

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: P676627

Luminaire Tested: **CCW-SA-2E-835-U-T4FT-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676627  
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-T4FT-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/  
T4FT distribution lens and House Side Shield  
Light Source: (32) 3500K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

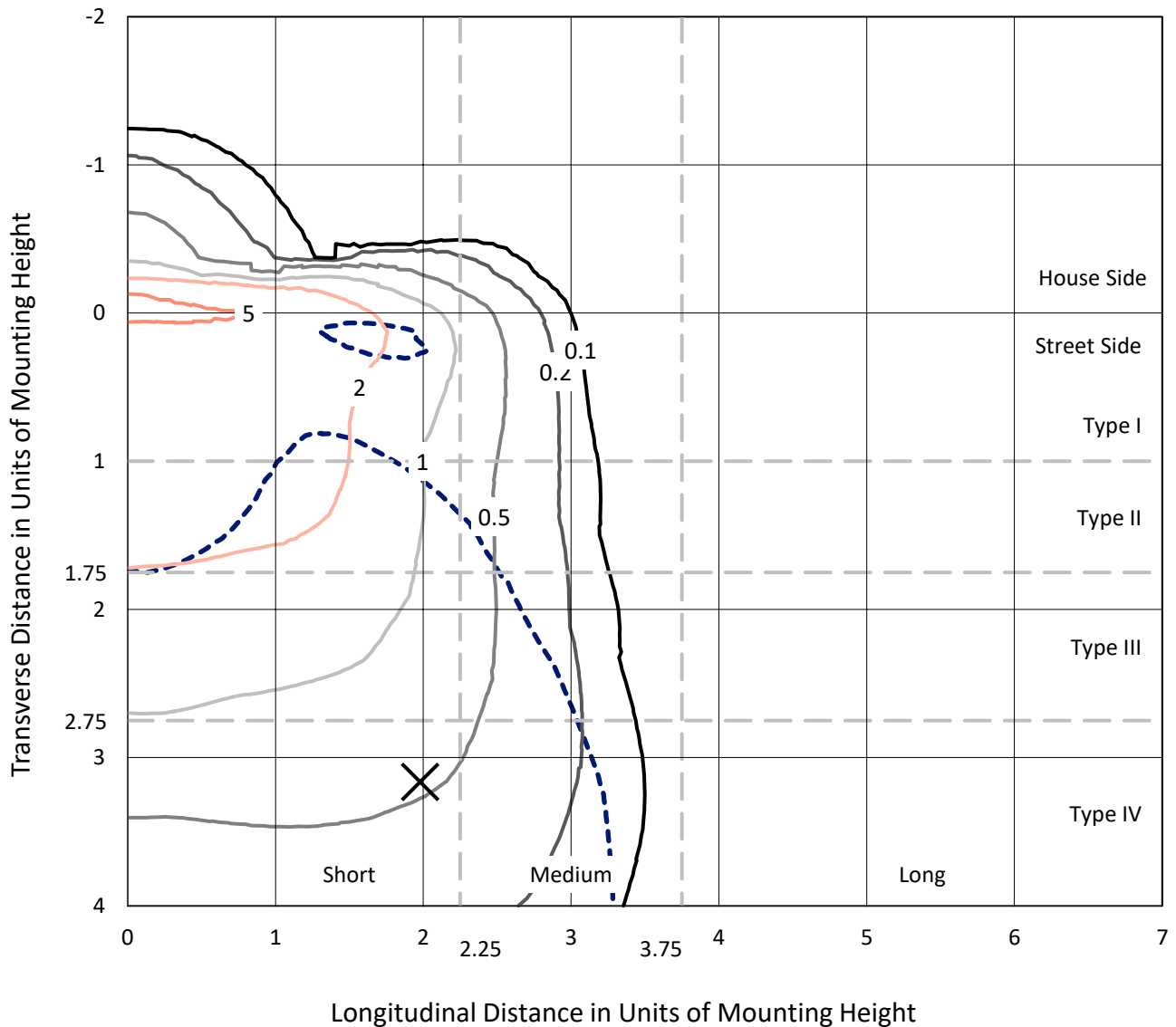
Lumens per Lamp: N/A  
Luminaire Lumens: 8090 lumens  
Efficiency: N/A  
Efficacy: 75.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

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

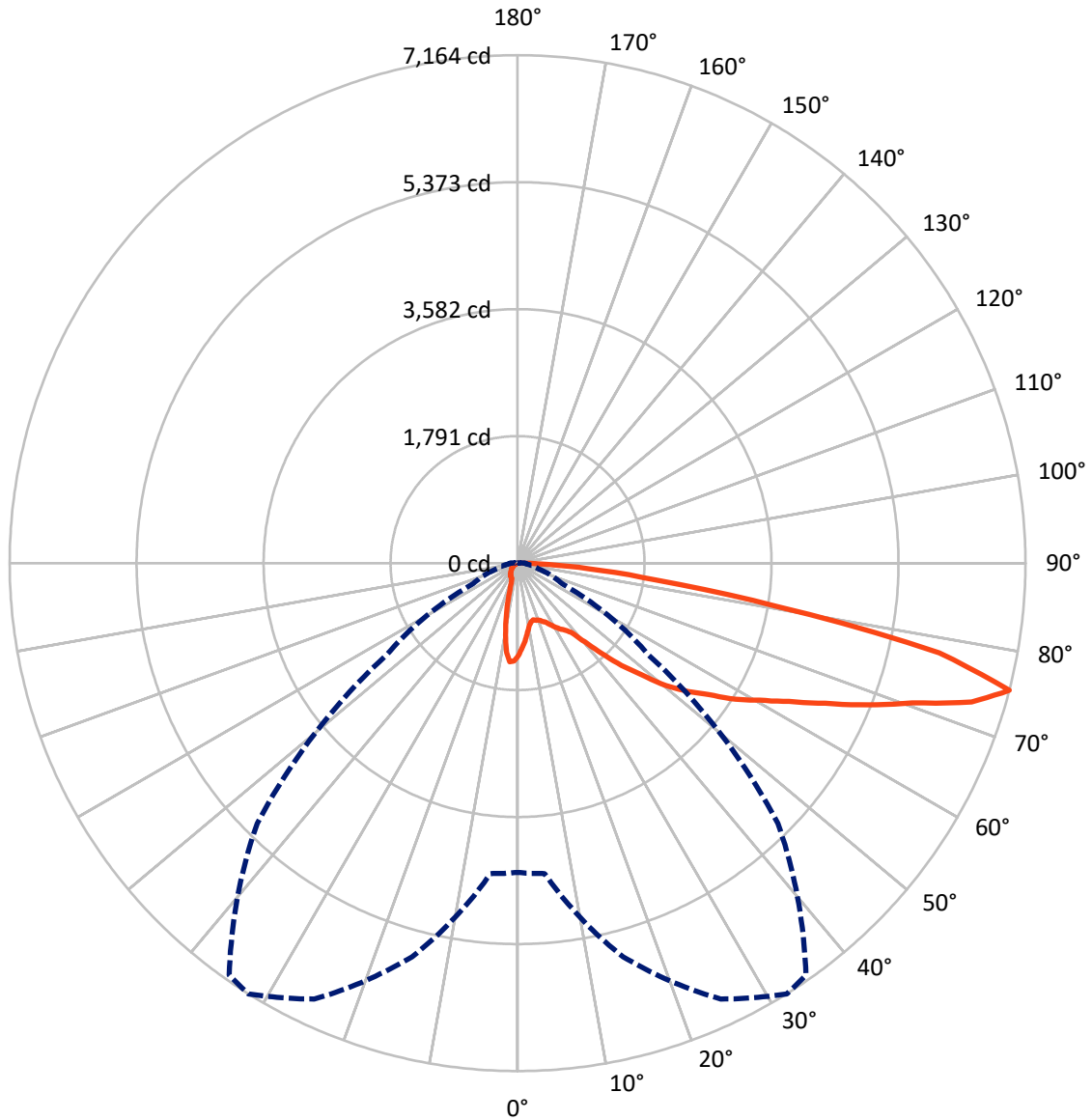
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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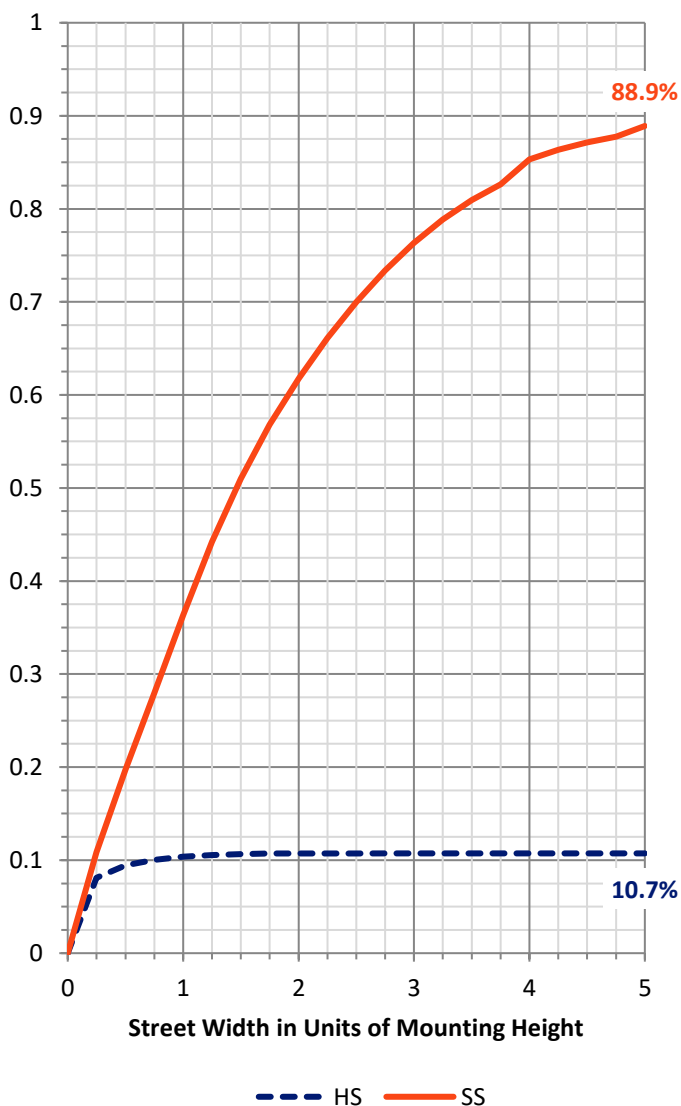
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	874.0	0.0	874.0
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	7216.0	0.0	7216.0
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	8090.0	0.0	8090.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.8	1.4
10°-20°	260.6	3.2
20°-30°	390.2	4.8
30°-40°	599.0	7.4
