

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: P673778

Luminaire Tested: **CCP-SA-2B-850-U-SL2-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P673778  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2B-850-U-SL2-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ SL2 distribution lens and House Side Shield  
Light Source: (32) 5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

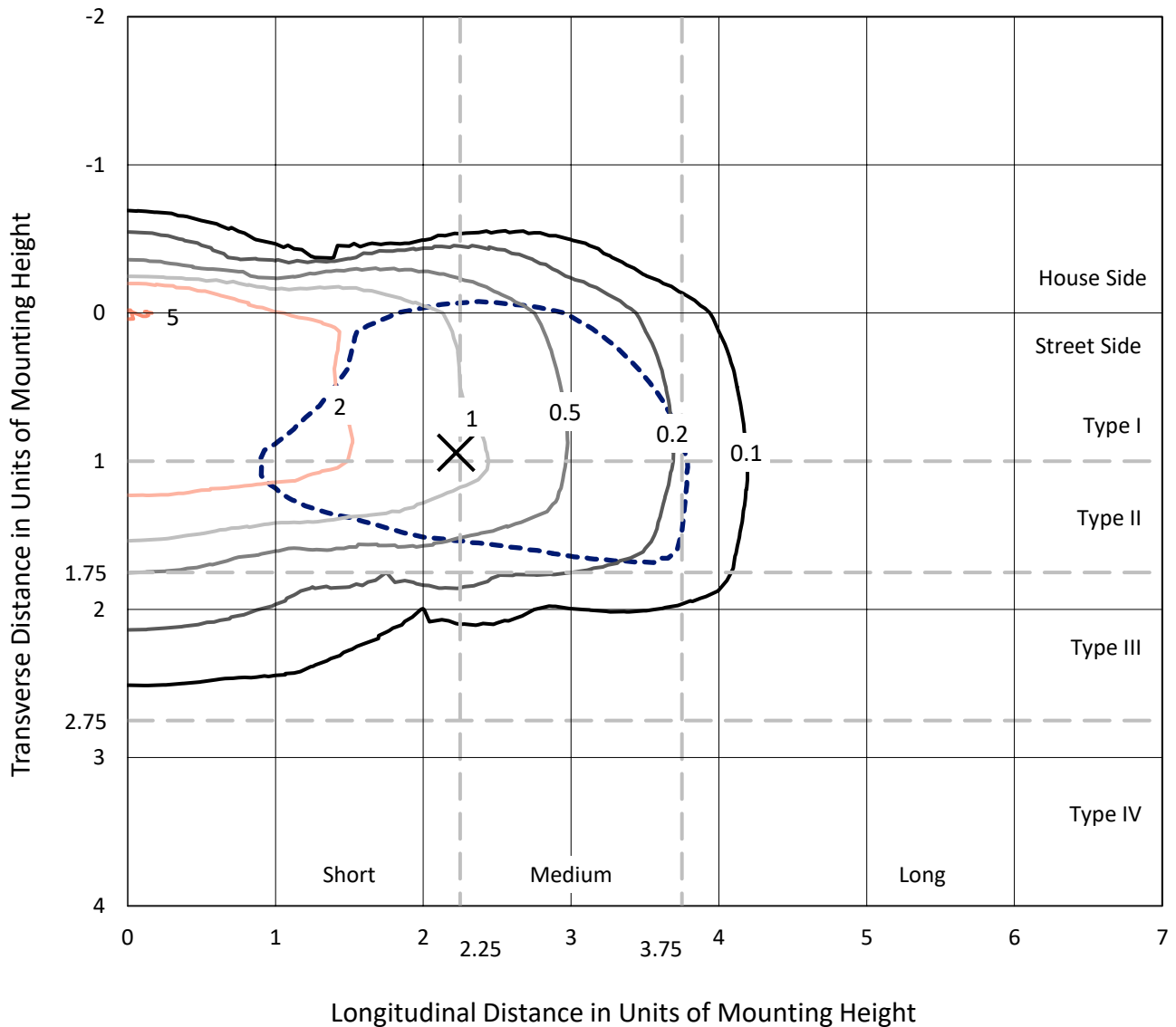
Lumens per Lamp: N/A  
Luminaire Lumens: 4846.1 lumens  
Efficiency: N/A  
Efficacy: 105.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 46  
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

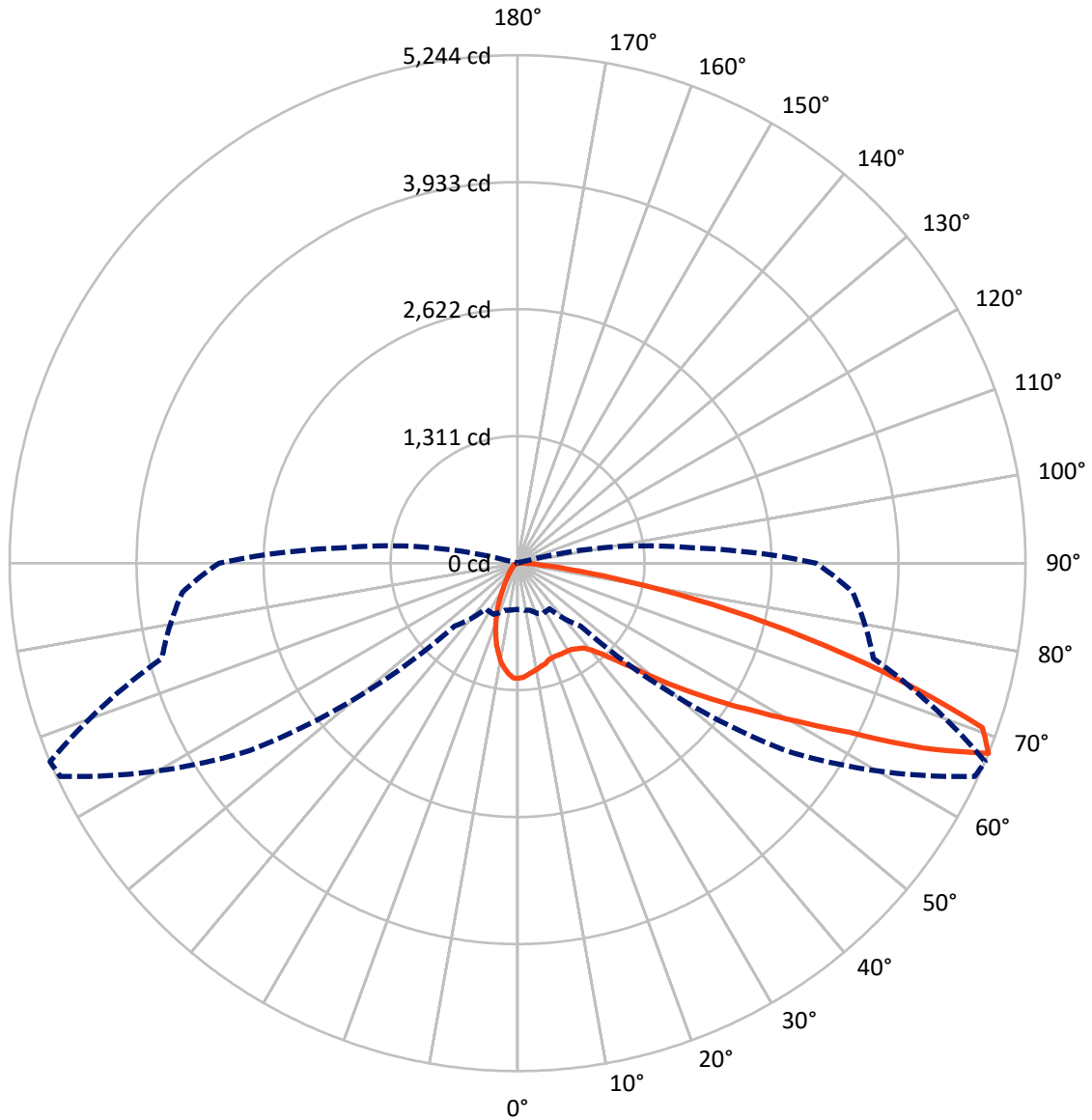
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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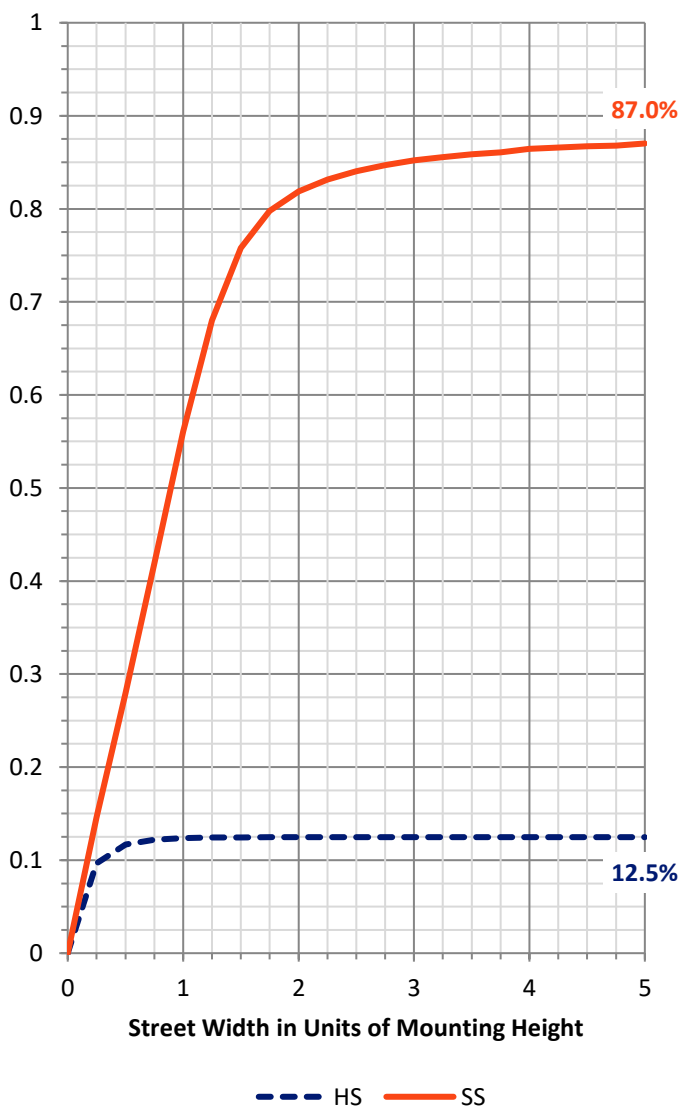
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	609.9	0.0	609.9
	% Fixture	12.6	0.0	12.6
<b>Street Side</b>	Lumens	4236.2	0.0	4236.2
	% Fixture	87.4	0.0	87.4
<b>Total</b>	Lumens	4846.1	0.0	4846.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.1	2.1
10°-20°	222.5	4.6
20°-30°	316.4	6.5
30°-40°	460.7	9.5
40°-50°	713.0	14.7
