

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: P674744

Luminaire Tested: **CCP-SA-2D-827-U-T3R-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674744  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2D-827-U-T3R-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ T3R distribution lens and House Side Shield  
Light Source: (32) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

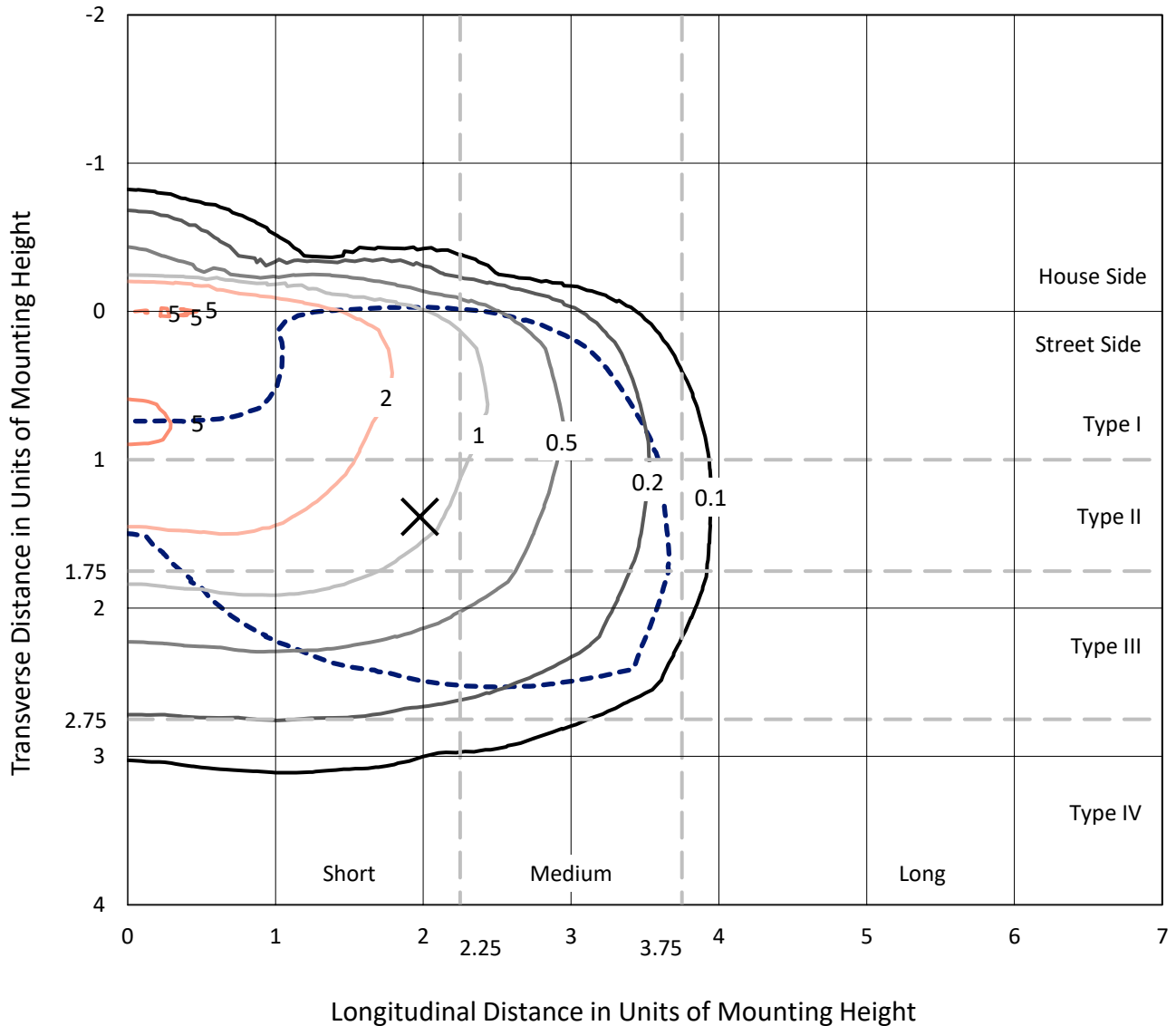
Lumens per Lamp: N/A  
Luminaire Lumens: 6502.1 lumens  
Efficiency: N/A  
Efficacy: 80.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

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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 CATALOG NUMBER: CCP-SA-2D-827-U-T3R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

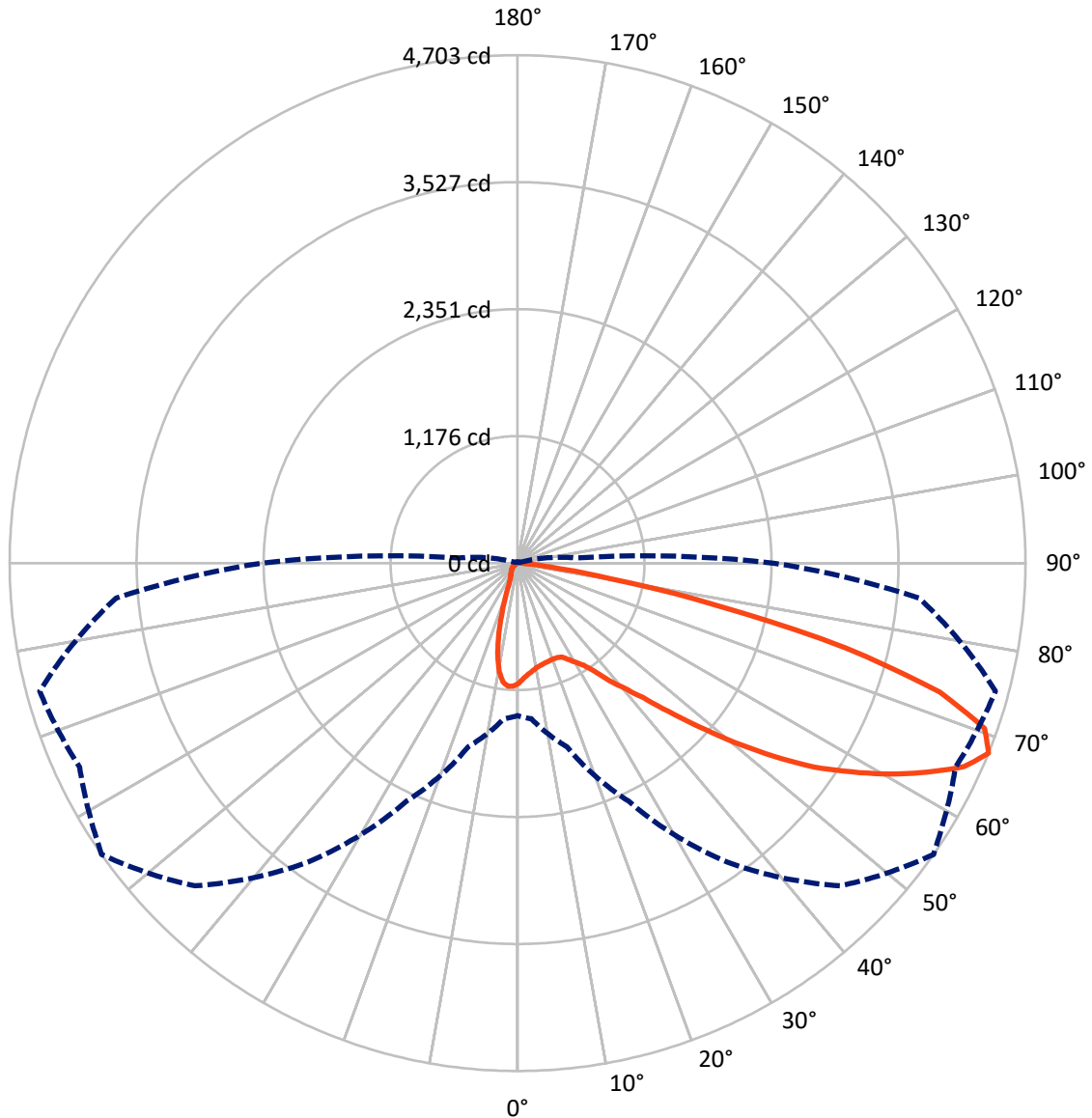
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.4 fc  
 Type III - Short - N/A

REPORT NUMBER: P674744  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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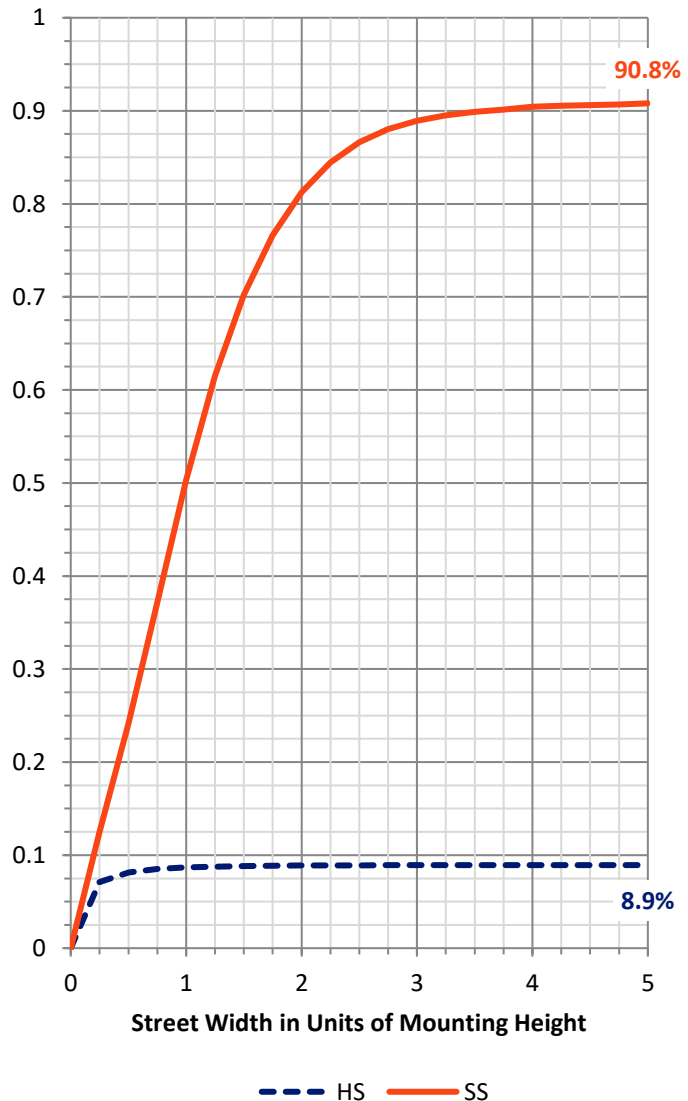
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	584.1	0.0	584.1
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	5918.0	0.0	5918.0
