

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: P677179

Luminaire Tested: **CCW-SA-2C-827-U-SL4-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677179  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2C-827-U-SL4-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/  
SL4 distribution lens and House Side Shield  
Light Source: (32) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

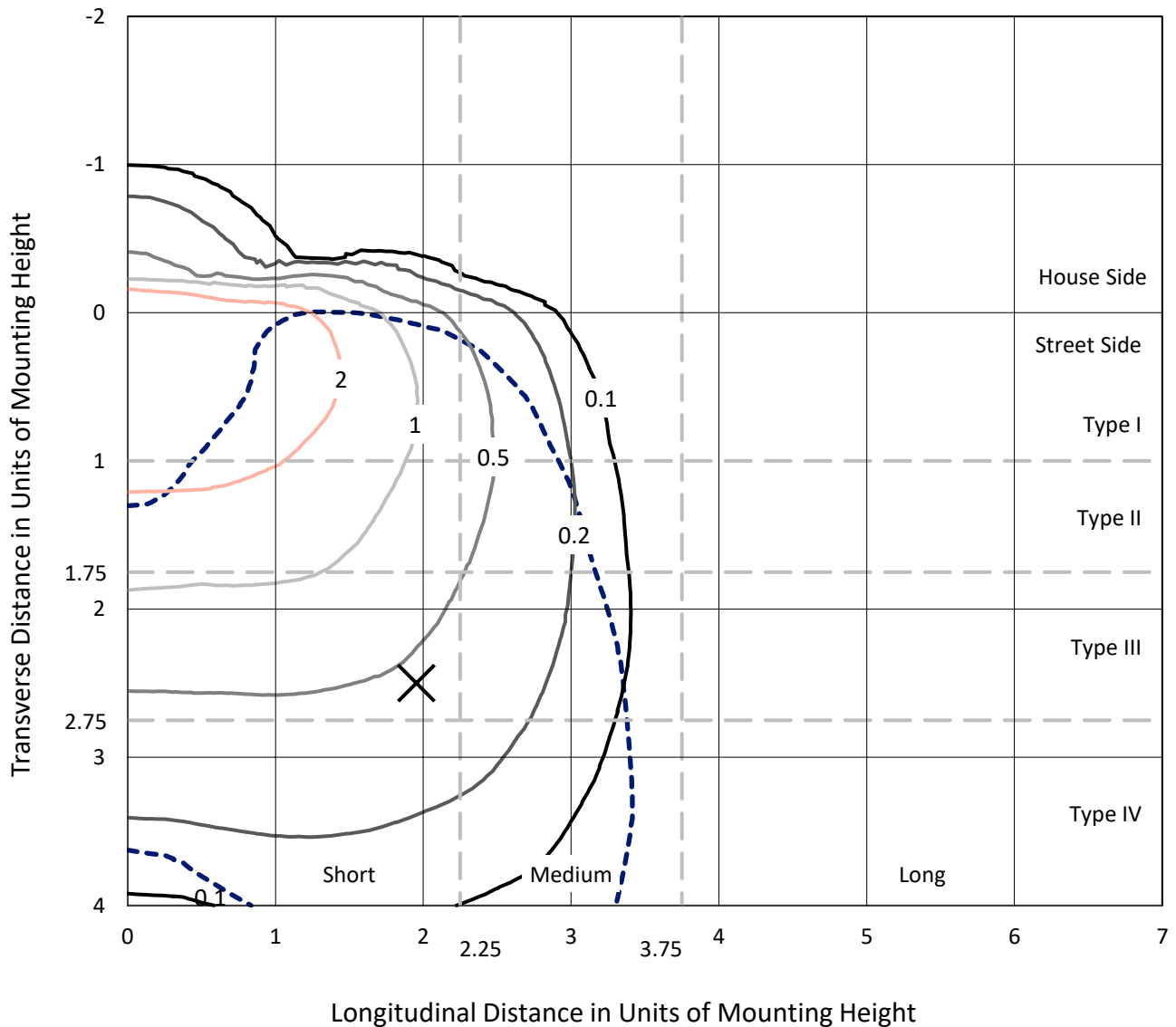
Lumens per Lamp: N/A  
Luminaire Lumens: 5490.1 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 62.1  
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

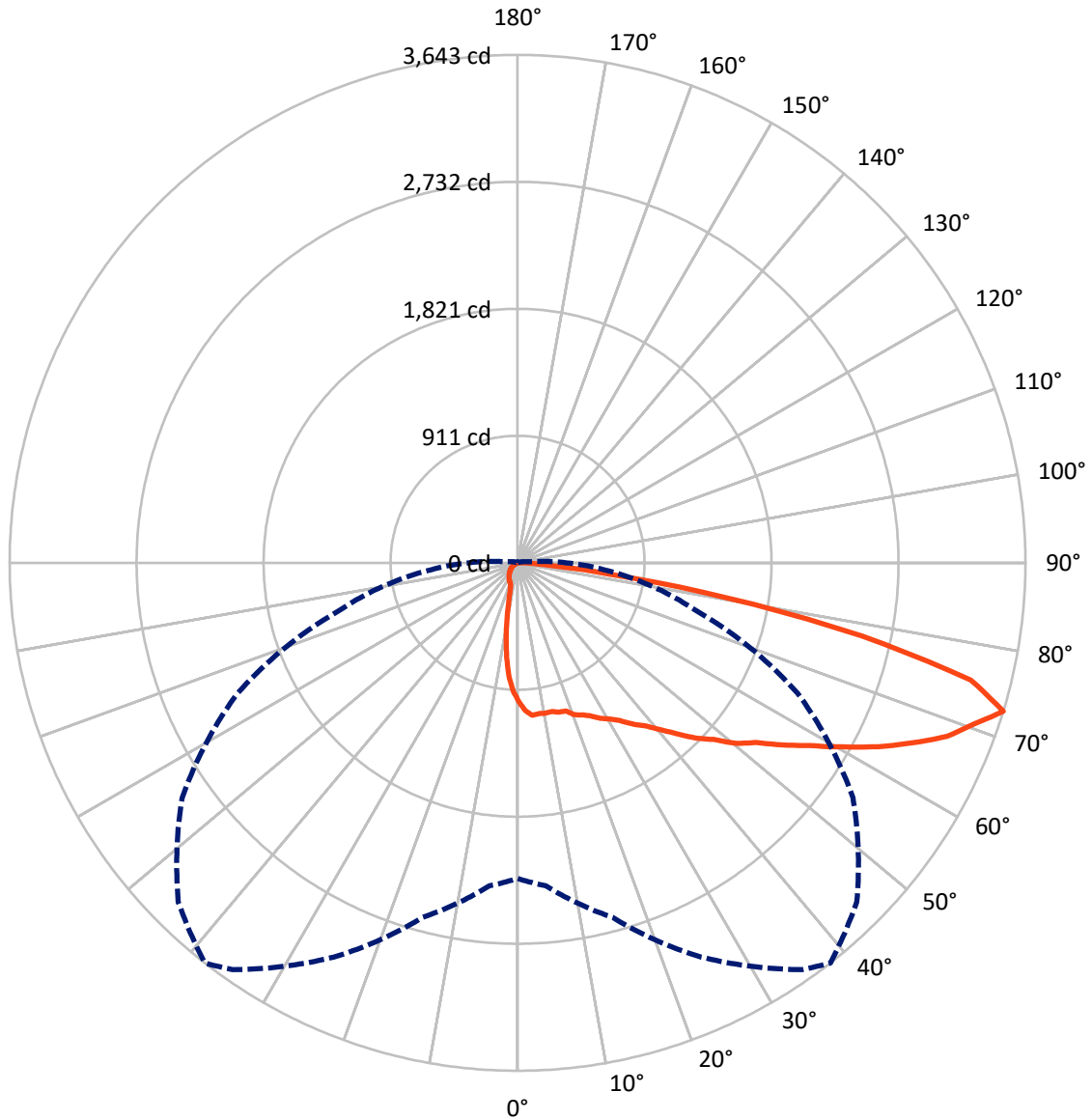
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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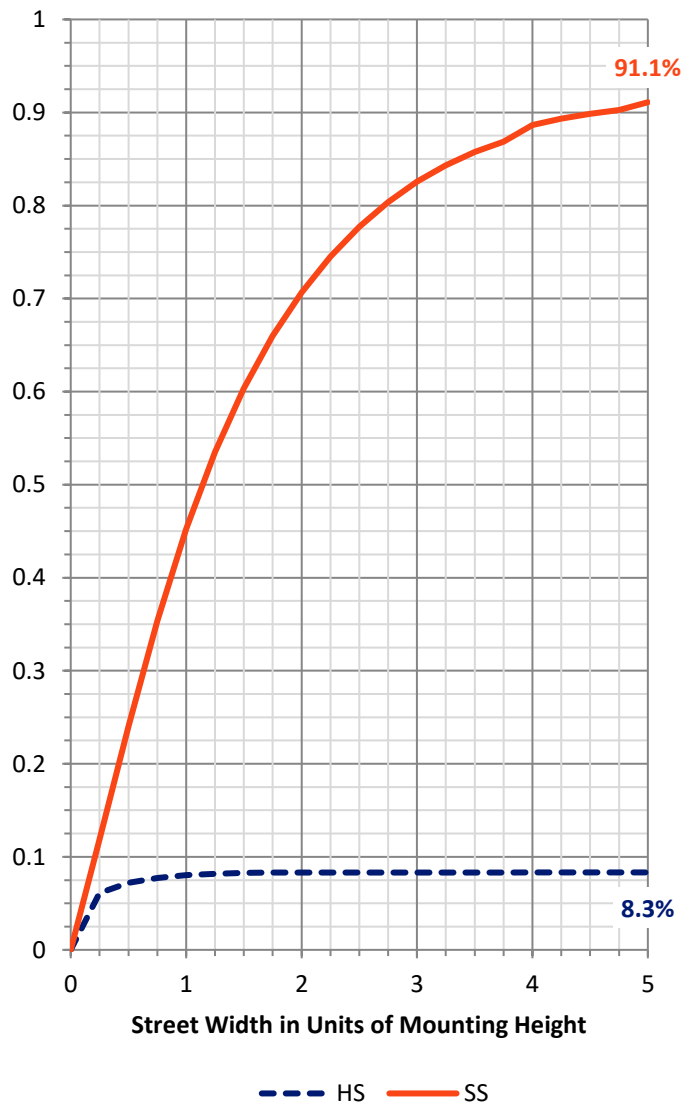
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	459.8	0.0	459.8
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	5030.3	0.0	5030.3
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	5490.1	0.0	5490.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.9	1.6
10°-20°	212.8	3.9
20°-30°	341.1	6.2
30°-40°	515.0	9.4
40°-50°	783.8	14.3
50°-60°	1103.5	20.1
