

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: P670934

Luminaire Tested: **CCP-SA-2D-727-U-T4FT**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P670934  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2D-727-U-T4FT  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ T4FT distribution lens  
Light Source: (32) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

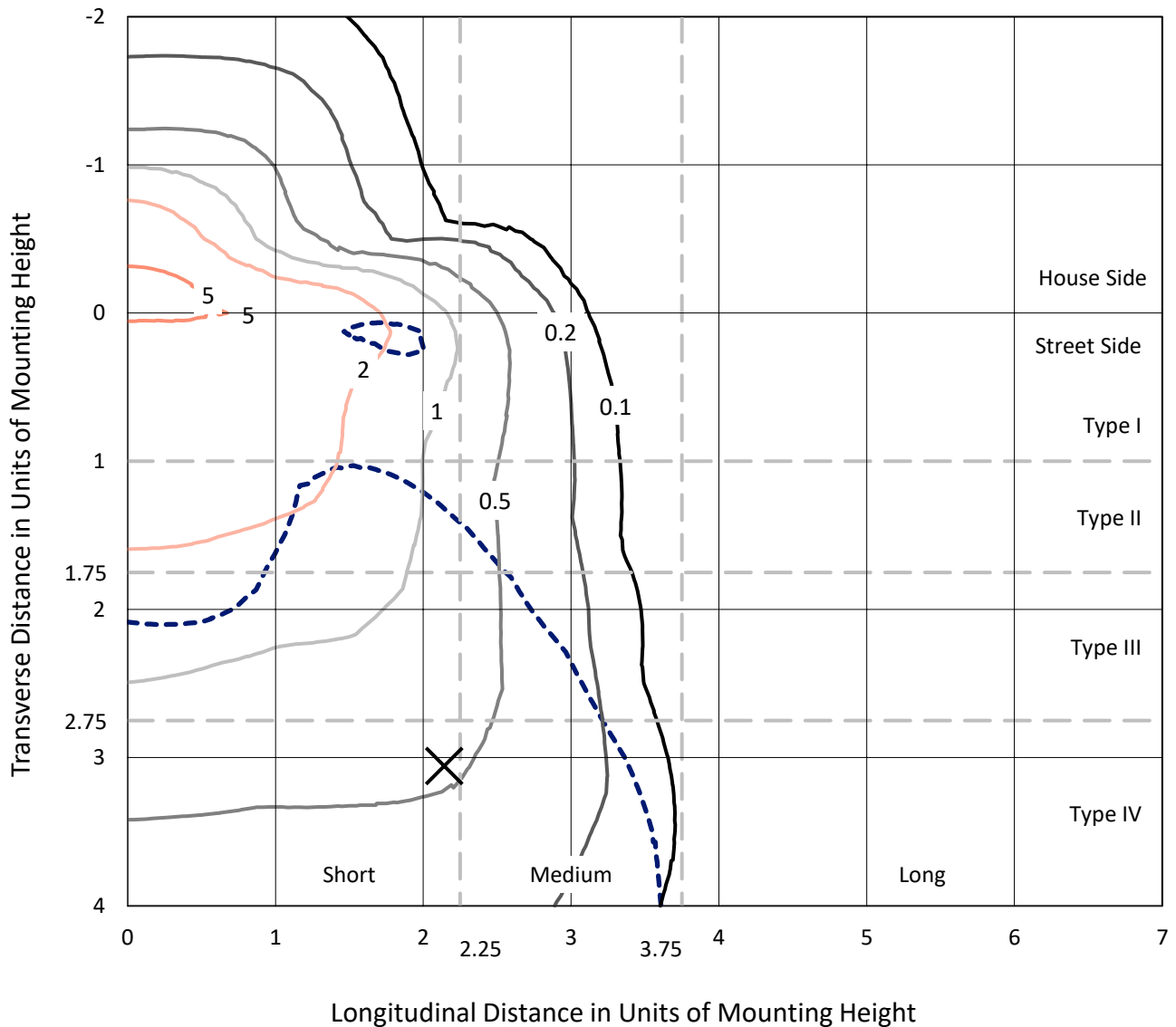
Lumens per Lamp: N/A  
Luminaire Lumens: 9321.3 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 80.8  
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

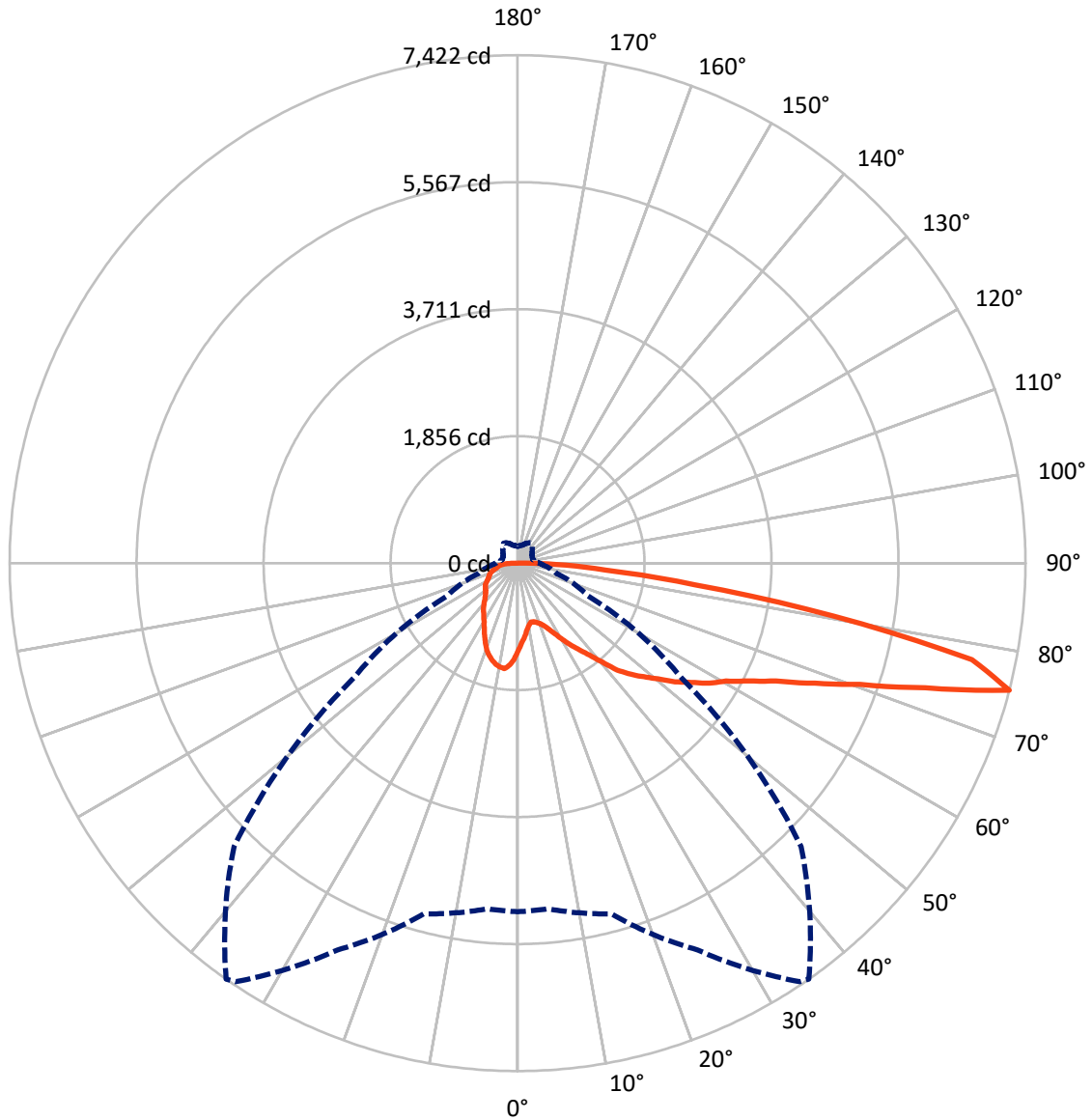
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.7 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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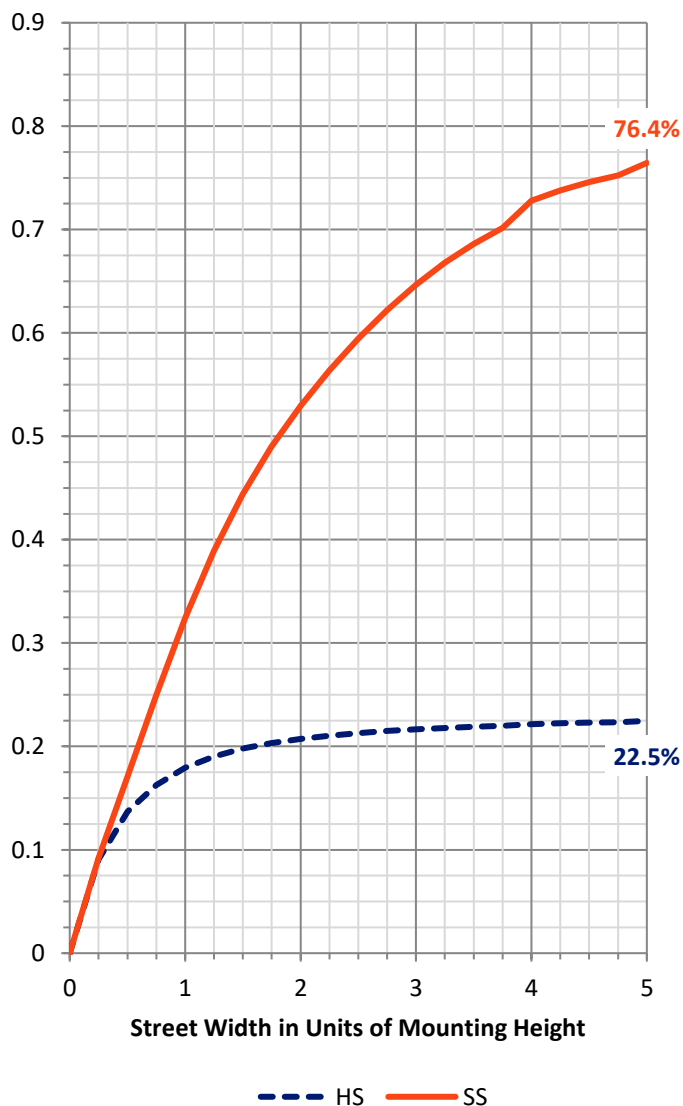
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2142.3	0.0	2142.3
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	7179.0	0.0	7179.0
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	9321.3	0.0	9321.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.7	1.3
10°-20°	353.2	3.8
20°-30°	586.0	6.3
30°-40°	868.7	9.3
40°-50°	1252.6	13.4
50°-60°	1722.5	18.5
60°-70°	2127.6	22.8
70°-80°	1946.4	20.9