40°-50°	1047.5	12.9
50°-60°	1637.3	20.2
60°-70°	2116.8	26.2
70°-80°	1724.1	21.3
80°-90°	199.6	2.5
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°	8090.0	100.0
0°-180°	8090.0	100.0



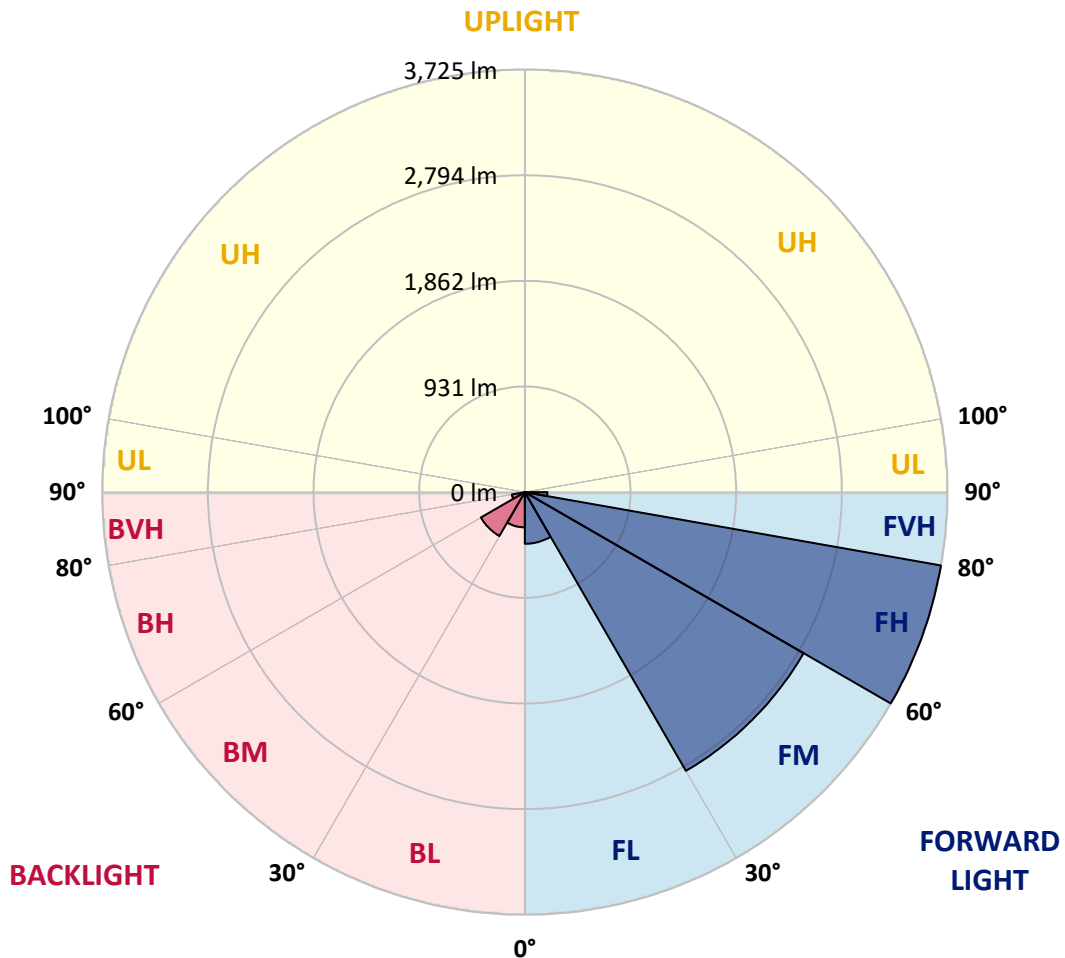
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	455.2	5.6			
FM (30°-60°)	2836.7	35.1			
FH (60°-80°)	3724.7	46.0			G2/5000
FVH (80°-90°)	199.4	2.5			G2/225
BL (0°-30°)	310.5	3.8	B1/500		
BM (30°-60°)	447.1	5.5	B1/1000		
BH (60°-80°)	116.2	1.4	B1/500		G1/500
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	1306.3	1306.3	1306.3	1306.3	1306.3	1306.3	1306.3	1306.3	1306.3	1306.3	1306.3
2.5°	1171.5	1188.1	1186.0	1196.4	1198.5	1204.7	1219.2	1219.2	1260.7	1289.7	1308.4
5°	1065.8	1055.4	1059.5	1072.0	1103.1	1101.0	1136.3	1154.9	1204.7	1246.1	1289.7
7.5°	935.1	933.1	941.3	970.4	993.2	1011.8	1049.2	1096.9	1163.2	1225.4	1302.1
10°	852.2	848.0	864.6	872.9	899.9	912.3	970.4	1045.0	1123.8	1213.0	1302.1
12.5°	833.5	819.0	827.3	825.2	850.1	856.3	912.3	1003.6	1098.9	1208.8	1318.7
15°	843.9	833.5	825.2	825.2	831.5	835.6	895.7	976.6	1084.4	1215.0	1356.0
17.5°	877.1	870.9	846.0	821.1	848.0	848.0	885.4	970.4	1086.5	1233.7	1401.7