50°-60°	1094.2	22.6
60°-70°	1186.1	24.5
70°-80°	669.2	13.8
80°-90°	84.1	1.7
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°	4846.1	100.0
0°-180°	4846.1	100.0



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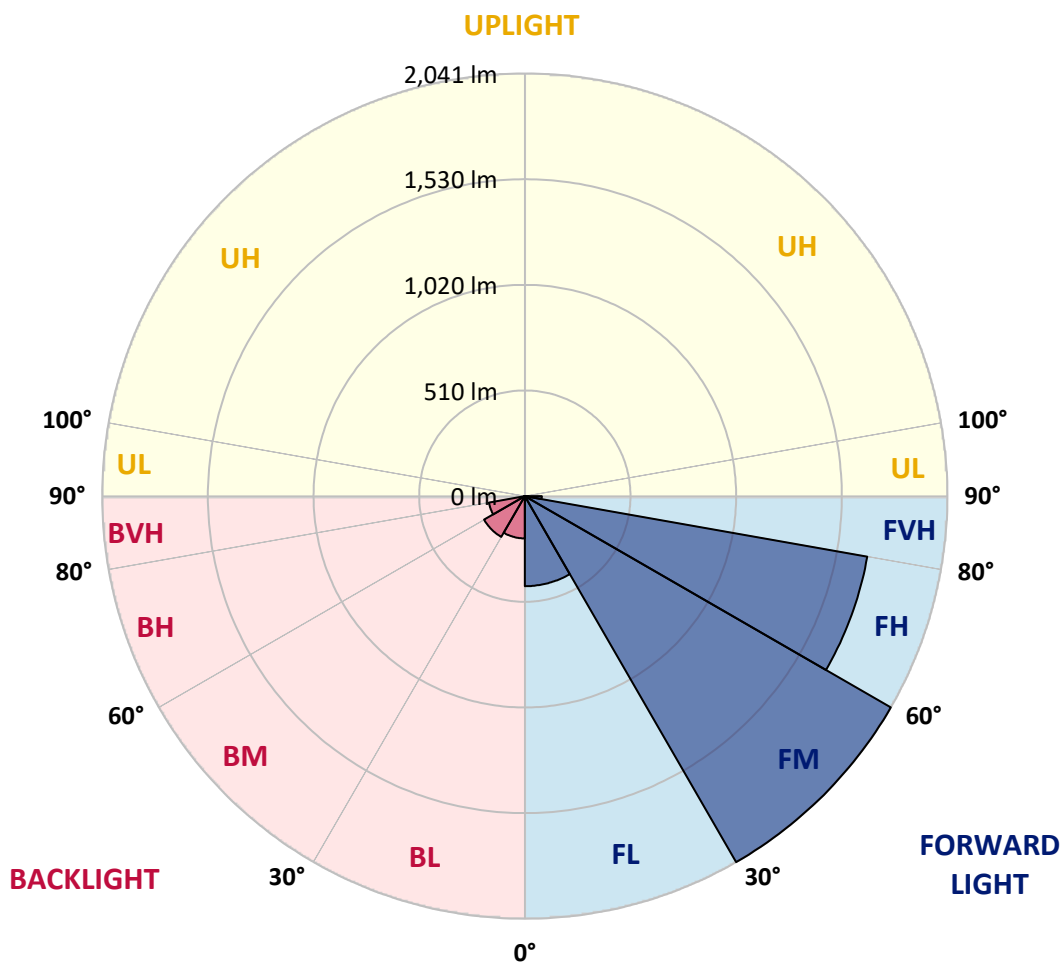
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	434.8	9.0			
FM (30°-60°)	2040.6	42.1			
FH (60°-80°)	1679.1	34.6			G1/1800
FVH (80°-90°)	81.7	1.7			G1/100
BL (0°-30°)	204.2	4.2	B1/500		
BM (30°-60°)	227.2	4.7	B1/1000		
BH (60°-80°)	176.2	3.6	B1/500		G1/500
BVH (80°-90°)	2.4	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1188.7	1188.7	1188.7	1188.7	1188.7	1188.7	1188.7	1188.7	1188.7	1188.7	1188.7
2.5°	1137.3	1143.1	1151.3	1163.0	1171.2	1166.5	1170.0	1189.8	1179.3	1188.7	1184.0
5°	1074.2	1080.1	1091.8	1090.6	1099.9	1117.4	1140.8	1166.5	1154.8	1182.8	1193.3
7.5°	1008.8	1006.5	1006.5	1031.0	1050.9	1075.4	1088.2	1130.3	1131.5	1156.0	1181.7
10°	949.3	956.3	968.0	977.3	996.0	1031.0	1068.4	1101.1	1113.9	1163.0	1170.0
12.5°	913.1	916.6	930.6	938.8	963.3	997.2	1036.9	1078.9	1089.4	1139.6	1173.5
15°	897.9	906.1	910.8	925.9	938.8	970.3	999.5	1047.4	1077.7	1117.4	1159.5
