

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: P677134

Luminaire Tested: **CCW-SA-2B-735-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677134
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-735-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
SL4 distribution lens and House Side Shield
Light Source: (32) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

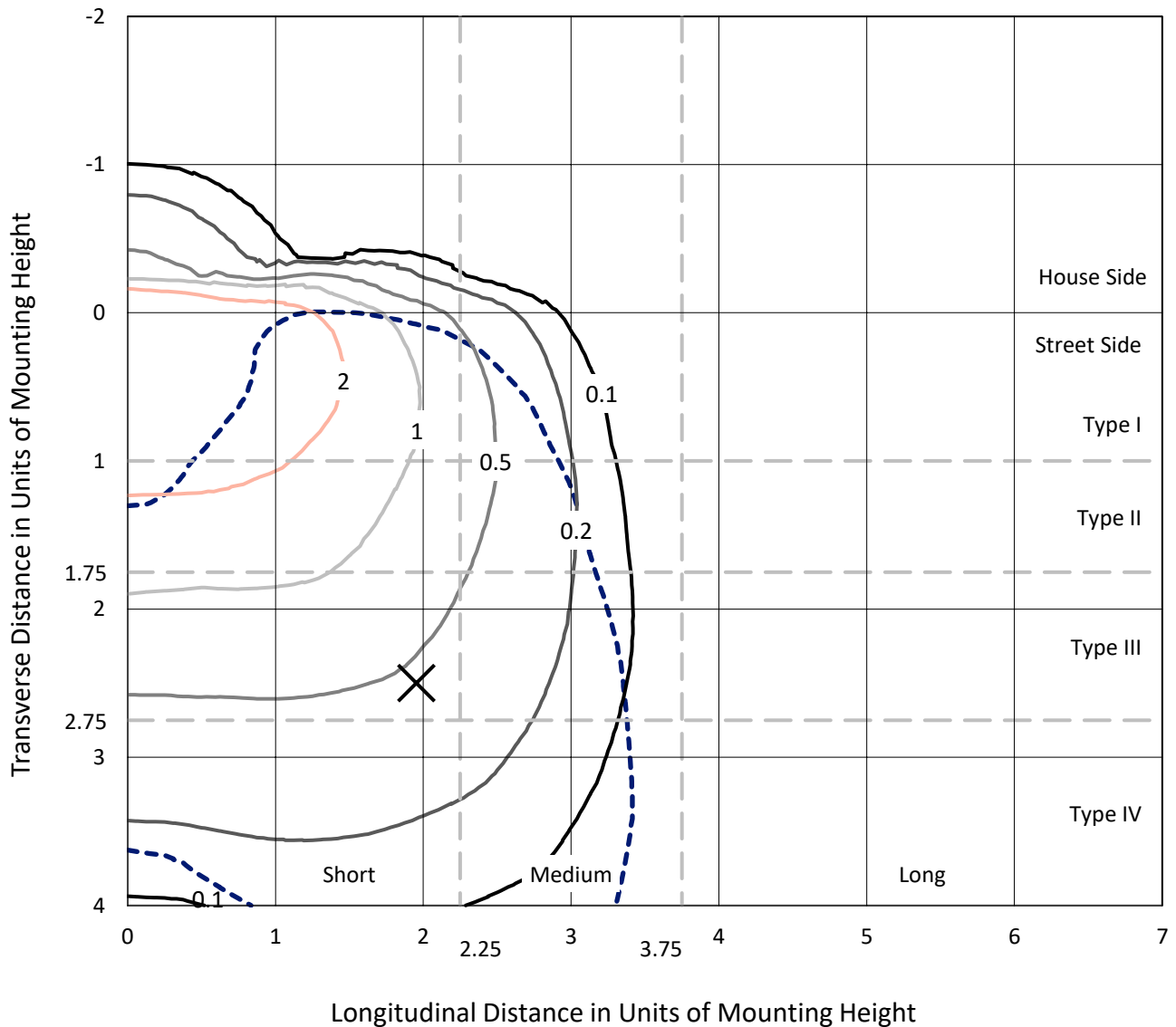
Lumens per Lamp: N/A
Luminaire Lumens: 5626.5 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 46
Input Voltage (V): 120
Input Current (A_{in}): 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

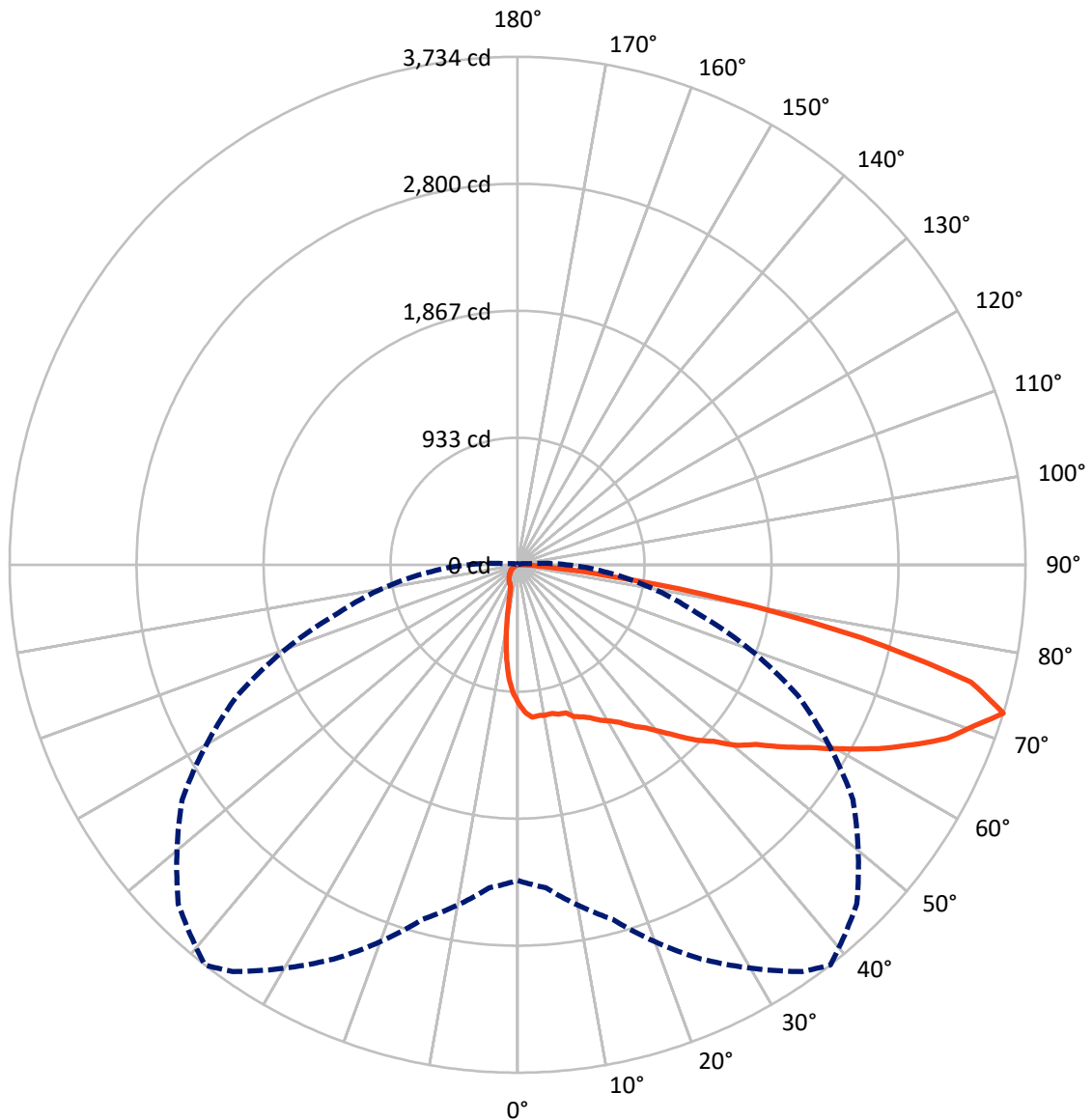
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.9 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
House Side	Lumens	471.2	0.0	471.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	5155.3	0.0	5155.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	5626.5	0.0	5626.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.0	1.6
10°-20°	218.1	3.9
20°-30°	349.6	6.2
30°-40°	527.8	9.4
40°-50°	803.2	14.3
50°-60°	1130.9	20.1
60°-70°	1381.4	24.6
70°-80°	1003.1	17.8
80°-90°	123.5	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°	5626.5	100.0
0°-180°	5626.5	100.0

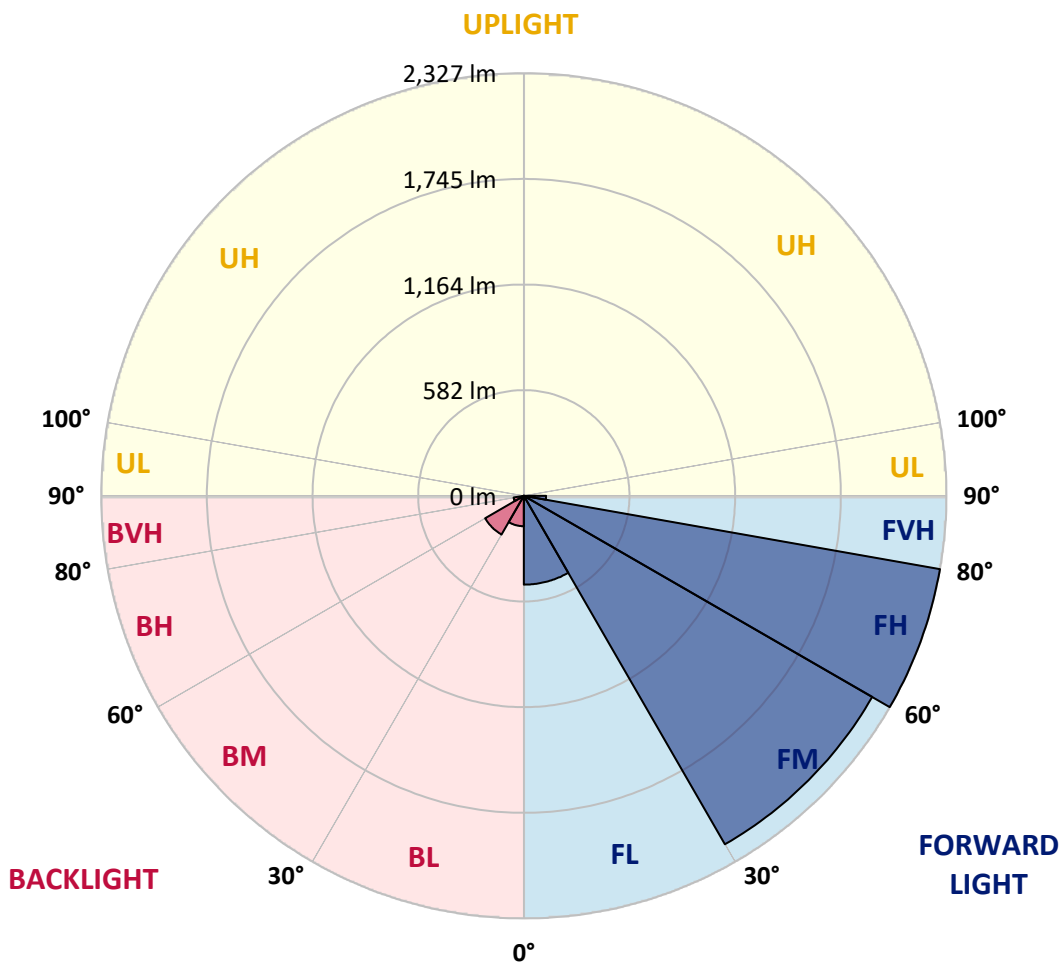


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	489.4	8.7			
FM (30°-60°)	2215.7	39.4			