20°	916.5	910.2	866.7	837.7	856.3	877.1	916.5	984.9	1092.7	1248.2	1472.2
22.5°	960.0	960.0	899.9	866.7	891.6	893.7	964.2	1030.5	1117.6	1285.5	1517.8
25°	1013.9	1009.8	951.7	914.4	922.7	945.5	1009.8	1080.3	1163.2	1337.4	1602.8
27.5°	1084.4	1078.2	1009.8	972.5	982.8	1007.7	1080.3	1150.8	1204.7	1358.1	1675.4
30°	1142.5	1136.3	1080.3	1024.3	1047.1	1069.9	1154.9	1217.1	1256.5	1397.5	1758.3
32.5°	1154.9	1144.5	1107.2	1082.3	1107.2	1150.8	1217.1	1281.4	1341.5	1497.0	1915.9
35°	1298.0	1260.7	1163.2	1123.8	1161.1	1175.6	1285.5	1399.6	1457.6	1575.8	2092.1
37.5°	1571.7	1536.4	1407.9	1298.0	1246.1	1262.7	1405.8	1546.8	1602.8	1723.0	2284.9
40°	1907.6	1849.5	1712.7	1565.5	1459.7	1439.0	1532.3	1739.6	1793.5	1907.6	2537.9
42.5°	2291.2	2235.2	2023.7	1849.5	1741.7	1714.7	1729.3	1963.6	2009.2	2077.6	2703.8
45°	2566.9	2537.9	2299.5	2144.0	2058.9	2029.9	1994.7	2208.2	2266.3	2289.1	2944.3
47.5°	2726.6	2705.9	2573.2	2467.4	2353.4	2322.3	2345.1	2548.3	2508.9	2527.5	3174.5
50°	2940.2	2886.2	2705.9	2739.0	2716.2	2707.9	2747.3	2836.5	2778.4	2724.5	3425.3
52.5°	3112.3	3016.9	2890.4	2971.3	3006.5	3037.6	3176.5	3242.9	2983.7	2900.8	3587.1
