

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: P675669

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

Issue Date: 04/25/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P675669  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1E-727-U-SL4  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/  
SL4 distribution lens  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

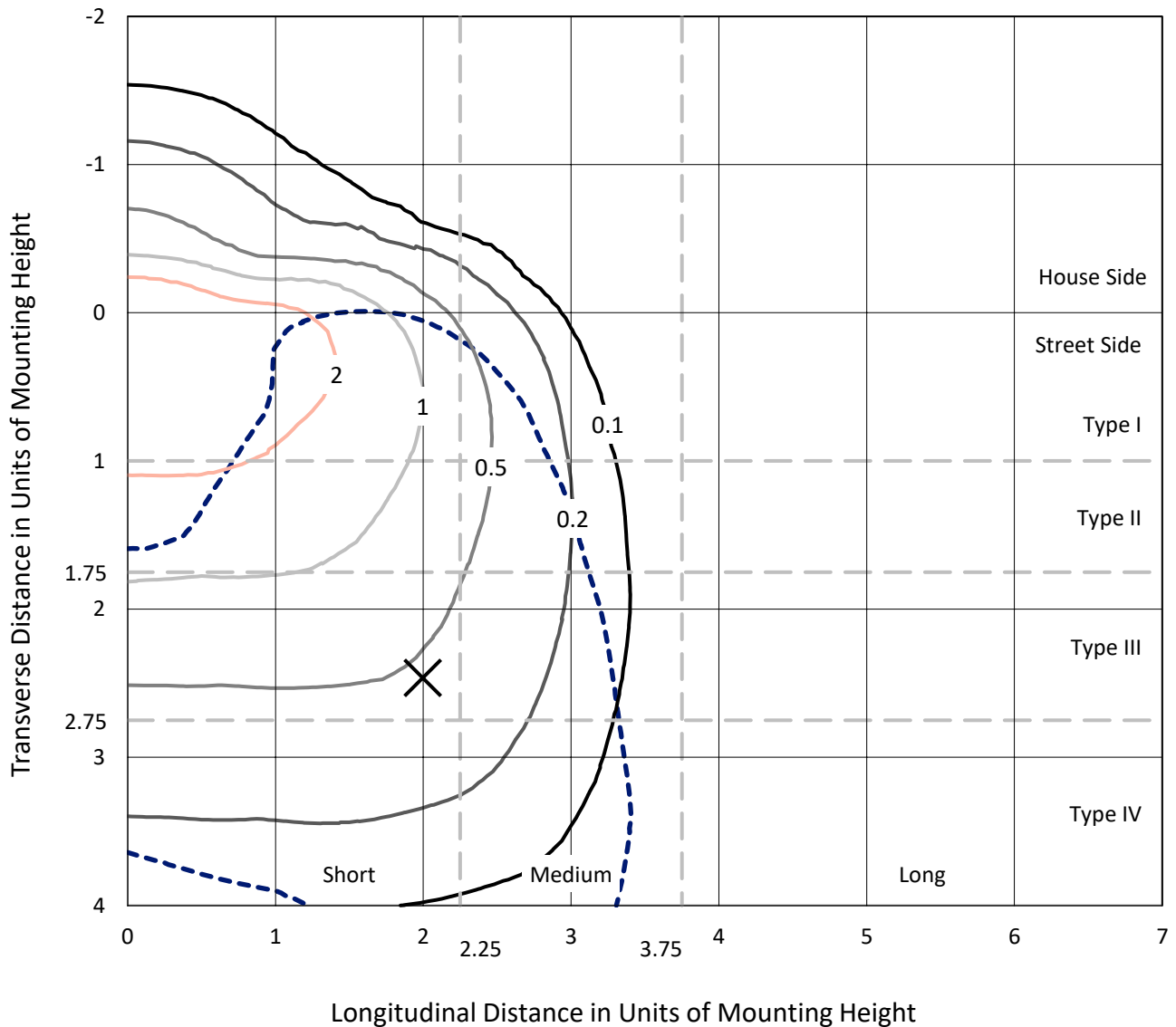
Lumens per Lamp: N/A  
Luminaire Lumens: 5603 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1  
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

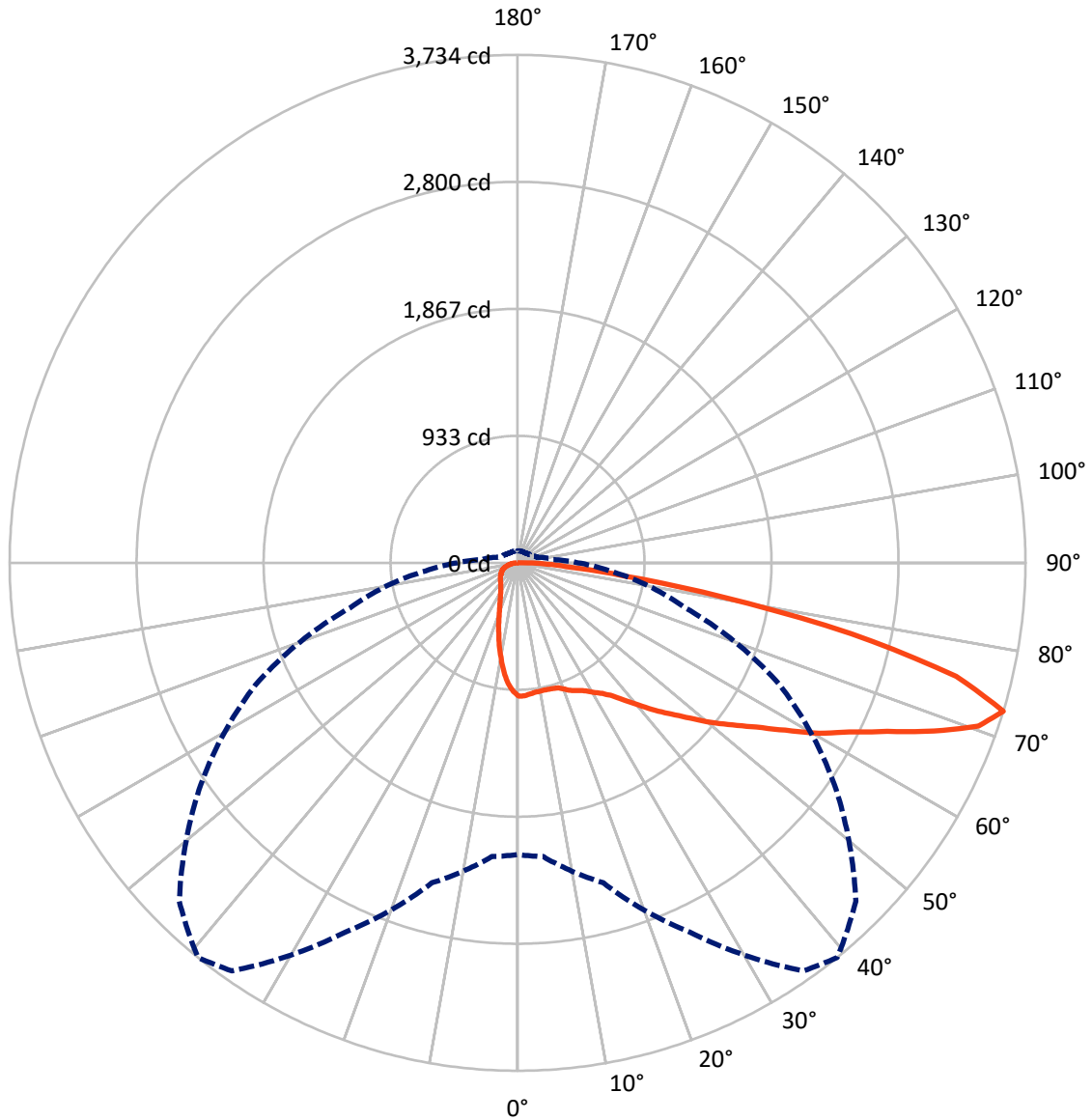
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.4 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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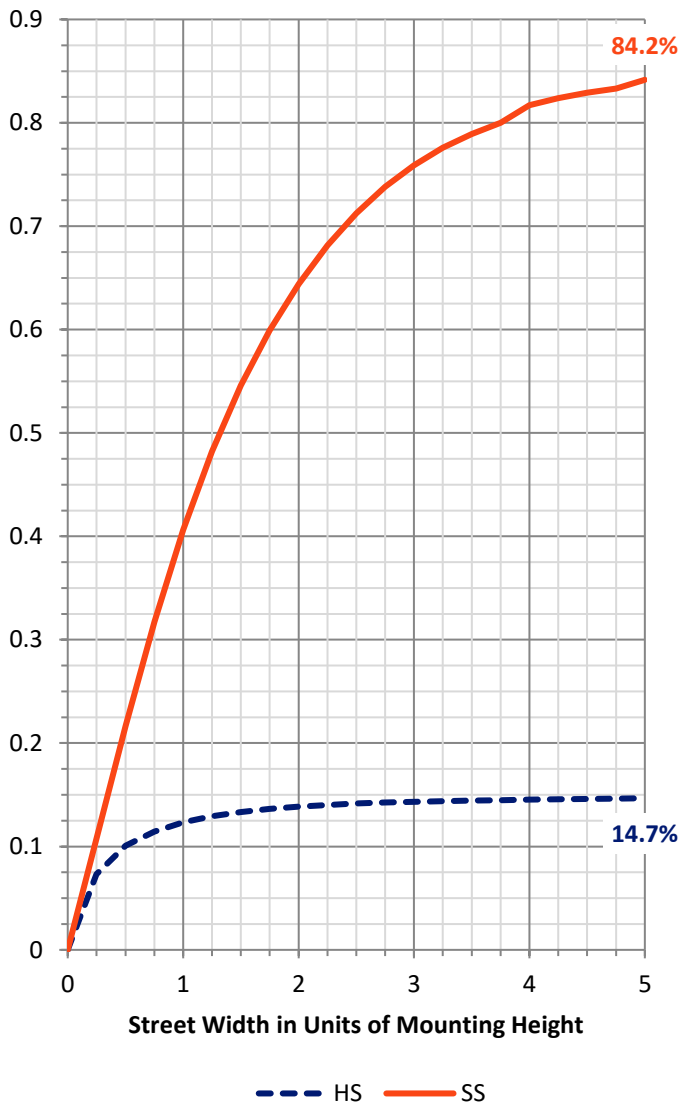
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	832.7	0.0	832.7
	% Fixture	14.9	0.0	14.9
<b>Street Side</b>	Lumens	4770.3	0.0	4770.3
	% Fixture	85.1	0.0	85.1
<b>Total</b>	Lumens	5603.0	0.0	5603.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.7	1.5
10°-20°	221.2	3.9
20°-30°	337.0	6.0
30°-40°	492.9	8.8
40°-50°	754.7	13.5