17.5°	909.6	906.1	908.4	913.1	928.3	956.3	987.8	1035.7	1046.2	1112.8	1175.8
20°	924.8	925.9	918.9	916.6	913.1	940.0	965.6	1027.5	1039.2	1112.8	1186.3
22.5°	965.6	952.8	965.6	947.0	928.3	940.0	964.5	1028.7	1036.9	1111.6	1196.8
25°	1015.9	1018.2	1021.7	982.0	955.1	947.0	972.7	1032.2	1039.2	1120.9	1201.5
27.5°	1087.1	1097.6	1080.1	1060.2	1006.5	965.6	971.5	1029.9	1042.7	1116.3	1213.2
30°	1182.8	1174.7	1177.0	1131.5	1078.9	1014.7	998.3	1035.7	1045.0	1122.1	1235.4
32.5°	1265.7	1256.4	1272.7	1256.4	1173.5	1084.7	1029.9	1047.4	1057.9	1136.1	1254.1
35°	1317.1	1328.8	1354.5	1372.0	1301.9	1175.8	1082.4	1078.9	1083.6	1143.1	1268.1
37.5°	1396.5	1417.5	1438.5	1482.9	1422.2	1287.9	1165.3	1119.8	1111.6	1177.0	1275.1
40°	1482.9	1477.1	1539.0	1591.5	1589.2	1445.5	1280.9	1192.2	1180.5	1230.7	1321.8
42.5°	1555.3	1549.5	1618.4	1704.8	1714.1	1597.3	1412.9	1294.9	1284.4	1313.6	1379.0
45°	1649.9	1654.6	1736.3	1839.0	1872.9	1798.2	1591.5	1442.0	1436.2	1426.9	1487.6
47.5°	1734.0	1759.6	1829.7	1951.1	2073.7	2006.0	1801.7	1656.9	1616.0	1595.0	1655.7
50°	1792.3	1815.7	1900.9	2030.5	2254.7	2297.9	2037.5	1885.8	1886.9	1835.5	1868.2
52.5°	1792.3	1791.2	1860.1	2030.5	2380.8	2602.7	2352.8	2174.2	2183.5	2129.8	2132.1