60°-70°	1347.9	24.6
70°-80°	978.7	17.8
80°-90°	120.5	2.2
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°	5490.1	100.0
0°-180°	5490.1	100.0

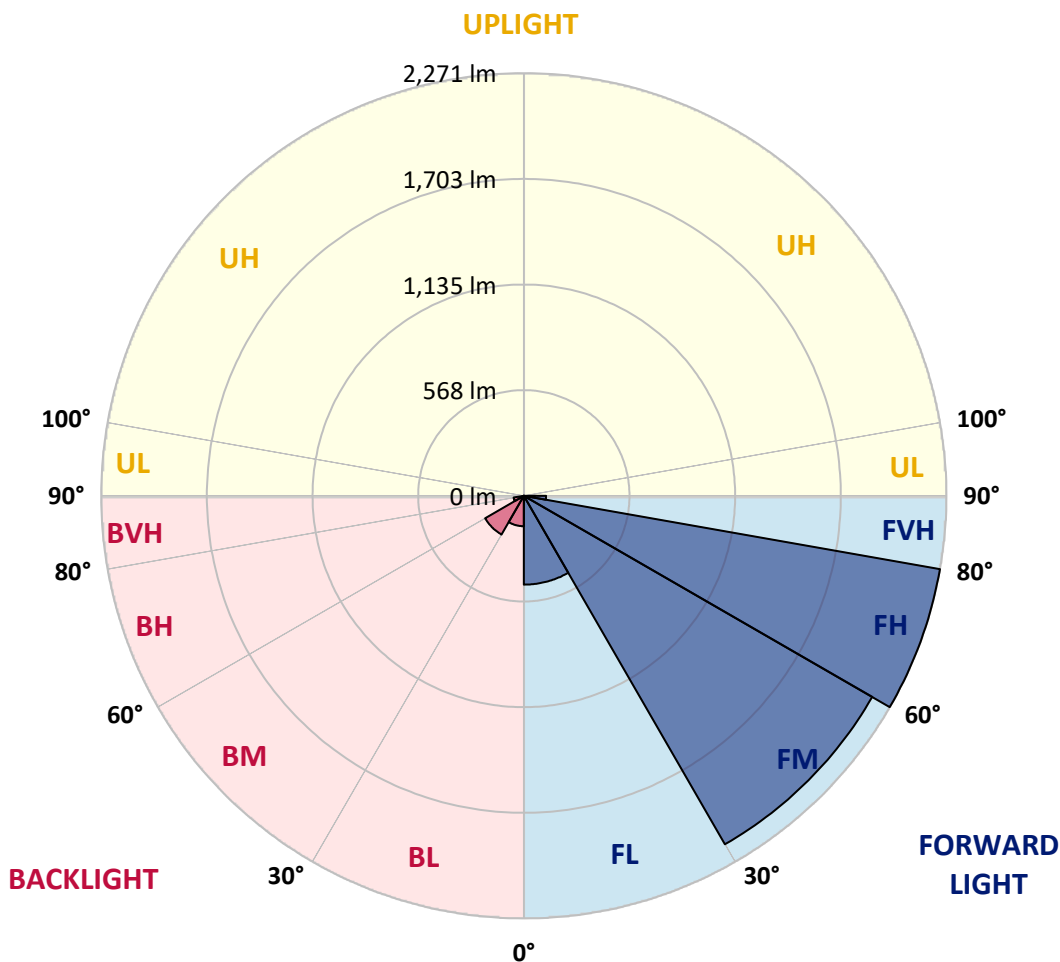


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	477.5	8.7			
FM (30°-60°)	2162.0	39.4			
FH (60°-80°)	2270.9	41.4			G2/5000
FVH (80°-90°)	119.9	2.2			G2/225
BL (0°-30°)	163.2	3.0	B1/500		
BM (30°-60°)	240.2	4.4	B1/1000		
BH (60°-80°)	55.8	1.0	B0/110		G0/110
BVH (80°-90°)	0.6	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°	35°	38°	45°	55°	65°	75°	85°
0°	992.8	992.8	992.8	992.8	992.8	992.8	992.8	992.8	992.8	992.8	992.8
2.5°	1090.7	1090.7	1101.0	1090.7	1086.8	1062.4	1063.7	1050.8	1037.9	1019.9	1003.1
5°	1103.6	1112.6	1119.0	1110.0	1095.8	1098.4	1107.4	1083.0	1048.2	1026.3	989.0
7.5°	1098.4	1117.7	1112.6	1107.4	1098.4	1092.0	1079.1	1068.8	1052.1	1031.5	987.7
10°	1094.6	1101.0	1102.3	1098.4	1079.1	1097.1	1083.0	1066.2	1045.6	1021.2	967.1
12.5°	1080.4	1080.4	1092.0	1083.0	1085.5	1094.6	1088.1	1084.3	1062.4	1041.8	994.1
15°	1064.9	1070.1	1088.1	1102.3	1115.2	1111.3	1107.4	1095.8	1076.5	1053.4	1003.1
17.5°	1068.8	1071.4	1099.7	1125.5	1119.0	1116.4	1137.1	1112.6	1093.3	1067.5	1010.9