50°-60°	1106.9	19.8
60°-70°	1411.7	25.2
70°-80°	1019.9	18.2
80°-90°	172.1	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°	5603.0	100.0
0°-180°	5603.0	100.0



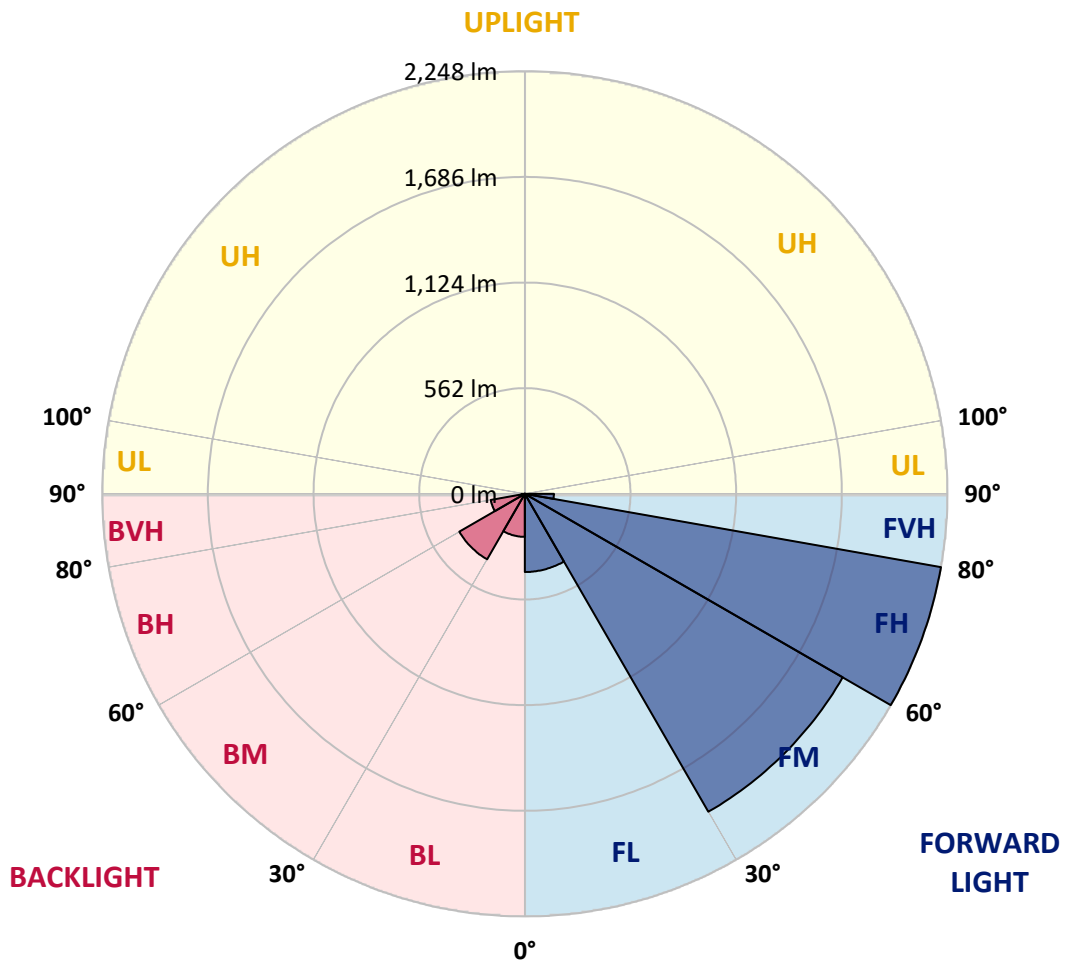
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	415.8	7.4			
FM (30°-60°)	1952.2	34.8			
FH (60°-80°)	2247.6	40.1			G2/5000
FVH (80°-90°)	154.6	2.8			G2/225
BL (0°-30°)	229.0	4.1	B1/500		
BM (30°-60°)	402.3	7.2	B1/1000		
BH (60°-80°)	184.0	3.3	B1/500		G1/500
BVH (80°-90°)	17.4	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°	980.8	980.8	980.8	980.8	980.8	980.8	980.8	980.8	980.8	980.8	980.8
2.5°	995.5	997.6	993.4	989.2	987.1	978.7	987.1	982.9	978.7	978.7	978.7
5°	982.9	985.0	985.0	980.8	982.9	968.1	966.0	968.1	961.8	957.6	955.5
7.5°	963.9	968.1	976.6	974.5	966.0	959.7	961.8	959.7	949.2	942.9	926.1
10°	949.2	953.4	957.6	961.8	959.7	957.6	955.5	947.1	945.0	930.3	913.4
12.5°	934.5	934.5	936.6	953.4	955.5	955.5	942.9	942.9	936.6	934.5	909.2
15°	919.7	926.1	942.9	947.1	955.5	959.7	953.4	953.4	942.9	928.2	909.2
17.5°	923.9	934.5	951.3	961.8	966.0	966.0	974.5	968.1	953.4	945.0	926.1
20°	945.0	947.1	968.1	987.1	991.3	991.3	982.9	976.6	966.0	951.3	926.1