55°	1619.5	1616.0	1700.1	1881.1	2366.8	2895.8	2830.4	2539.6	2516.3	2412.4	2422.9
57.5°	1304.3	1312.4	1376.7	1593.8	2184.7	3032.4	3399.0	2950.6	2871.2	2656.4	2656.4
60°	951.6	944.6	992.5	1144.3	1750.3	2981.0	3866.1	3435.2	3310.3	2858.4	2828.0
62.5°	723.9	722.8	735.6	787.0	1110.4	2599.2	4066.9	4051.7	3848.6	3056.9	3013.7
65°	585.0	587.3	604.8	641.0	678.4	1772.5	3960.7	4787.4	4601.7	3352.3	3211.0
67.5°	477.6	483.4	504.4	582.7	574.5	917.8	3373.3	5208.9	5243.9	3803.0	3476.1
70°	367.8	377.2	401.7	512.6	553.5	610.7	2338.8	4998.7	5092.1	4083.3	3316.1
72.5°	249.9	248.7	301.3	415.7	559.3	559.3	1301.9	4026.1	4114.8	3764.5	2880.6
75°	135.4	143.6	199.7	314.1	512.6	540.6	741.5	2946.0	3070.9	2927.3	2227.9
77.5°	73.6	74.7	110.9	205.5	426.2	516.1	495.1	2003.7	2052.7	1765.5	1220.2
80°	38.5	39.7	58.4	134.3	294.2	478.7	412.2	1194.5	1147.8	677.2	402.8
82.5°	17.5	18.7	29.2	84.1	188.0	377.2	356.1	576.8	532.4	189.2	122.6
85°	7.0	7.0	12.8	50.2	109.8	185.7	304.8	289.6	241.7	57.2	60.7
87.5°	2.3	2.3	3.5	19.9	44.4	110.9	162.3	153.0	105.1	21.0	32.7
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°	1188.7	1188.7	1188.7	1188.7	1188.7	1188.7	1188.7	1188.7	1188.7	1188.7	1188.7