80°-90°	342.7	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°	9321.3	100.0
0°-180°	9321.3	100.0



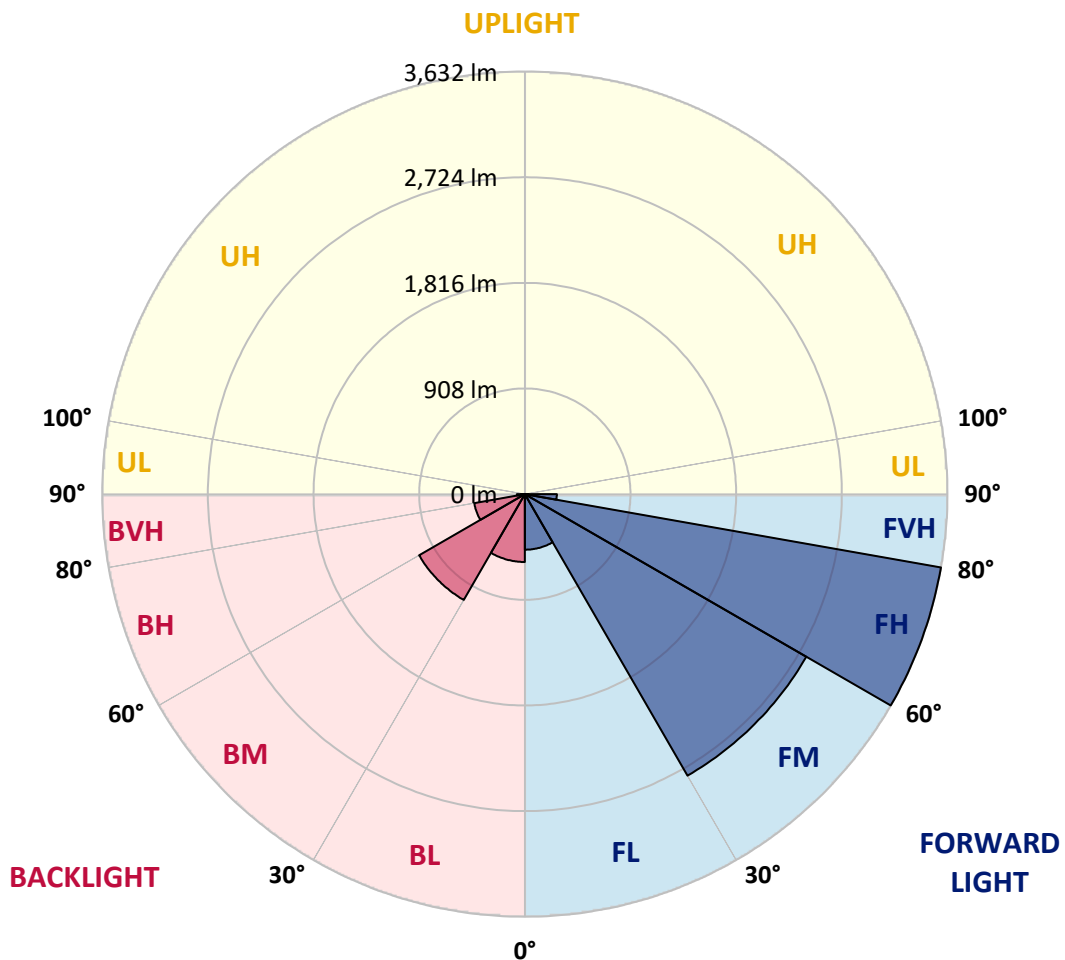
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	477.8	5.1			
FM (30°-60°)	2793.9	30.0			
FH (60°-80°)	3632.3	39.0			G2/5000
FVH (80°-90°)	275.0	3.0			G3/500
BL (0°-30°)	583.1	6.3	B2/1000		
BM (30°-60°)	1049.8	11.3	B2/2500		
BH (60°-80°)	441.7	4.7	B1/500		G1/500
BVH (80°-90°)	67.7	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°	1277.1	1277.1	1277.1	1277.1	1277.1	1277.1	1277.1	1277.1	1277.1	1277.1	1277.1
2.5°	1156.9	1146.6	1156.9	1163.8	1163.8	1163.8	1174.1	1205.0	1225.6	1239.3	1263.3
5°	1036.8	1040.2	1047.1	1064.2	1074.5	1081.4	1098.6	1136.3	1167.2	1211.8	1263.3
7.5°	930.3	937.2	947.5	964.7	988.7	985.3	1023.0	1074.5	1132.9	1191.2	1266.8
10°	875.4	889.1	892.6	896.0	920.0	920.0	971.5	1029.9	1102.0	1177.5	1266.8
12.5°	885.7	885.7	875.4	872.0	885.7	882.3	926.9	995.6	1074.5	1181.0	1280.5
15°	916.6	916.6	896.0	875.4	896.0	889.1	926.9	981.8	1074.5	1184.4	1308.0
17.5°	957.8	961.2	937.2	902.9	909.7	913.2	940.6	992.1	1074.5	1191.2	1345.7
20°	1040.2	1023.0	985.3	930.3	954.4	944.1	985.3	1029.9	1095.1	1218.7	1400.7
22.5°	1112.3	1112.3	1040.2	992.1	995.6	995.6	1033.3	1071.1	1126.0	1256.5	1441.9
