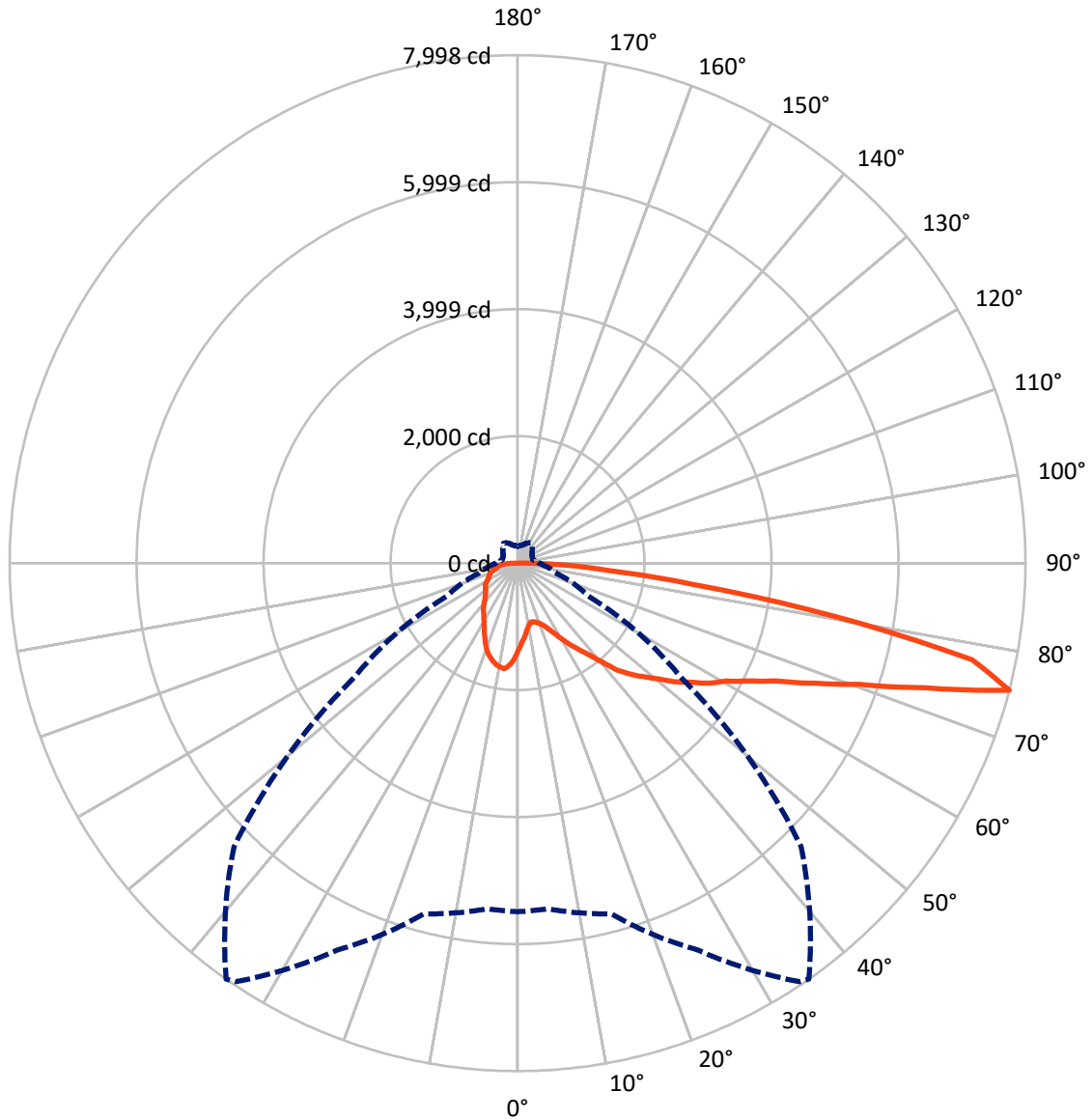
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.3 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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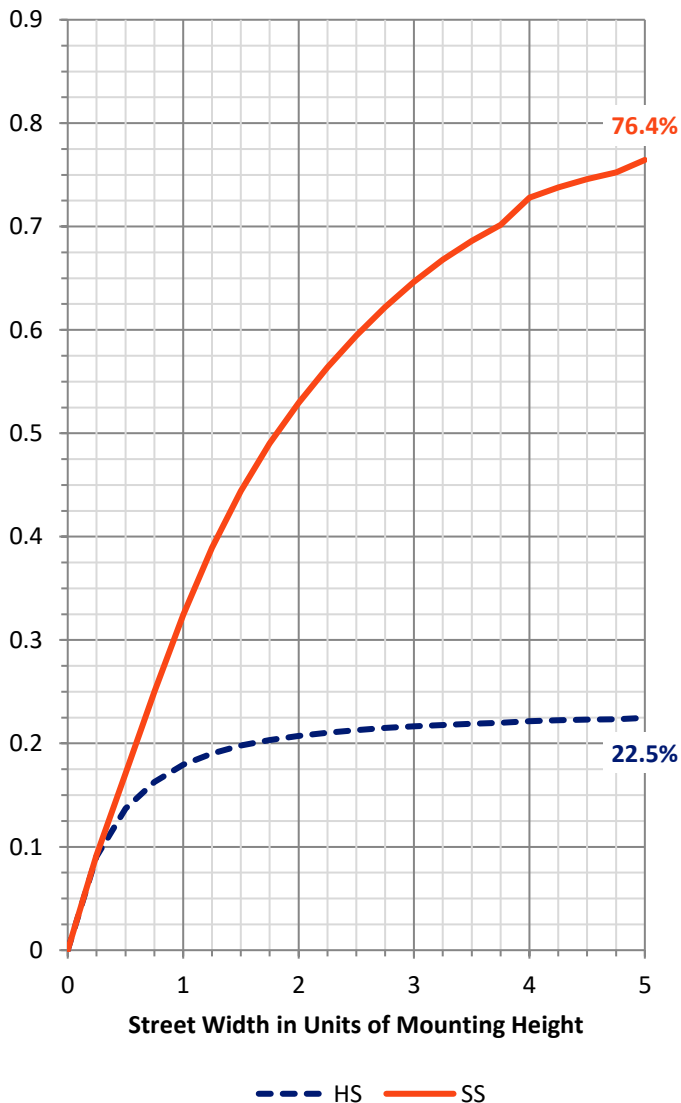
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2308.6	0.0	2308.6
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	7736.3	0.0	7736.3
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	10044.9	0.0	10044.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.1	1.3
10°-20°	380.6	3.8
20°-30°	631.5	6.3
30°-40°	936.1	9.3
40°-50°	1349.8	13.4
50°-60°	1856.2	18.5
60°-70°	2292.8	22.8
70°-80°	2097.6	20.9
80°-90°	369.3	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°	10044.9	100.0
0°-180°	10044.9	100.0



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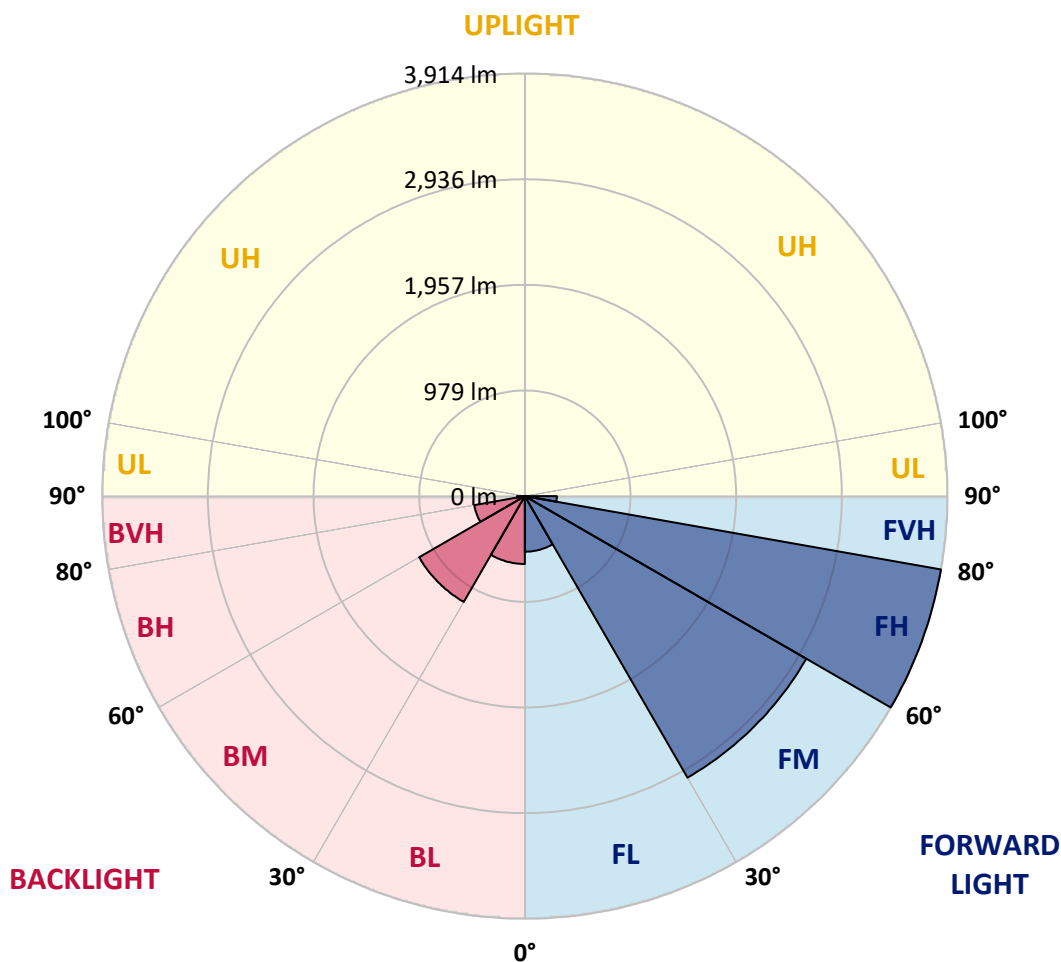
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	514.9	5.1			
FM (30°-60°)	3010.8	30.0			
FH (60°-80°)	3914.3	39.0			G2/5000
FVH (80°-90°)	296.3	3.0			G3/500
BL (0°-30°)	628.4	6.3	B2/1000		
BM (30°-60°)	1131.3	11.3	B2/2500		
BH (60°-80°)	476.0	4.7	B1/500		G1/500
BVH (80°-90°)	72.9	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°	1376.2	1376.2	1376.2	1376.2	1376.2	1376.2	1376.2	1376.2	1376.2	1376.2	1376.2
2.5°	1246.7	1235.6	1246.7	1254.1	1254.1	1254.1	1265.2	1298.5	1320.7	1335.5	1361.4