FH (60°-80°)	2327.3	41.4			G2/5000
FVH (80°-90°)	122.9	2.2			G2/225
BL (0°-30°)	167.3	3.0	B1/500		
BM (30°-60°)	246.2	4.4	B1/1000		
BH (60°-80°)	57.1	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°	1017.5	1017.5	1017.5	1017.5	1017.5	1017.5	1017.5	1017.5	1017.5	1017.5	1017.5
2.5°	1117.8	1117.8	1128.4	1117.8	1113.8	1088.8	1090.1	1076.9	1063.7	1045.2	1028.1
5°	1131.0	1140.2	1146.8	1137.6	1123.1	1125.7	1135.0	1109.9	1074.2	1051.8	1013.5
7.5°	1125.7	1145.5	1140.2	1135.0	1125.7	1119.1	1105.9	1095.4	1078.2	1057.1	1012.2
10°	1121.8	1128.4	1129.7	1125.7	1105.9	1124.4	1109.9	1092.7	1071.6	1046.5	991.1
12.5°	1107.2	1107.2	1119.1	1109.9	1112.5	1121.8	1115.2	1111.2	1088.8	1067.6	1018.8
15°	1091.4	1096.7	1115.2	1129.7	1142.9	1138.9	1135.0	1123.1	1103.3	1079.5	1028.1
17.5°	1095.4	1098.0	1127.0	1153.4	1146.8	1144.2	1165.3	1140.2	1120.4	1094.0	1036.0
20°	1109.9	1117.8	1150.8	1185.1	1191.7	1191.7	1183.8	1169.3	1141.6	1105.9	1050.5
22.5°	1124.4	1127.0	1181.1	1224.7	1231.3	1214.1	1220.7	1178.5	1152.1	1132.3	1065.0
25°	1179.8	1174.5	1232.6	1266.9	1263.0	1245.8	1239.2	1202.3	1191.7	1156.1	1096.7
27.5°	1255.0	1232.6	1289.4	1310.5	1289.4	1294.6	1276.2	1236.6	1214.1	1193.0	1111.2
30°	1301.2	1314.4	1344.8	1365.9	1330.3	1331.6	1322.4	1278.8	1244.5	1249.8	1160.0
32.5°	1372.5	1381.7	1404.2	1413.4	1385.7	1383.1	1373.8	1339.5	1314.4	1309.2	1226.0