25°	1229.0	1222.1	1132.9	1060.8	1067.7	1071.1	1091.7	1136.3	1177.5	1277.1	1493.4
27.5°	1376.6	1359.5	1270.2	1187.8	1160.4	1170.7	1181.0	1215.3	1225.6	1311.4	1555.1
30°	1534.5	1510.5	1435.0	1304.5	1290.8	1294.2	1277.1	1297.7	1283.9	1366.3	1616.9
32.5°	1634.1	1634.1	1562.0	1465.9	1428.1	1428.1	1369.8	1383.5	1383.5	1417.8	1726.8
35°	1719.9	1713.1	1665.0	1592.9	1568.9	1555.1	1496.8	1517.4	1483.1	1517.4	1881.3
37.5°	1850.4	1829.8	1809.2	1761.1	1713.1	1702.8	1671.9	1685.6	1637.5	1620.4	2056.4
40°	2001.4	1991.1	1970.5	1949.9	1901.9	1898.4	1864.1	1877.8	1826.4	1761.1	2231.4
42.5°	2224.6	2193.7	2128.5	2111.3	2121.6	2135.3	2121.6	2097.6	2004.9	1922.5	2420.3
45°	2447.7	2399.7	2276.1	2248.6	2327.6	2317.3	2375.6	2365.3	2214.3	2083.8	2619.4
47.5°	2591.9	2550.7	2451.2	2434.0	2468.3	2482.1	2657.1	2626.2	2385.9	2231.4	2811.6
50°	2694.9	2698.3	2567.9	2612.5	2657.1	2657.1	2876.9	2873.4	2595.3	2413.4	3062.2
52.5°	2846.0	2797.9	2743.0	2784.2	2846.0	2880.3	3151.5	3076.0	2725.8	2567.9	3343.7
55°	2924.9	2904.3	2856.3	2928.3	3058.8	3076.0	3364.3	3306.0	2873.4	2749.8	3632.1
57.5°	2955.8	2973.0	3051.9	3082.8	3264.8	3309.4	3556.6	3474.2	3010.7	2976.4	3855.3
60°	3093.1	3069.1	3175.5	3299.1	3474.2	3498.2	3796.9	3618.4	3144.6	3124.0	3927.3