5°	1117.2	1120.9	1128.3	1146.8	1157.9	1165.3	1183.8	1224.5	1257.8	1305.9	1361.4
7.5°	1002.6	1010.0	1021.1	1039.6	1065.4	1061.7	1102.4	1157.9	1220.8	1283.7	1365.1
10°	943.4	958.2	961.9	965.6	991.5	991.5	1047.0	1109.8	1187.5	1268.9	1365.1
12.5°	954.5	954.5	943.4	939.7	954.5	950.8	998.9	1072.8	1157.9	1272.6	1379.9
15°	987.8	987.8	965.6	943.4	965.6	958.2	998.9	1058.0	1157.9	1276.3	1409.5
17.5°	1032.2	1035.9	1010.0	973.0	980.4	984.1	1013.7	1069.1	1157.9	1283.7	1450.2
20°	1120.9	1102.4	1061.7	1002.6	1028.5	1017.4	1061.7	1109.8	1180.1	1313.3	1509.4
22.5°	1198.6	1198.6	1120.9	1069.1	1072.8	1072.8	1113.5	1154.2	1213.4	1354.0	1553.8
25°	1324.4	1317.0	1220.8	1143.1	1150.5	1154.2	1176.4	1224.5	1268.9	1376.2	1609.3
27.5°	1483.5	1465.0	1368.8	1280.0	1250.4	1261.5	1272.6	1309.6	1320.7	1413.2	1675.9
30°	1653.7	1627.8	1546.4	1405.8	1391.0	1394.7	1376.2	1398.4	1383.6	1472.4	1742.5
32.5°	1761.0	1761.0	1683.3	1579.7	1539.0	1539.0	1476.1	1490.9	1490.9	1527.9	1860.8
35°	1853.4	1846.0	1794.2	1716.6	1690.7	1675.9	1613.0	1635.2	1598.2	1635.2	2027.3
37.5°	1994.0	1971.8	1949.6	1897.8	1846.0	1834.9	1801.6	1816.4	1764.6	1746.2	2216.0
40°	2156.8	2145.7	2123.5	2101.3	2049.5	2045.8	2008.8	2023.6	1968.1	1897.8	2404.7
42.5°	2397.3	2364.0	2293.7	2275.2	2286.3	2301.1	2286.3	2260.4	2160.5	2071.7	2608.1
45°	2637.7	2585.9	2452.8	2423.2	2508.2	2497.1	2560.0	2548.9	2386.2	2245.6	2822.7
