

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: P675670

Luminaire Tested: **CCW-SA-1F-727-U-SL4**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675670
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-727-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/
SL4 distribution lens
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

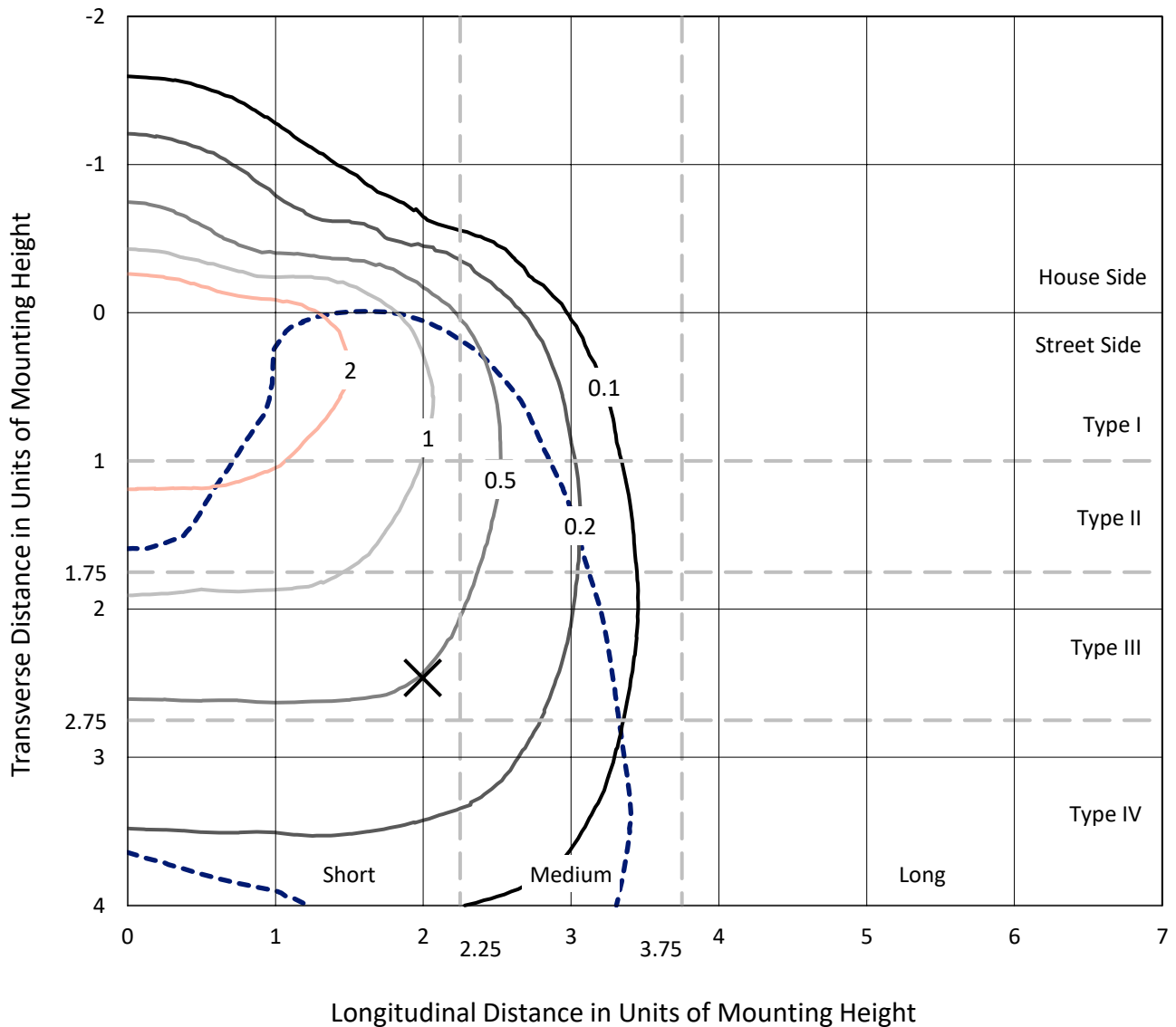
Lumens per Lamp: N/A
Luminaire Lumens: 6144.4 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

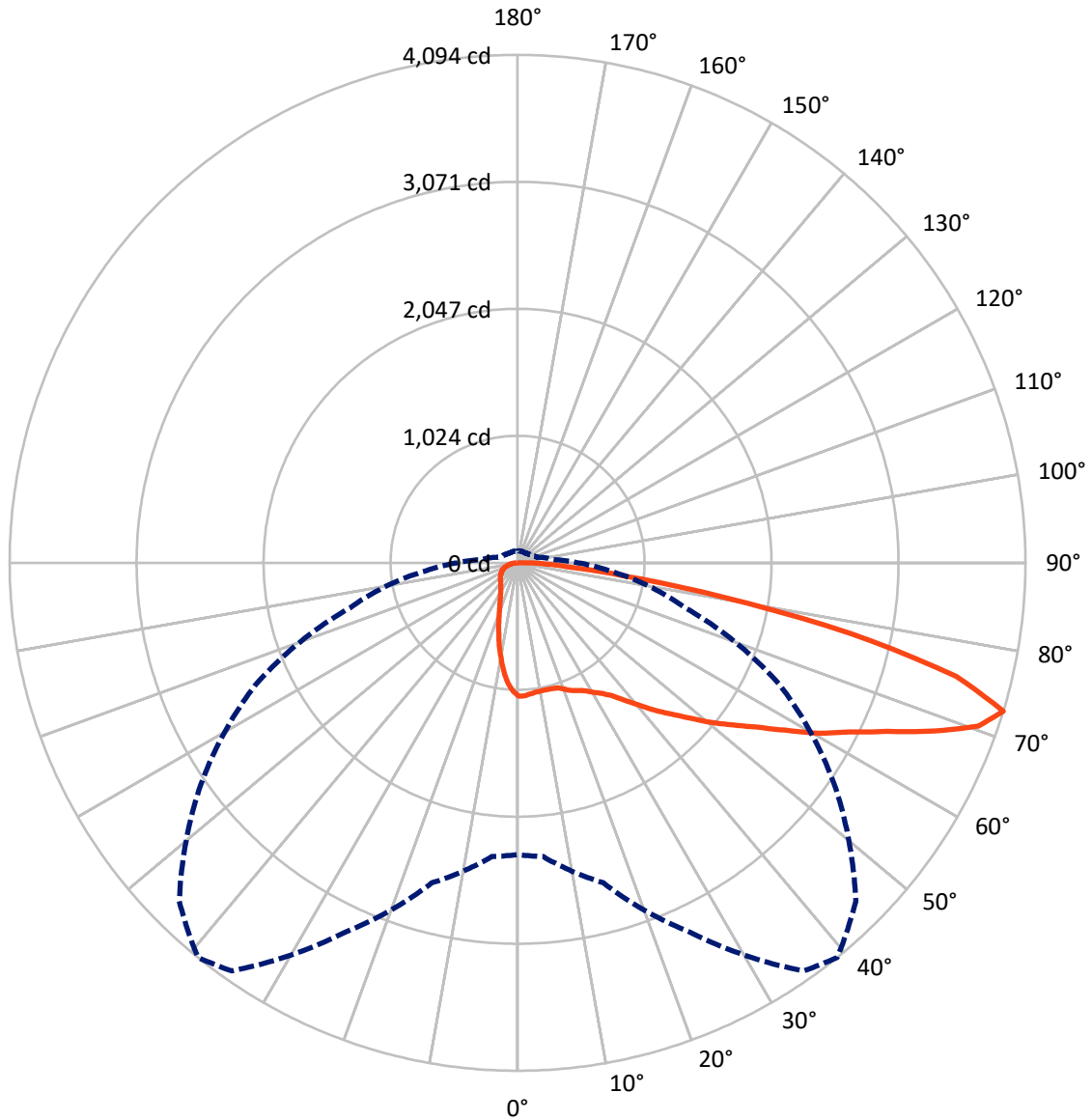
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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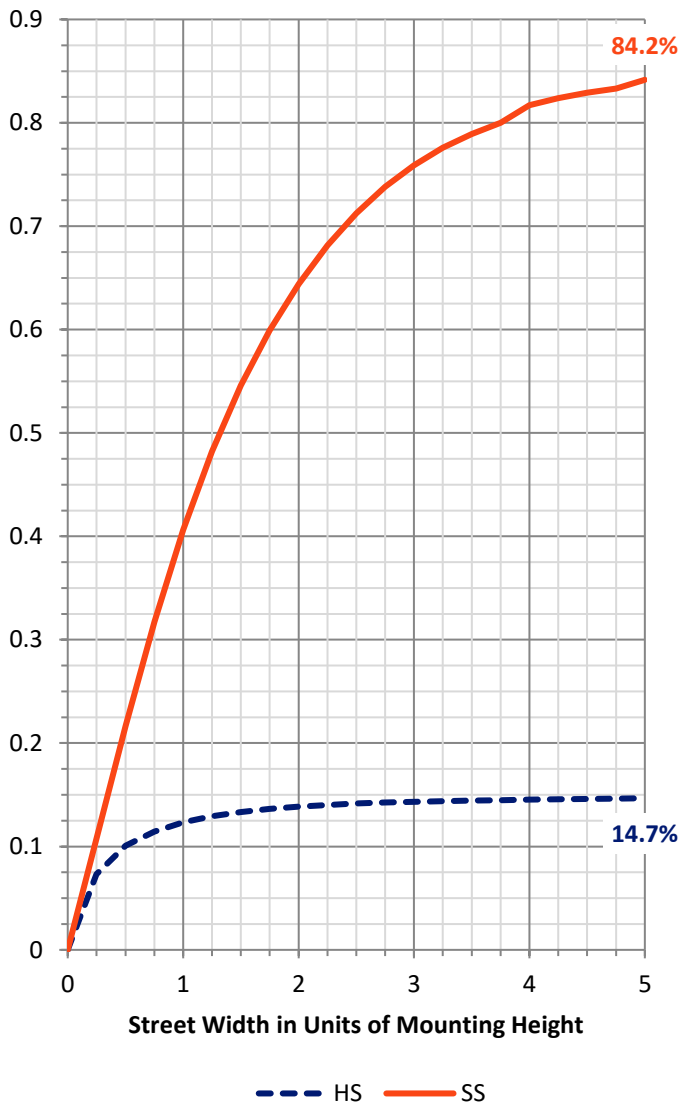
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	913.2	0.0	913.2
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	5231.2	0.0	5231.2
	% Fixture	85.1	0.0	85.1
Total	Lumens	6144.4	0.0	6144.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.0	1.5
10°-20°	242.6	3.9
20°-30°	369.5	6.0
30°-40°	540.6	8.8
40°-50°	827.6	13.5
50°-60°	1213.8	19.8
60°-70°	1548.1	25.2
70°-80°	1118.5	18.2
80°-90°	188.7	3.1
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°	6144.4	100.0
0°-180°	6144.4	100.0