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	6502.1	0.0	6502.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.8	1.5
10°-20°	222.7	3.4
20°-30°	357.2	5.5
30°-40°	619.6	9.5
40°-50°	1033.1	15.9
50°-60°	1510.7	23.2
60°-70°	1761.5	27.1
70°-80°	854.9	13.1
80°-90°	44.7	0.7
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°	6502.1	100.0
0°-180°	6502.1	100.0

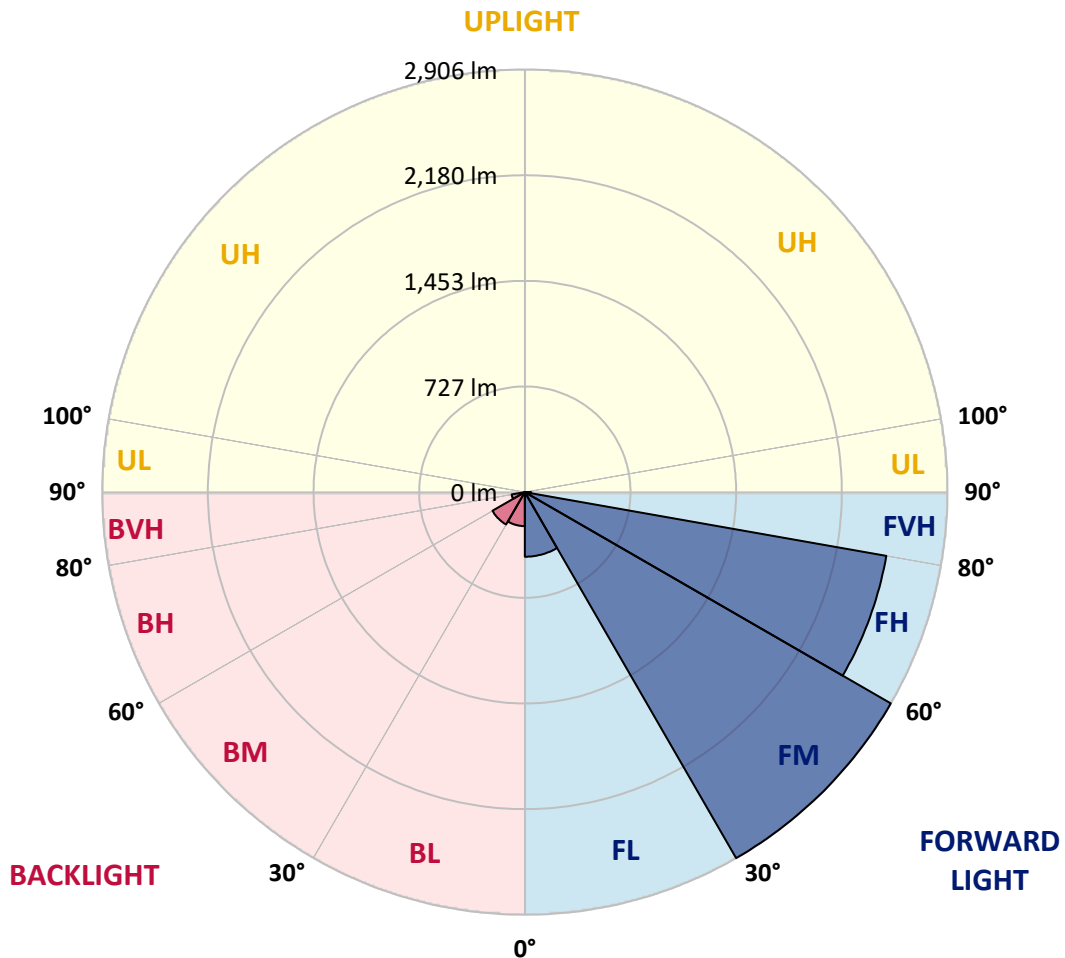


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	444.2	6.8			
FM (30°-60°)	2906.2	44.7			
FH (60°-80°)	2524.2	38.8			G2/5000
FVH (80°-90°)	43.4	0.7			G1/100
BL (0°-30°)	233.5	3.6	B1/500		
BM (30°-60°)	257.2	4.0	B1/1000		
BH (60°-80°)	92.2	1.4	B0/110		G0/110
BVH (80°-90°)	1.3	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3
2.5°	1028.6	1035.2	1043.6	1046.6	1056.8	1071.1	1066.9	1064.0	1080.1	1102.3	1109.5
5°	964.5	965.1	978.3	987.9	1005.2	1019.0	1034.0	1032.8	1062.2	1099.9	1123.9
7.5°	901.6	902.8	916.6	931.6	956.7	983.7	1006.4	1005.2	1052.6	1102.9	1148.4
10°	818.9	824.9	841.7	868.1	907.6	950.1	981.9	984.9	1041.8	1114.3	1182.0
12.5°	752.4	755.4	774.0	808.1	854.9	910.6	969.9	968.1	1044.2	1135.2	1225.7
15°	724.3	722.5	733.9	759.0	812.3	882.4	957.9	962.1	1052.6	1159.2	1271.2