47.5°	2793.1	2748.7	2641.4	2622.9	2659.9	2674.7	2863.4	2830.1	2571.1	2404.7	3029.9
50°	2904.1	2907.8	2767.2	2815.3	2863.4	2863.4	3100.2	3096.5	2796.8	2600.7	3299.9
52.5°	3066.9	3015.1	2955.9	3000.3	3066.9	3103.9	3396.1	3314.7	2937.4	2767.2	3603.3
55°	3152.0	3129.8	3078.0	3155.7	3296.2	3314.7	3625.5	3562.6	3096.5	2963.3	3914.0
57.5°	3185.2	3203.7	3288.8	3322.1	3518.2	3566.3	3832.7	3743.9	3244.4	3207.4	4154.5
60°	3333.2	3307.3	3422.0	3555.2	3743.9	3769.8	4091.6	3899.2	3388.7	3366.5	4232.2
62.5°	3632.9	3566.3	3629.2	3788.3	4050.9	4084.2	4365.4	4106.4	3451.6	3473.8	4228.5
65°	4069.4	4021.3	3928.8	4054.6	4424.6	4472.7	4687.2	4284.0	3433.1	3436.8	3928.8
67.5°	4583.7	4506.0	4409.8	4487.5	4938.8	5049.8	5079.4	4361.7	3303.6	3229.6	3196.3
70°	5035.0	4983.2	4920.3	5053.5	5682.4	5723.1	5567.7	4313.6	2944.8	2593.3	2130.9
72.5°	5456.7	5430.8	5467.8	5967.3	6688.7	6714.5	6026.4	4010.2	2327.0	1572.3	991.5
75°	5490.0	5464.1	5719.4	6721.9	7950.2	7998.3	6311.3	3144.6	1228.2	640.0	418.0
77.5°	3718.0	3795.7	4272.9	5885.9	7302.8	7313.9	5160.8	1461.3	506.8	377.3	292.3
80°	913.8	1013.7	1609.3	3044.7	4924.0	5046.1	2826.4	492.0	333.0	288.6	218.3
82.5°	333.0	362.5	654.8	1376.2	2767.2	2815.3	987.8	266.4	240.5	222.0	159.1
85°	159.1	162.8	310.8	677.0	1398.4	1383.6	355.1	159.1	173.9	151.7	96.2
87.5°	66.6	66.6	136.9	314.5	617.8	599.3	114.7	74.0	99.9	88.8	48.1
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°	1376.2	1376.2	1376.2	1376.2	1376.2	1376.2	1376.2	1376.2	1376.2	1376.2	1376.2