20°	1083.0	1090.7	1122.9	1156.4	1162.8	1162.8	1155.1	1140.9	1113.9	1079.1	1025.0
22.5°	1097.1	1099.7	1152.5	1195.0	1201.4	1184.7	1191.1	1149.9	1124.2	1104.9	1039.2
25°	1151.2	1146.1	1202.7	1236.2	1232.3	1215.6	1209.2	1173.1	1162.8	1128.0	1070.1
27.5°	1224.6	1202.7	1258.1	1278.7	1258.1	1263.2	1245.2	1206.6	1184.7	1164.1	1084.3
30°	1269.7	1282.6	1312.2	1332.8	1298.0	1299.3	1290.3	1247.8	1214.3	1219.5	1131.9
32.5°	1339.2	1348.2	1370.1	1379.1	1352.1	1349.5	1340.5	1307.0	1282.6	1277.4	1196.3
35°	1413.9	1430.7	1431.9	1434.5	1410.0	1420.3	1407.5	1359.8	1372.7	1381.7	1273.6
37.5°	1487.3	1471.9	1497.6	1509.2	1482.2	1482.2	1486.0	1453.8	1477.0	1504.1	1383.0
40°	1515.6	1522.1	1567.1	1558.1	1590.3	1571.0	1585.2	1577.5	1596.8	1658.6	1537.5
42.5°	1545.3	1553.0	1613.5	1630.2	1668.9	1675.3	1695.9	1697.2	1753.9	1855.6	1685.6
45°	1601.9	1589.0	1671.5	1712.7	1775.8	1793.8	1818.3	1838.9	1927.7	2047.5	1854.3
47.5°	1653.4	1635.4	1729.4	1811.8	1889.1	1892.9	1959.9	1981.8	2087.4	2223.9	2021.7
50°	1725.5	1732.0	1771.9	1913.5	1992.1	2037.2	2083.5	2155.6	2272.8	2418.3	2142.8
52.5°	1800.2	1793.8	1860.7	1999.8	2123.4	2140.2	2244.5	2325.6	2453.1	2562.6	2196.8