17.5°	730.9	729.1	735.1	744.0	781.8	859.1	951.3	958.5	1065.7	1184.4	1313.8
20°	804.0	791.4	780.6	771.0	776.4	839.9	947.1	954.9	1073.5	1203.5	1358.7
22.5°	944.7	929.2	900.4	847.1	811.7	841.1	948.3	958.5	1090.9	1234.7	1413.2
25°	1174.2	1159.2	1097.5	988.5	895.0	884.2	964.5	975.3	1131.0	1282.0	1471.3
27.5°	1477.9	1444.4	1369.5	1213.1	1032.8	953.1	1013.0	1025.0	1188.0	1318.6	1510.9
30°	1730.1	1722.3	1650.4	1458.7	1222.7	1054.4	1067.5	1074.1	1213.7	1340.7	1550.4
32.5°	1991.9	1975.7	1909.8	1723.5	1443.2	1198.7	1128.6	1131.6	1247.3	1373.7	1607.9
35°	2219.6	2204.6	2149.5	1968.5	1700.8	1392.8	1229.9	1223.3	1316.8	1446.2	1685.8
37.5°	2430.4	2428.6	2380.1	2195.6	1932.0	1594.1	1379.1	1373.7	1425.2	1525.8	1791.2
40°	2636.5	2631.7	2590.4	2422.0	2159.7	1794.8	1521.0	1507.3	1517.4	1637.3	1930.2
42.5°	2762.9	2773.1	2787.5	2680.8	2429.8	2030.3	1700.8	1692.4	1690.6	1811.6	2112.9
45°	2831.2	2849.2	2933.7	2924.1	2716.2	2323.2	1956.6	1935.0	1927.8	2051.2	2322.0
47.5°	2897.7	2905.5	3043.9	3102.0	2990.6	2628.7	2265.7	2235.7	2206.4	2343.6	2571.8
50°	2901.9	2914.5	3085.8	3227.2	3220.6	2929.5	2612.5	2586.2	2552.6	2699.4	2815.6
52.5°	2843.2	2868.4	3080.4	3306.3	3363.2	3194.8	2972.6	2951.0	2923.5	3033.1	3021.1