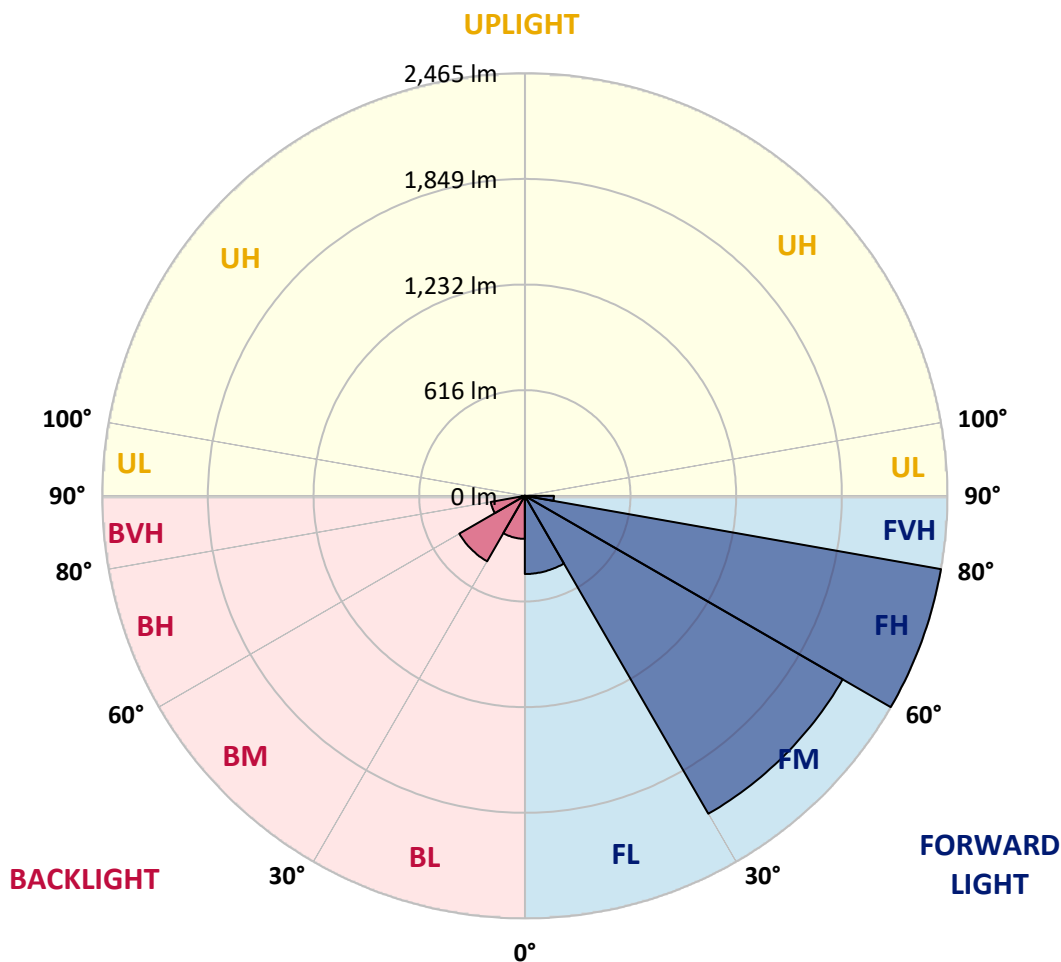


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	456.0	7.4			
FM (30°-60°)	2140.9	34.8			
FH (60°-80°)	2464.8	40.1			G2/5000
FVH (80°-90°)	169.6	2.8			G2/225
BL (0°-30°)	251.1	4.1	B1/500		
BM (30°-60°)	441.2	7.2	B1/1000		
BH (60°-80°)	201.8	3.3	B1/500		G1/500
BVH (80°-90°)	19.1	0.3			G1/100
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°	39°	45°	55°	65°	75°	85°
0°	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5
2.5°	1091.7	1094.0	1089.4	1084.8	1082.5	1073.2	1082.5	1077.9	1073.2	1073.2	1073.2
5°	1077.9	1080.2	1080.2	1075.5	1077.9	1061.7	1059.4	1061.7	1054.8	1050.2	1047.8
7.5°	1057.1	1061.7	1070.9	1068.6	1059.4	1052.5	1054.8	1052.5	1040.9	1034.0	1015.5
10°	1040.9	1045.5	1050.2	1054.8	1052.5	1050.2	1047.8	1038.6	1036.3	1020.1	1001.7
12.5°	1024.8	1024.8	1027.1	1045.5	1047.8	1047.8	1034.0	1034.0	1027.1	1024.8	997.1
15°	1008.6	1015.5	1034.0	1038.6	1047.8	1052.5	1045.5	1045.5	1034.0	1017.8	997.1
17.5°	1013.2	1024.8	1043.2	1054.8	1059.4	1059.4	1068.6	1061.7	1045.5	1036.3	1015.5
20°	1036.3	1038.6	1061.7	1082.5	1087.1	1087.1	1077.9	1070.9	1059.4	1043.2	1015.5