22.5°	957.6	972.4	997.6	1008.1	1020.8	1020.8	1010.2	995.5	980.8	966.0	938.7
25°	1012.3	1014.4	1025.0	1041.8	1048.1	1039.7	1029.2	1012.3	993.4	978.7	953.4
27.5°	1050.2	1060.8	1073.4	1081.8	1071.3	1065.0	1056.5	1037.6	1022.9	1010.2	974.5
30°	1119.7	1107.1	1115.5	1119.7	1100.7	1104.9	1081.8	1065.0	1048.1	1048.1	1008.1
32.5°	1161.8	1172.3	1163.9	1161.8	1147.0	1144.9	1130.2	1111.3	1100.7	1113.4	1058.6
35°	1235.4	1229.1	1229.1	1227.0	1210.2	1199.7	1199.7	1166.0	1176.5	1203.9	1136.5
37.5°	1273.3	1271.2	1283.8	1294.4	1277.5	1283.8	1277.5	1262.8	1267.0	1315.4	1233.3
40°	1311.2	1325.9	1351.2	1355.4	1365.9	1374.3	1370.1	1368.0	1384.9	1462.7	1363.8
42.5°	1347.0	1359.6	1397.5	1431.2	1456.4	1483.8	1485.9	1485.9	1540.6	1652.2	1521.7
45°	1393.3	1403.8	1456.4	1523.8	1565.9	1584.8	1601.6	1620.6	1694.3	1826.8	1690.0
47.5°	1456.4	1464.8	1528.0	1612.2	1694.3	1704.8	1738.5	1759.5	1871.0	2005.7	1862.6
50°	1546.9	1540.6	1591.1	1713.2	1793.2	1843.7	1892.1	1930.0	2039.4	2186.7	1997.3
52.5°	1620.6	1620.6	1658.5	1820.5	1930.0	1978.4	2028.9	2081.5	2207.8	2367.7	2106.8
55°	1746.9	1734.2	1757.4	1925.8	2083.6	2129.9	2226.7	2270.9	2393.0	2502.4	2199.4
57.5°	1833.2	1839.5	1866.8	2064.7	2264.6	2321.4	2418.3	2449.8	2557.2	2643.5	2266.7