55°	2437.6	2480.2	2975.0	3313.5	3463.2	3422.5	3334.4	3304.5	3277.5	3355.4	3222.4
57.5°	2244.7	2268.7	2655.1	3308.1	3590.8	3633.4	3648.3	3634.6	3596.8	3693.9	3432.7
60°	2129.1	2163.8	2502.3	3248.2	3728.6	3871.8	3965.9	3938.3	3892.2	4025.8	3657.9
62.5°	1990.7	2015.9	2350.2	3075.6	3810.7	4114.4	4263.6	4238.4	4143.2	4331.9	3840.0
65°	1735.5	1773.3	2108.1	2804.3	3700.5	4292.3	4544.0	4535.6	4370.2	4563.1	3889.8
67.5°	1412.6	1446.8	1758.9	2432.2	3378.2	4225.8	4702.7	4676.3	4473.3	4580.5	3732.2
70°	1060.4	1078.9	1314.4	1858.3	2767.7	3870.6	4587.7	4582.3	4316.9	4322.9	3248.8
72.5°	569.1	620.6	874.0	1243.7	1946.4	3134.9	4088.7	4067.1	3851.4	3540.5	2336.4
75°	198.9	213.9	465.5	698.5	1057.4	2088.4	3143.9	3093.6	2880.3	2302.8	1273.0
77.5°	122.2	134.2	206.7	357.0	411.6	906.4	1888.9	1823.6	1685.8	995.7	434.9
80°	84.5	95.3	138.4	186.9	140.2	293.5	869.3	844.7	650.0	237.2	100.0
82.5°	47.3	56.9	104.8	91.7	56.3	76.1	301.3	279.2	173.1	64.1	33.5
85°	27.6	32.9	73.7	64.7	28.8	27.0	78.5	70.1	44.9	24.0	16.2
87.5°	14.4	18.6	53.9	43.1	17.4	9.6	18.0	17.4	11.4	8.4	10.8
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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 CATALOG NUMBER: CCP-SA-2D-827-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3