22.5°	1050.2	1066.3	1094.0	1105.5	1119.4	1119.4	1107.9	1091.7	1075.5	1059.4	1029.4
25°	1110.2	1112.5	1124.0	1142.5	1149.4	1140.2	1128.6	1110.2	1089.4	1073.2	1045.5
27.5°	1151.7	1163.2	1177.1	1186.3	1174.8	1167.9	1158.6	1137.9	1121.7	1107.9	1068.6
30°	1227.9	1214.0	1223.3	1227.9	1207.1	1211.7	1186.3	1167.9	1149.4	1149.4	1105.5
32.5°	1274.0	1285.6	1276.3	1274.0	1257.9	1255.6	1239.4	1218.6	1207.1	1220.9	1160.9
35°	1354.8	1347.9	1347.9	1345.6	1327.1	1315.6	1315.6	1278.6	1290.2	1320.2	1246.3
37.5°	1396.4	1394.1	1407.9	1419.4	1401.0	1407.9	1401.0	1384.8	1389.4	1442.5	1352.5
40°	1437.9	1454.1	1481.8	1486.4	1497.9	1507.1	1502.5	1500.2	1518.7	1604.1	1495.6
42.5°	1477.1	1491.0	1532.5	1569.5	1597.2	1627.2	1629.5	1629.5	1689.5	1811.8	1668.7
45°	1527.9	1539.5	1597.2	1671.0	1717.2	1737.9	1756.4	1777.2	1858.0	2003.4	1853.3
47.5°	1597.2	1606.4	1675.6	1768.0	1858.0	1869.5	1906.4	1929.5	2051.8	2199.6	2042.6
50°	1696.4	1689.5	1744.9	1878.7	1966.4	2021.8	2074.9	2116.5	2236.5	2398.0	2190.3
52.5°	1777.2	1777.2	1818.7	1996.4	2116.5	2169.5	2224.9	2282.6	2421.1	2596.5	2310.3
55°	1915.7	1901.8	1927.2	2111.8	2285.0	2335.7	2441.9	2490.4	2624.2	2744.2	2411.9
57.5°	2010.3	2017.2	2047.2	2264.2	2483.4	2545.8	2651.9	2686.5	2804.3	2898.9	2485.7