60°	1946.8	1925.8	1984.7	2218.3	2464.6	2544.5	2624.5	2643.5	2723.4	2734.0	2298.3
62.5°	2056.3	2052.0	2102.6	2372.0	2679.2	2736.1	2818.1	2839.2	2872.9	2805.5	2254.1
65°	2123.6	2151.0	2245.7	2540.3	2923.4	2986.5	3068.6	3026.5	2988.6	2742.4	2037.3
67.5°	2216.2	2228.8	2374.1	2723.4	3205.4	3300.1	3371.7	3205.4	2923.4	2483.5	1715.3
70°	2237.3	2270.9	2460.4	2915.0	3495.8	3592.7	3596.9	3144.4	2685.5	2020.5	1243.9
72.5°	2144.7	2167.8	2435.1	2994.9	3662.1	3733.7	3516.9	2843.4	2127.8	1273.3	677.7
75°	1803.7	1868.9	2119.4	2748.7	3356.9	3329.6	2980.2	2169.9	1277.5	564.0	286.2
77.5°	1256.5	1258.6	1519.6	1999.4	2513.0	2506.7	2125.7	1258.6	547.2	227.3	168.4
80°	557.7	597.7	755.6	1077.6	1525.9	1525.9	1239.6	625.1	273.6	147.3	115.8
82.5°	328.3	341.0	404.1	503.0	742.9	782.9	593.5	416.7	187.3	92.6	71.6
85°	242.0	263.1	301.0	303.1	351.5	357.8	328.3	362.0	128.4	50.5	58.9
87.5°	181.0	193.6	239.9	199.9	187.3	176.8	202.0	370.4	48.4	25.3	18.9
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°	980.8	980.8	980.8	980.8	980.8	980.8	980.8	980.8	980.8	980.8	980.8
2.5°	970.2	970.2	966.0	957.6	957.6	940.8	945.0	949.2	938.7	938.7	940.8
5°	955.5	947.1	936.6	923.9	915.5	892.4	888.2	873.4	871.3	867.1	860.8