2.5°	1179.3	1192.2	1188.7	1186.3	1164.1	1161.8	1159.5	1138.5	1145.5	1127.9	1139.6
5°	1186.3	1193.3	1174.7	1139.6	1108.1	1073.1	1046.2	1027.5	993.7	980.8	978.5
7.5°	1179.3	1179.3	1140.8	1084.7	1022.9	965.6	893.3	841.9	803.3	774.2	784.7
10°	1170.0	1156.0	1116.3	1017.0	904.9	818.5	714.6	638.7	581.5	562.8	551.1
12.5°	1170.0	1145.5	1056.7	921.3	776.5	645.7	521.9	422.7	367.8	335.1	330.4
15°	1159.5	1123.3	1013.5	831.4	651.5	474.1	332.8	247.5	200.8	188.0	183.3
17.5°	1161.8	1118.6	949.3	725.1	505.6	315.3	203.2	156.5	144.8	139.0	140.1
20°	1166.5	1118.6	892.1	621.2	364.3	196.2	140.1	131.9	126.1	123.8	124.9
22.5°	1181.7	1096.4	833.7	514.9	246.4	141.3	123.8	115.6	110.9	107.4	106.3
25°	1184.0	1092.9	777.7	409.8	169.3	119.1	108.6	99.3	93.4	88.7	87.6
27.5°	1180.5	1077.7	699.4	304.8	127.3	106.3	92.2	82.9	74.7	71.2	70.1
30°	1193.3	1049.7	632.9	219.5	107.4	92.2	78.2	67.7	60.7	56.0	56.0
32.5°	1194.5	1025.2	559.3	156.5	98.1	81.7	66.6	54.9	47.9	45.5	45.5
35°	1195.7	1003.0	477.6	119.1	87.6	70.1	54.9	45.5	40.9	37.4	37.4
37.5°	1199.2	986.7	402.8	100.4	78.2	59.6	45.5	37.4	32.7	31.5	31.5
40°	1206.2	964.5	324.6	88.7	67.7	50.2	38.5	31.5	26.9	25.7	24.5
42.5°	1224.9	958.6	259.2	79.4	60.7	42.0	31.5	25.7	22.2	19.9	18.7