62.5°	3371.2	3309.4	3367.8	3515.4	3759.1	3790.0	4050.9	3810.6	3203.0	3223.6	3923.9
65°	3776.3	3731.7	3645.8	3762.6	4105.9	4150.5	4349.6	3975.4	3185.8	3189.3	3645.8
67.5°	4253.5	4181.4	4092.1	4164.2	4583.0	4686.0	4713.5	4047.5	3065.7	2997.0	2966.1
70°	4672.3	4624.2	4565.9	4689.5	5273.1	5310.8	5166.7	4002.9	2732.7	2406.5	1977.4
72.5°	5063.7	5039.6	5074.0	5537.4	6206.9	6230.9	5592.4	3721.4	2159.4	1459.0	920.0
75°	5094.6	5070.5	5307.4	6237.8	7377.5	7422.1	5856.7	2918.0	1139.8	593.9	387.9
77.5°	3450.2	3522.3	3965.1	5461.9	6776.7	6787.0	4789.0	1356.0	470.3	350.2	271.2
80°	848.0	940.6	1493.4	2825.4	4569.3	4682.6	2622.8	456.6	309.0	267.8	202.5
82.5°	309.0	336.4	607.6	1277.1	2567.9	2612.5	916.6	247.2	223.1	206.0	147.6
85°	147.6	151.1	288.4	628.2	1297.7	1283.9	329.6	147.6	161.4	140.8	89.3
87.5°	61.8	61.8	127.0	291.8	573.3	556.1	106.4	68.7	92.7	82.4	44.6
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°	1277.1	1277.1	1277.1	1277.1	1277.1	1277.1	1277.1	1277.1	1277.1	1277.1	1277.1
2.5°	1280.5	1287.4	1314.8	1335.4	1356.0	1373.2	1400.7	1400.7	1417.8	1417.8	1417.8
5°	1277.1	1314.8	1359.5	1407.5	1438.4	1469.3	1496.8	1500.2	1510.5	1524.3	1527.7
7.5°	1290.8	1328.6	1400.7	1469.3	1507.1	1520.8	1555.1	1544.8	1544.8	1544.8	1555.1