7.5°	926.1	913.4	894.5	875.5	848.2	827.1	801.9	780.8	772.4	766.1	764.0
10°	898.7	896.6	865.0	827.1	785.0	745.1	707.2	679.8	663.0	652.4	650.3
12.5°	898.7	881.9	837.7	785.0	724.0	665.1	616.7	578.8	555.6	538.8	532.5
15°	894.5	877.6	818.7	738.7	669.3	589.3	522.0	482.0	448.3	431.5	433.6
17.5°	898.7	873.4	791.4	705.1	608.2	522.0	442.0	393.6	359.9	347.3	345.2
20°	900.8	869.2	770.3	658.8	545.1	448.3	372.5	326.2	301.0	292.5	292.5
22.5°	896.6	856.6	738.7	604.0	490.4	387.3	324.1	284.1	267.3	256.8	261.0
25°	915.5	854.5	709.3	557.7	427.2	336.7	288.3	258.9	248.4	242.0	244.1
27.5°	919.7	854.5	686.1	505.1	372.5	298.9	261.0	242.0	233.6	229.4	227.3
30°	936.6	858.7	658.8	452.5	328.3	269.4	239.9	229.4	223.1	221.0	221.0
32.5°	982.9	871.3	629.3	408.3	290.4	244.1	225.2	216.8	212.6	210.5	212.6
35°	1037.6	905.0	597.7	362.0	263.1	227.3	212.6	206.3	204.2	204.2	204.2
37.5°	1121.8	955.5	570.4	324.1	239.9	210.5	199.9	197.8	195.7	197.8	197.8
40°	1218.6	1010.2	545.1	294.7	223.1	199.9	189.4	189.4	187.3	189.4	191.5
42.5°	1330.1	1077.6	519.9	265.2	208.4	191.5	183.1	181.0	178.9	183.1	185.2
45°	1483.8	1170.2	503.0	248.4	197.8	183.1	174.7	174.7	172.6	172.6	176.8