55°	3218.0	3126.8	3159.9	3234.6	3271.9	3415.0	3578.8	3529.0	3118.5	3041.8	3802.7
57.5°	3313.4	3319.6	3408.8	3431.6	3622.3	3647.2	3962.4	3800.6	3213.9	3170.3	3887.7
60°	3543.5	3520.7	3593.3	3740.5	3923.0	4061.9	4362.5	3983.1	3261.5	3236.7	3864.9
62.5°	3958.2	3817.2	3842.1	4028.7	4296.2	4447.6	4592.7	4066.0	3249.1	3247.0	3796.5
65°	4484.9	4323.2	4248.5	4422.7	4768.9	4982.5	4851.9	4159.4	3166.2	3224.2	3541.5
67.5°	4922.4	4924.5	4785.5	4883.0	5335.0	5380.6	5096.6	4140.7	3027.2	3043.8	2919.4
70°	5426.2	5494.7	5372.3	5677.1	5903.1	5932.2	5376.5	3987.3	2728.7	2295.3	1677.4
72.5°	5554.8	5590.0	5971.6	6440.2	6695.2	6703.5	5652.2	3475.1	1795.6	1013.9	520.4
75°	4362.5	4395.7	5747.6	6784.3	7163.8	7091.2	5191.9	2255.9	698.8	296.5	124.4
77.5°	2434.2	2444.6	3568.4	5484.3	6077.3	5784.9	3636.8	879.1	282.0	170.0	58.1
80°	665.6	781.7	1322.9	2703.8	3711.5	3643.1	1731.3	286.1	182.5	132.7	27.0
82.5°	159.7	172.1	425.1	1196.4	1961.5	2046.5	516.3	145.1	126.5	109.9	14.5
85°	58.1	64.3	130.6	582.6	1007.7	924.8	155.5	72.6	93.3	85.0	6.2
87.5°	20.7	20.7	41.5	190.8	294.4	221.9	51.8	24.9	47.7	51.8	2.1
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°	1306.3	1306.3	1306.3	1306.3	1306.3	1306.3	1306.3	1306.3	1306.3	1306.3	1306.3