2.5°	1122.7	1119.7	1135.2	1140.6	1139.4	1137.0	1143.0	1135.2	1134.6	1132.8	1131.0
5°	1143.0	1147.8	1160.4	1160.4	1143.6	1116.1	1099.3	1076.5	1057.4	1046.0	1044.2
7.5°	1173.6	1183.2	1191.6	1165.8	1108.3	1040.0	967.5	910.6	860.9	835.1	832.7
10°	1216.7	1225.7	1219.1	1145.4	1022.0	880.6	762.6	644.0	584.7	552.3	552.3
12.5°	1268.2	1275.4	1235.3	1094.5	880.0	675.2	517.6	393.0	333.7	295.3	292.9
15°	1323.9	1325.7	1232.9	1005.8	704.5	453.5	297.1	218.1	192.9	187.5	186.3
17.5°	1372.5	1365.3	1207.7	874.6	507.4	270.2	188.7	170.7	165.9	165.9	165.9
20°	1418.0	1394.0	1157.4	721.9	325.3	183.9	162.3	157.6	157.6	158.2	158.2
22.5°	1468.3	1421.0	1085.5	552.3	209.1	157.6	152.2	149.8	149.2	151.0	150.4
25°	1527.6	1447.4	982.5	381.6	161.7	146.8	144.4	142.0	142.0	142.0	142.0
27.5°	1560.6	1443.8	865.1	240.8	141.4	136.0	133.6	131.2	129.4	128.8	129.4
30°	1589.3	1422.8	711.7	168.3	127.6	121.6	119.8	116.8	113.2	112.0	112.0
32.5°	1627.1	1405.4	551.1	135.4	115.6	109.0	103.6	98.8	92.9	90.5	89.9
35°	1669.0	1373.7	403.8	119.2	104.8	96.5	88.1	80.3	72.5	70.1	69.5
37.5°	1721.1	1344.9	273.8	110.2	95.9	85.7	74.3	63.5	56.3	55.1	55.1