2.5°	1379.9	1387.3	1416.9	1439.1	1461.3	1479.8	1509.4	1509.4	1527.9	1527.9	1527.9
5°	1376.2	1416.9	1465.0	1516.8	1550.1	1583.4	1613.0	1616.7	1627.8	1642.6	1646.3
7.5°	1391.0	1431.7	1509.4	1583.4	1624.1	1638.9	1675.9	1664.8	1664.8	1664.8	1675.9
10°	1420.6	1465.0	1572.3	1638.9	1668.5	1672.2	1661.1	1653.7	1631.5	1624.1	1613.0
12.5°	1442.8	1520.5	1627.8	1679.6	1668.5	1657.4	1631.5	1594.5	1568.6	1561.2	1561.2
15°	1498.3	1576.0	1675.9	1694.4	1675.9	1616.7	1583.4	1542.7	1520.5	1487.2	1502.0
17.5°	1546.4	1635.2	1724.0	1701.8	1664.8	1572.3	1524.2	1465.0	1435.4	1398.4	1398.4
20°	1609.3	1690.7	1768.3	1709.2	1627.8	1527.9	1450.2	1376.2	1335.5	1298.5	1305.9
22.5°	1679.6	1753.6	1794.2	1679.6	1572.3	1457.6	1350.3	1280.0	1228.2	1206.0	1213.4
25°	1735.1	1816.4	1809.0	1631.5	1505.7	1368.8	1250.4	1183.8	1172.7	1150.5	1150.5
27.5°	1805.3	1890.4	1797.9	1572.3	1394.7	1228.2	1154.2	1128.3	1128.3	1117.2	1124.6
30°	1897.8	1957.0	1772.0	1487.2	1254.1	1102.4	1065.4	1080.2	1106.1	1095.0	1098.7
32.5°	2049.5	2042.1	1749.9	1391.0	1106.1	980.4	1006.3	1035.9	1058.0	1069.1	1076.5
35°	2197.5	2149.4	1724.0	1261.5	969.3	921.2	943.4	976.7	1017.4	1028.5	1032.2
37.5°	2345.5	2260.4	1679.6	1102.4	884.2	869.4	891.6	910.1	943.4	950.8	958.2
40°	2500.8	2334.4	1601.9	947.1	813.9	813.9	828.7	832.4	850.9	862.0	869.4