2.5°	1310.4	1310.4	1339.5	1364.3	1372.6	1383.0	1372.6	1395.4	1393.4	1383.0	1387.1
5°	1312.5	1349.8	1374.7	1391.3	1399.6	1397.5	1401.7	1376.8	1362.3	1351.9	1341.5
7.5°	1322.9	1358.1	1403.7	1399.6	1376.8	1329.1	1291.8	1225.4	1161.1	1159.1	1148.7
10°	1358.1	1389.2	1416.2	1399.6	1316.6	1171.5	1053.3	964.2	883.3	846.0	850.1
12.5°	1383.0	1441.1	1428.6	1343.6	1171.5	980.7	806.6	675.9	603.4	535.0	535.0
15°	1434.8	1455.6	1451.4	1262.7	993.2	765.1	553.6	420.9	344.2	313.1	308.9
17.5°	1484.6	1507.4	1436.9	1140.4	816.9	514.2	335.9	261.3	250.9	246.7	248.8
20°	1546.8	1548.9	1424.5	1018.1	613.7	325.5	240.5	234.3	236.4	234.3	234.3
22.5°	1613.1	1627.7	1380.9	846.0	408.5	236.4	223.9	226.0	226.0	226.0	232.2
25°	1700.2	1677.4	1312.5	682.2	267.5	217.7	217.7	219.8	219.8	219.8	221.9
27.5°	1758.3	1727.2	1225.4	491.4	209.4	205.3	209.4	209.4	213.6	213.6	213.6
30°	1878.6	1797.7	1115.5	317.2	188.7	194.9	199.1	203.2	205.3	209.4	211.5
32.5°	1971.9	1859.9	978.7	211.5	172.1	176.2	186.6	194.9	203.2	201.1	201.1
35°	2141.9	1961.5	852.2	167.9	157.6	157.6	167.9	182.5	194.9	199.1	199.1
37.5°	2336.8	2044.4	675.9	153.4	145.1	145.1	151.4	167.9	184.5	192.8	188.7