10°	1318.3	1359.5	1459.0	1520.8	1548.3	1551.7	1541.4	1534.5	1514.0	1507.1	1496.8
12.5°	1338.9	1411.0	1510.5	1558.6	1548.3	1538.0	1514.0	1479.6	1455.6	1448.7	1448.7
15°	1390.4	1462.5	1555.1	1572.3	1555.1	1500.2	1469.3	1431.6	1411.0	1380.1	1393.8
17.5°	1435.0	1517.4	1599.8	1579.2	1544.8	1459.0	1414.4	1359.5	1332.0	1297.7	1297.7
20°	1493.4	1568.9	1641.0	1586.0	1510.5	1417.8	1345.7	1277.1	1239.3	1205.0	1211.8
22.5°	1558.6	1627.2	1665.0	1558.6	1459.0	1352.6	1253.0	1187.8	1139.8	1119.2	1126.0
25°	1610.1	1685.6	1678.7	1514.0	1397.2	1270.2	1160.4	1098.6	1088.3	1067.7	1067.7
27.5°	1675.3	1754.3	1668.4	1459.0	1294.2	1139.8	1071.1	1047.1	1047.1	1036.8	1043.6
30°	1761.1	1816.1	1644.4	1380.1	1163.8	1023.0	988.7	1002.4	1026.5	1016.2	1019.6
32.5°	1901.9	1895.0	1623.8	1290.8	1026.5	909.7	933.8	961.2	981.8	992.1	999.0
35°	2039.2	1994.6	1599.8	1170.7	899.4	854.8	875.4	906.3	944.1	954.4	957.8
37.5°	2176.5	2097.6	1558.6	1023.0	820.5	806.8	827.4	844.5	875.4	882.3	889.1
40°	2320.7	2166.2	1486.5	878.8	755.3	755.3	769.0	772.4	789.6	799.9	806.8
42.5°	2447.7	2231.4	1356.0	745.0	686.6	710.6	714.1	707.2	693.5	700.3	703.8
45°	2602.2	2303.5	1205.0	648.8	635.1	666.0	672.9	645.4	621.4	607.6	600.8