35°	1449.0	1466.2	1467.5	1470.2	1445.1	1455.6	1442.4	1393.6	1406.8	1416.1	1305.2
37.5°	1524.3	1508.4	1534.8	1546.7	1519.0	1519.0	1523.0	1490.0	1513.7	1541.4	1417.4
40°	1553.3	1559.9	1606.1	1596.9	1629.8	1610.1	1624.6	1616.7	1636.4	1699.8	1575.7
42.5°	1583.7	1591.6	1653.6	1670.8	1710.4	1716.9	1738.1	1739.4	1797.5	1901.7	1727.5
45°	1641.7	1628.5	1713.0	1755.2	1819.9	1838.4	1863.4	1884.6	1975.6	2098.3	1900.4
47.5°	1694.5	1676.0	1772.4	1856.8	1936.0	1940.0	2008.6	2031.0	2139.3	2279.1	2072.0
50°	1768.4	1775.0	1815.9	1961.1	2041.6	2087.8	2135.3	2209.2	2329.3	2478.4	2196.0
52.5°	1845.0	1838.4	1907.0	2049.5	2176.2	2193.4	2300.3	2383.4	2514.1	2626.2	2251.4
55°	1938.7	1946.6	1973.0	2160.4	2321.4	2362.3	2482.4	2569.5	2712.0	2689.6	2269.9
57.5°	2032.4	2024.4	2083.8	2284.4	2503.5	2533.9	2693.5	2745.0	2841.3	2731.8	2223.7
60°	2124.7	2139.3	2164.3	2424.3	2702.8	2747.6	2874.3	2900.7	2921.8	2751.6	2188.1
62.5°	2230.3	2196.0	2273.9	2572.1	2882.3	2976.0	3076.3	2972.0	2953.5	2716.0	2106.3
65°	2283.1	2293.7	2395.3	2741.0	3121.1	3189.8	3202.9	3068.3	2973.3	2636.8	2029.7
67.5°	2364.9	2379.4	2508.8	2913.9	3366.6	3404.9	3357.4	3155.4	2956.2	2533.9	1753.9
70°	2375.5	2411.1	2660.5	3094.7	3521.0	3554.0	3517.0	3213.5	2817.6	2128.7	1298.6
72.5°	2320.1	2383.4	2697.5	3197.7	3650.3	3733.5	3526.3	3009.0	2271.2	1358.0	665.1
75°	1752.6	1805.4	2469.2	3044.6	3420.7	3440.5	3096.1	2296.3	1293.3	463.2	170.2