47.5°	1612.2	1258.6	503.0	231.5	191.5	176.8	168.4	168.4	164.2	166.3	166.3
50°	1719.5	1334.4	513.5	227.3	183.1	170.5	164.2	160.0	157.8	157.8	157.8
52.5°	1791.1	1380.7	522.0	223.1	178.9	162.1	157.8	155.7	151.5	149.4	151.5
55°	1862.6	1412.2	524.1	223.1	172.6	153.6	149.4	149.4	145.2	143.1	143.1
57.5°	1890.0	1399.6	494.6	218.9	168.4	147.3	143.1	141.0	138.9	136.8	136.8
60°	1877.4	1353.3	429.4	208.4	164.2	143.1	134.7	134.7	134.7	130.5	132.6
62.5°	1791.1	1195.4	345.2	191.5	157.8	134.7	126.3	130.5	130.5	128.4	128.4
65°	1563.8	987.1	279.9	176.8	149.4	128.4	120.0	126.3	128.4	126.3	124.2
67.5°	1250.2	759.8	231.5	160.0	138.9	117.9	111.5	117.9	120.0	117.9	117.9
70°	858.7	490.4	187.3	143.1	124.2	107.3	101.0	105.2	105.2	107.3	107.3
72.5°	444.1	265.2	153.6	122.1	107.3	96.8	90.5	90.5	88.4	88.4	88.4
75°	221.0	181.0	128.4	103.1	90.5	82.1	77.9	73.7	73.7	73.7	73.7
77.5°	153.6	138.9	105.2	82.1	73.7	67.3	67.3	61.0	61.0	61.0	61.0
80°	115.8	109.4	80.0	63.1	56.8	52.6	52.6	50.5	50.5	48.4	48.4
82.5°	82.1	88.4	61.0	46.3	42.1	40.0	40.0	37.9	37.9	33.7	33.7
85°	65.2	73.7	46.3	33.7	31.6	27.4	27.4	25.3	25.3	23.2	21.0
87.5°	18.9	40.0	18.9	12.6	12.6	12.6	12.6	10.5	10.5	8.4	8.4
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)