45°	1301.9	973.8	200.8	73.6	51.4	35.0	26.9	21.0	16.3	15.2	14.0
47.5°	1428.0	1024.0	158.8	65.4	43.2	29.2	22.2	16.3	12.8	11.7	10.5
50°	1619.5	1138.5	129.6	58.4	36.2	24.5	17.5	12.8	9.3	8.2	8.2
52.5°	1870.6	1292.6	112.1	51.4	29.2	21.0	14.0	9.3	7.0	5.8	5.8
55°	2127.5	1474.7	105.1	44.4	24.5	17.5	10.5	7.0	4.7	3.5	3.5
57.5°	2363.3	1592.7	101.6	36.2	21.0	12.8	8.2	4.7	2.3	1.2	1.2
60°	2510.4	1679.1	91.1	29.2	16.3	10.5	5.8	2.3	1.2	0.0	0.0
62.5°	2704.3	1766.7	74.7	22.2	11.7	7.0	3.5	1.2	0.0	0.0	0.0
65°	2960.0	1864.7	58.4	17.5	9.3	4.7	2.3	1.2	0.0	0.0	0.0
67.5°	3082.6	1813.4	39.7	12.8	5.8	2.3	1.2	0.0	0.0	0.0	0.0
70°	2837.4	1527.3	28.0	9.3	3.5	1.2	1.2	0.0	0.0	0.0	0.0
72.5°	2385.5	1196.8	21.0	5.8	2.3	1.2	0.0	0.0	0.0	0.0	0.0
75°	1758.5	748.5	16.3	4.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	933.0	279.1	11.7	3.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	275.6	81.7	8.2	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	91.1	24.5	4.7	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	46.7	9.3	2.3	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	26.9	3.5	2.3	2.3	1.2	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)