77.5°	908.0	999.0	1648.3	2326.7	2606.4	2585.3	2155.1	1352.7	444.7	121.4	68.6
80°	521.3	543.7	720.6	1306.5	1639.1	1558.6	1191.7	583.3	195.3	60.7	44.9
82.5°	257.3	289.0	388.0	584.6	819.5	674.4	447.4	349.7	109.5	33.0	39.6
85°	55.4	58.1	198.0	279.8	332.6	219.1	153.1	294.3	39.6	19.8	38.3
87.5°	39.6	38.3	55.4	125.4	92.4	56.7	91.1	154.4	9.2	9.2	7.9
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°	1017.5	1017.5	1017.5	1017.5	1017.5	1017.5	1017.5	1017.5	1017.5	1017.5	1017.5
2.5°	1017.5	1005.6	992.4	967.4	960.8	956.8	934.4	933.0	929.1	919.8	915.9
5°	989.8	970.0	944.9	918.5	897.4	859.1	812.9	789.2	760.2	761.5	752.2
7.5°	985.8	948.9	913.2	857.8	790.5	719.2	648.0	601.8	568.8	549.0	553.0
10°	967.4	939.6	881.6	778.6	670.4	562.2	471.1	402.5	362.9	332.6	341.8
12.5°	975.3	921.2	839.3	702.1	547.7	414.4	300.9	234.9	205.9	195.3	198.0
15°	970.0	921.2	814.3	618.9	430.2	281.1	195.3	174.2	168.9	168.9	166.3
17.5°	985.8	931.7	772.0	537.1	308.8	187.4	167.6	163.6	159.7	159.7	159.7
20°	1008.3	937.0	743.0	446.1	217.8	165.0	157.0	154.4	153.1	153.1	151.8
22.5°	1009.6	931.7	688.9	345.8	167.6	155.7	149.1	147.8	147.8	145.2	145.2
25°	1017.5	937.0	630.8	260.0	155.7	146.5	141.2	139.9	141.2	139.9	138.6
27.5°	1037.3	946.2	572.8	190.0	146.5	138.6	134.6	133.3	133.3	133.3	130.7
30°	1062.4	946.2	508.1	157.0	138.6	130.7	126.7	125.4	124.1	124.1	124.1
32.5°	1115.2	976.6	428.9	139.9	128.0	121.4	117.5	117.5	116.1	116.1	114.8