40°	2498.5	2139.8	499.7	143.1	134.8	134.8	138.9	151.4	170.0	184.5	186.6
42.5°	2612.6	2210.3	338.0	132.7	126.5	124.4	130.6	136.8	151.4	172.1	176.2
45°	2716.2	2247.6	209.4	122.3	118.2	118.2	118.2	124.4	134.8	153.4	157.6
47.5°	2900.8	2289.1	151.4	114.0	107.8	109.9	112.0	114.0	122.3	126.5	128.6
50°	3056.3	2320.2	124.4	105.7	101.6	103.7	103.7	103.7	107.8	101.6	101.6
52.5°	3174.5	2289.1	105.7	97.5	93.3	95.4	93.3	93.3	89.2	80.9	80.9
55°	3261.5	2233.1	85.0	89.2	89.2	89.2	85.0	78.8	70.5	64.3	64.3
57.5°	3284.4	2137.7	66.4	74.6	80.9	80.9	72.6	64.3	53.9	47.7	45.6
60°	3249.1	1930.4	49.8	53.9	62.2	64.3	58.1	47.7	37.3	31.1	31.1
62.5°	3122.6	1766.6	39.4	35.2	45.6	47.7	41.5	31.1	20.7	14.5	12.4
65°	2882.1	1513.6	29.0	24.9	31.1	33.2	27.0	14.5	6.2	2.1	0.0
67.5°	2311.9	1140.4	18.7	16.6	20.7	20.7	12.4	4.1	0.0	0.0	0.0
70°	1279.3	640.7	12.4	8.3	10.4	6.2	2.1	0.0	0.0	0.0	0.0
72.5°	369.1	182.5	6.2	4.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	99.5	43.5	4.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	43.5	16.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	18.7	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)