60°	2134.9	2111.8	2176.5	2432.7	2702.7	2790.4	2878.1	2898.9	2986.6	2998.1	2520.4
62.5°	2254.9	2250.3	2305.7	2601.2	2938.1	3000.4	3090.5	3113.5	3150.5	3076.6	2471.9
65°	2328.8	2358.8	2462.7	2785.8	3205.9	3275.1	3365.1	3318.9	3277.4	3007.4	2234.2
67.5°	2430.4	2444.2	2603.5	2986.6	3515.1	3619.0	3697.5	3515.1	3205.9	2723.5	1881.0
70°	2453.4	2490.4	2698.1	3196.6	3833.6	3939.8	3944.4	3448.2	2945.0	2215.7	1364.0
72.5°	2351.9	2377.3	2670.4	3284.3	4016.0	4094.4	3856.7	3118.2	2333.4	1396.4	743.2
75°	1978.0	2049.5	2324.2	3014.3	3681.3	3651.3	3268.2	2379.6	1401.0	618.6	313.9
77.5°	1377.9	1380.2	1666.4	2192.6	2755.8	2748.9	2331.1	1380.2	600.1	249.3	184.6
80°	611.6	655.5	828.6	1181.7	1673.3	1673.3	1359.4	685.5	300.0	161.6	126.9
82.5°	360.1	373.9	443.1	551.6	814.7	858.6	650.9	457.0	205.4	101.6	78.5
85°	265.4	288.5	330.0	332.4	385.4	392.4	360.1	397.0	140.8	55.4	64.6
87.5°	198.5	212.3	263.1	219.3	205.4	193.9	221.6	406.2	53.1	27.7	20.8
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5	1075.5
2.5°	1064.0	1064.0	1059.4	1050.2	1050.2	1031.7	1036.3	1040.9	1029.4	1029.4	1031.7
5°	1047.8	1038.6	1027.1	1013.2	1004.0	978.6	974.0	957.8	955.5	950.9	944.0