35°	1181.1	997.7	348.4	129.3	118.8	112.2	108.2	108.2	106.9	106.9	105.6
37.5°	1263.0	1050.5	266.6	121.4	109.5	102.9	99.0	99.0	99.0	97.7	97.7
40°	1379.1	1104.6	198.0	110.9	100.3	93.7	91.1	89.7	88.4	88.4	85.8
42.5°	1503.2	1187.7	147.8	102.9	92.4	87.1	83.1	79.2	79.2	75.2	75.2
45°	1637.8	1260.3	120.1	93.7	84.5	77.9	73.9	71.3	67.3	64.7	64.7
47.5°	1769.7	1305.2	105.6	83.1	76.5	71.3	67.3	62.0	56.7	55.4	54.1
50°	1876.6	1318.4	93.7	75.2	69.9	64.7	59.4	52.8	47.5	44.9	43.6
52.5°	1876.6	1245.8	84.5	67.3	63.3	58.1	51.5	43.6	37.0	34.3	33.0
55°	1876.6	1131.0	75.2	62.0	56.7	52.8	43.6	35.6	29.0	25.1	23.8
57.5°	1848.9	992.4	67.3	55.4	50.1	44.9	37.0	27.7	21.1	17.2	17.2
60°	1772.4	847.3	58.1	48.8	43.6	37.0	29.0	19.8	13.2	9.2	9.2
62.5°	1674.7	674.4	50.1	40.9	35.6	30.4	22.4	13.2	5.3	2.6	2.6
65°	1504.5	497.5	43.6	34.3	27.7	22.4	14.5	5.3	0.0	0.0	0.0
67.5°	1241.9	332.6	34.3	27.7	23.8	15.8	9.2	1.3	0.0	0.0	0.0
70°	873.7	188.7	26.4	19.8	17.2	10.6	2.6	0.0	0.0	0.0	0.0
72.5°	359.0	83.1	18.5	14.5	11.9	5.3	0.0	0.0	0.0	0.0	0.0
75°	97.7	37.0	11.9	7.9	6.6	1.3	0.0	0.0	0.0	0.0	0.0
77.5°	56.7	25.1	5.3	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	44.9	11.9	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	44.9	6.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	38.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	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)