55°	1891.7	1899.4	1925.1	2108.0	2265.1	2305.0	2422.2	2507.2	2646.3	2624.4	2214.9
57.5°	1983.1	1975.4	2033.3	2229.0	2442.8	2472.4	2628.2	2678.4	2772.5	2665.6	2169.8
60°	2073.2	2087.4	2111.9	2365.5	2637.2	2681.0	2804.6	2830.4	2851.0	2684.9	2135.0
62.5°	2176.2	2142.8	2218.7	2509.8	2812.4	2903.8	3001.7	2899.9	2881.9	2650.1	2055.2
65°	2227.7	2238.0	2337.2	2674.6	3045.4	3112.4	3125.3	2993.9	2901.2	2572.9	1980.5
67.5°	2307.6	2321.8	2447.9	2843.3	3285.0	3322.3	3275.9	3078.9	2884.5	2472.4	1711.4
70°	2317.9	2352.7	2596.0	3019.7	3435.6	3467.8	3431.8	3135.6	2749.3	2077.1	1267.1
72.5°	2263.8	2325.6	2632.1	3120.1	3561.8	3642.9	3440.8	2936.0	2216.2	1325.1	649.0
75°	1710.1	1761.6	2409.3	2970.8	3337.8	3357.1	3021.0	2240.6	1262.0	452.0	166.1
77.5°	885.9	974.8	1608.4	2270.2	2543.2	2522.6	2102.8	1319.9	434.0	118.5	67.0
80°	508.6	530.5	703.1	1274.8	1599.3	1520.8	1162.8	569.2	190.6	59.2	43.8
82.5°	251.1	282.0	378.6	570.5	799.7	658.0	436.5	341.2	106.9	32.2	38.6
85°	54.1	56.7	193.2	273.0	324.5	213.8	149.4	287.2	38.6	19.3	37.3
87.5°	38.6	37.3	54.1	122.3	90.1	55.4	88.9	150.7	9.0	9.0	7.7
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°	992.8	992.8	992.8	992.8	992.8	992.8	992.8	992.8	992.8	992.8	992.8