7.5°	1015.5	1001.7	980.9	960.1	930.1	907.1	879.4	856.3	847.0	840.1	837.8
10°	985.5	983.2	948.6	907.1	860.9	817.0	775.5	745.5	727.0	715.5	713.2
12.5°	985.5	967.1	918.6	860.9	794.0	729.3	676.3	634.7	609.3	590.9	583.9
15°	980.9	962.4	897.8	810.1	734.0	646.2	572.4	528.5	491.6	473.1	475.5
17.5°	985.5	957.8	867.8	773.2	667.0	572.4	484.7	431.6	394.7	380.8	378.5
20°	987.8	953.2	844.7	722.4	597.8	491.6	408.5	357.7	330.0	320.8	320.8
22.5°	983.2	939.4	810.1	662.4	537.8	424.7	355.4	311.6	293.1	281.6	286.2
25°	1004.0	937.1	777.8	611.6	468.5	369.3	316.2	283.9	272.3	265.4	267.7
27.5°	1008.6	937.1	752.4	553.9	408.5	327.7	286.2	265.4	256.2	251.6	249.3
30°	1027.1	941.7	722.4	496.2	360.1	295.4	263.1	251.6	244.7	242.3	242.3
32.5°	1077.9	955.5	690.1	447.8	318.5	267.7	247.0	237.7	233.1	230.8	233.1
35°	1137.9	992.5	655.5	397.0	288.5	249.3	233.1	226.2	223.9	223.9	223.9
37.5°	1230.2	1047.8	625.5	355.4	263.1	230.8	219.3	217.0	214.6	217.0	217.0
40°	1336.4	1107.9	597.8	323.1	244.7	219.3	207.7	207.7	205.4	207.7	210.0
42.5°	1458.7	1181.7	570.1	290.8	228.5	210.0	200.8	198.5	196.2	200.8	203.1
45°	1627.2	1283.3	551.6	272.3	217.0	200.8	191.6	191.6	189.3	189.3	193.9
47.5°	1768.0	1380.2	551.6	253.9	210.0	193.9	184.6	184.6	180.0	182.3	182.3