40°	1791.8	1321.0	189.3	102.4	87.5	75.5	61.7	50.3	45.5	44.3	44.3
42.5°	1888.3	1301.2	143.2	95.9	80.3	65.3	49.7	41.3	37.7	36.5	36.5
45°	2002.1	1270.6	121.0	89.9	73.1	55.1	41.3	34.7	32.9	32.9	32.9
47.5°	2132.7	1232.3	110.2	83.9	65.3	44.9	34.7	31.8	31.2	31.2	31.8
50°	2264.5	1186.8	102.4	76.7	56.3	38.3	31.8	30.0	30.0	30.6	30.6
52.5°	2353.8	1115.5	94.7	68.9	47.3	33.5	30.0	29.4	28.8	28.8	28.8
55°	2440.6	1053.2	83.9	60.5	39.5	31.2	28.8	28.2	28.2	27.6	27.6
57.5°	2531.1	1004.0	70.1	50.3	33.5	29.4	27.6	27.6	26.4	25.8	25.8
60°	2635.9	960.9	53.9	39.5	29.4	27.6	25.8	25.2	24.0	22.8	22.8
62.5°	2666.5	869.9	40.7	31.8	25.2	24.0	23.4	22.2	19.2	16.8	17.4
65°	2586.8	726.7	32.3	25.2	20.4	20.4	18.6	15.6	12.6	10.8	10.8
67.5°	2366.9	542.8	26.4	19.8	16.2	15.6	13.2	11.4	7.8	6.6	6.6
70°	1950.6	358.8	21.6	15.6	13.2	10.8	9.0	8.4	6.0	4.8	4.8
72.5°	1367.1	194.7	18.0	12.6	9.6	7.2	6.0	5.4	4.2	3.6	3.0
75°	721.9	74.9	14.4	9.6	6.0	4.8	3.6	3.6	3.0	2.4	2.4
77.5°	247.4	31.8	10.2	5.4	4.2	3.0	2.4	1.8	2.4	1.8	1.8
80°	58.7	18.6	6.6	3.6	2.4	1.8	1.8	1.2	1.2	1.2	1.2
82.5°	25.8	10.8	4.2	2.4	2.4	1.8	1.2	0.6	0.6	0.6	0.6
85°	17.4	6.6	3.0	2.4	1.8	1.2	0.6	0.6	0.0	0.0	0.0
87.5°	13.8	4.2	2.4	2.4	1.8	1.2	0.6	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)