2.5°	992.8	981.2	968.4	943.9	937.5	933.6	911.7	910.4	906.6	897.5	893.7
5°	965.8	946.5	922.0	896.2	875.6	838.3	793.2	770.1	741.7	743.0	734.0
7.5°	961.9	925.9	891.1	837.0	771.3	701.8	632.3	587.2	555.0	535.7	539.6
10°	943.9	916.9	860.2	759.8	654.2	548.6	459.7	392.8	354.1	324.5	333.5
12.5°	951.6	898.8	819.0	685.1	534.4	404.3	293.6	229.2	200.9	190.6	193.2
15°	946.5	898.8	794.5	603.9	419.8	274.3	190.6	170.0	164.8	164.8	162.3
17.5°	961.9	909.1	753.3	524.1	301.3	182.9	163.5	159.7	155.8	155.8	155.8
20°	983.8	914.3	725.0	435.2	212.5	161.0	153.2	150.7	149.4	149.4	148.1
22.5°	985.1	909.1	672.2	337.4	163.5	152.0	145.5	144.2	144.2	141.6	141.6
25°	992.8	914.3	615.5	253.7	152.0	142.9	137.8	136.5	137.8	136.5	135.2
27.5°	1012.1	923.3	558.9	185.4	142.9	135.2	131.3	130.1	130.1	130.1	127.5
30°	1036.6	923.3	495.8	153.2	135.2	127.5	123.6	122.3	121.0	121.0	121.0
32.5°	1088.1	952.9	418.5	136.5	124.9	118.5	114.6	114.6	113.3	113.3	112.0
35°	1152.5	973.5	340.0	126.2	115.9	109.5	105.6	105.6	104.3	104.3	103.0
37.5°	1232.3	1025.0	260.1	118.5	106.9	100.4	96.6	96.6	96.6	95.3	95.3
40°	1345.7	1077.8	193.2	108.2	97.9	91.4	88.9	87.6	86.3	86.3	83.7