50°	1885.7	1463.3	563.2	249.3	200.8	187.0	180.0	175.4	173.1	173.1	173.1
52.5°	1964.1	1514.1	572.4	244.7	196.2	177.7	173.1	170.8	166.2	163.9	166.2
55°	2042.6	1548.7	574.7	244.7	189.3	168.5	163.9	163.9	159.3	156.9	156.9
57.5°	2072.6	1534.8	542.4	240.0	184.6	161.6	156.9	154.6	152.3	150.0	150.0
60°	2058.8	1484.1	470.8	228.5	180.0	156.9	147.7	147.7	147.7	143.1	145.4
62.5°	1964.1	1311.0	378.5	210.0	173.1	147.7	138.5	143.1	143.1	140.8	140.8
65°	1714.9	1082.5	307.0	193.9	163.9	140.8	131.6	138.5	140.8	138.5	136.2
67.5°	1371.0	833.2	253.9	175.4	152.3	129.2	122.3	129.2	131.6	129.2	129.2
70°	941.7	537.8	205.4	156.9	136.2	117.7	110.8	115.4	115.4	117.7	117.7
72.5°	487.0	290.8	168.5	133.9	117.7	106.2	99.2	99.2	96.9	96.9	96.9
75°	242.3	198.5	140.8	113.1	99.2	90.0	85.4	80.8	80.8	80.8	80.8
77.5°	168.5	152.3	115.4	90.0	80.8	73.9	73.9	66.9	66.9	66.9	66.9
80°	126.9	120.0	87.7	69.2	62.3	57.7	57.7	55.4	55.4	53.1	53.1
82.5°	90.0	96.9	66.9	50.8	46.2	43.9	43.9	41.5	41.5	36.9	36.9
85°	71.5	80.8	50.8	36.9	34.6	30.0	30.0	27.7	27.7	25.4	23.1
87.5°	20.8	43.9	20.8	13.8	13.8	13.8	13.8	11.5	11.5	9.2	9.2
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)