47.5°	2753.3	2379.1	1074.5	569.9	587.0	635.1	635.1	604.2	563.0	528.7	514.9
50°	2890.6	2454.6	968.1	521.8	539.0	611.1	617.9	559.6	514.9	473.8	466.9
52.5°	3120.6	2581.6	858.2	484.1	511.5	593.9	590.5	539.0	480.6	436.0	432.6
55°	3323.1	2708.6	714.1	446.3	484.1	569.9	580.2	518.4	439.4	398.2	391.4
57.5°	3470.8	2739.5	569.9	408.5	456.6	542.4	556.1	477.2	412.0	377.6	374.2
60°	3498.2	2619.4	463.5	377.6	418.8	504.7	514.9	453.2	391.4	363.9	357.0
62.5°	3371.2	2389.4	394.8	350.2	387.9	466.9	487.5	425.7	370.8	346.7	343.3
65°	3082.8	2052.9	346.7	326.1	367.3	439.4	463.5	405.1	353.6	333.0	329.6
67.5°	2440.9	1575.7	309.0	309.0	339.9	412.0	446.3	391.4	336.4	322.7	319.3
70°	1596.3	947.5	281.5	284.9	319.3	387.9	425.7	374.2	315.8	312.4	305.5
72.5°	686.6	436.0	250.6	260.9	288.4	346.7	394.8	350.2	291.8	281.5	271.2
75°	315.8	264.3	226.6	233.4	257.5	305.5	357.0	322.7	271.2	254.0	243.7
77.5°	223.1	192.2	188.8	202.5	219.7	264.3	315.8	302.1	250.6	236.9	230.0
80°	164.8	147.6	157.9	171.6	181.9	243.7	298.7	278.1	230.0	209.4	199.1
82.5°	116.7	109.9	123.6	137.3	147.6	212.8	274.6	243.7	192.2	175.1	157.9
85°	68.7	72.1	85.8	92.7	103.0	157.9	230.0	195.7	147.6	113.3	109.9
87.5°	30.9	30.9	41.2	44.6	51.5	92.7	154.5	123.6	92.7	72.1	68.7
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)