42.5°	2637.7	2404.7	1461.3	802.8	739.9	765.8	769.5	762.1	747.3	754.7	758.4
45°	2804.2	2482.3	1298.5	699.2	684.4	717.7	725.1	695.5	669.6	654.8	647.4
47.5°	2967.0	2563.7	1157.9	614.1	632.6	684.4	684.4	651.1	606.7	569.7	554.9
50°	3115.0	2645.1	1043.3	562.3	580.8	658.5	665.9	603.0	554.9	510.5	503.1
52.5°	3362.8	2782.0	924.9	521.6	551.2	640.0	636.3	580.8	517.9	469.8	466.1
55°	3581.1	2918.9	769.5	480.9	521.6	614.1	625.2	558.6	473.5	429.1	421.7
57.5°	3740.2	2952.2	614.1	440.2	492.0	584.5	599.3	514.2	443.9	406.9	403.2
60°	3769.8	2822.7	499.4	406.9	451.3	543.8	554.9	488.3	421.7	392.1	384.7
62.5°	3632.9	2574.8	425.4	377.3	418.0	503.1	525.3	458.7	399.5	373.6	369.9
65°	3322.1	2212.3	373.6	351.5	395.8	473.5	499.4	436.5	381.0	358.8	355.1
67.5°	2630.3	1698.1	333.0	333.0	366.2	443.9	480.9	421.7	362.5	347.8	344.1
70°	1720.3	1021.1	303.4	307.1	344.1	418.0	458.7	403.2	340.4	336.7	329.3
72.5°	739.9	469.8	270.1	281.2	310.8	373.6	425.4	377.3	314.5	303.4	292.3
75°	340.4	284.9	244.2	251.6	277.5	329.3	384.7	347.8	292.3	273.8	262.7
77.5°	240.5	207.2	203.5	218.3	236.8	284.9	340.4	325.6	270.1	255.3	247.9
80°	177.6	159.1	170.2	185.0	196.1	262.7	321.9	299.7	247.9	225.7	214.6
82.5°	125.8	118.4	133.2	148.0	159.1	229.4	296.0	262.7	207.2	188.7	170.2
85°	74.0	77.7	92.5	99.9	111.0	170.2	247.9	210.9	159.1	122.1	118.4
87.5°	33.3	33.3	44.4	48.1	55.5	99.9	166.5	133.2	99.9	77.7	74.0
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)