42.5°	1466.7	1158.9	144.2	100.4	90.1	85.0	81.1	77.3	77.3	73.4	73.4
45°	1598.1	1229.8	117.2	91.4	82.4	76.0	72.1	69.5	65.7	63.1	63.1
47.5°	1726.8	1273.6	103.0	81.1	74.7	69.5	65.7	60.5	55.4	54.1	52.8
50°	1831.1	1286.4	91.4	73.4	68.2	63.1	57.9	51.5	46.4	43.8	42.5
52.5°	1831.1	1215.6	82.4	65.7	61.8	56.7	50.2	42.5	36.1	33.5	32.2
55°	1831.1	1103.6	73.4	60.5	55.4	51.5	42.5	34.8	28.3	24.5	23.2
57.5°	1804.1	968.4	65.7	54.1	48.9	43.8	36.1	27.0	20.6	16.7	16.7
60°	1729.4	826.7	56.7	47.6	42.5	36.1	28.3	19.3	12.9	9.0	9.0
62.5°	1634.1	658.0	48.9	39.9	34.8	29.6	21.9	12.9	5.2	2.6	2.6
65°	1468.0	485.5	42.5	33.5	27.0	21.9	14.2	5.2	0.0	0.0	0.0
67.5°	1211.7	324.5	33.5	27.0	23.2	15.5	9.0	1.3	0.0	0.0	0.0
70°	852.5	184.1	25.8	19.3	16.7	10.3	2.6	0.0	0.0	0.0	0.0
72.5°	350.3	81.1	18.0	14.2	11.6	5.2	0.0	0.0	0.0	0.0	0.0
75°	95.3	36.1	11.6	7.7	6.4	1.3	0.0	0.0	0.0	0.0	0.0
77.5°	55.4	24.5	5.2	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	43.8	11.6	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	43.8	6.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	37.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.2	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)