

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: P677131

Luminaire Tested: **CCW-SA-1E-735-U-SL4-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677131  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1E-735-U-SL4-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/  
SL4 distribution lens and House Side Shield  
Light Source: (16) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

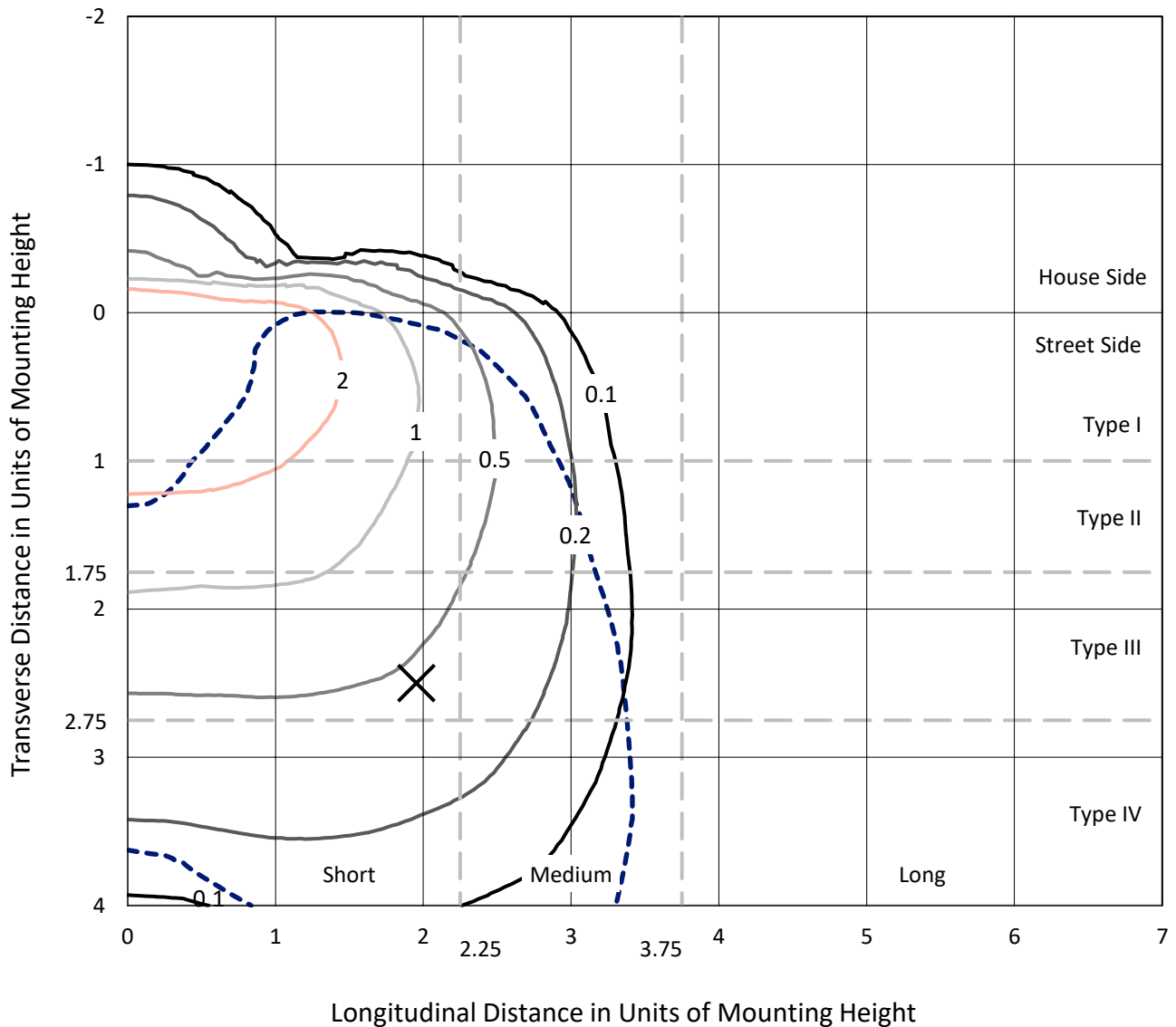
Lumens per Lamp: N/A  
Luminaire Lumens: 5570.2 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

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

REPORT NUMBER: P677131  
 CATALOG NUMBER: CCW-SA-1E-735-U-SL4-HSS

### Iso-Footcandle Lines of Horizontal Illumination

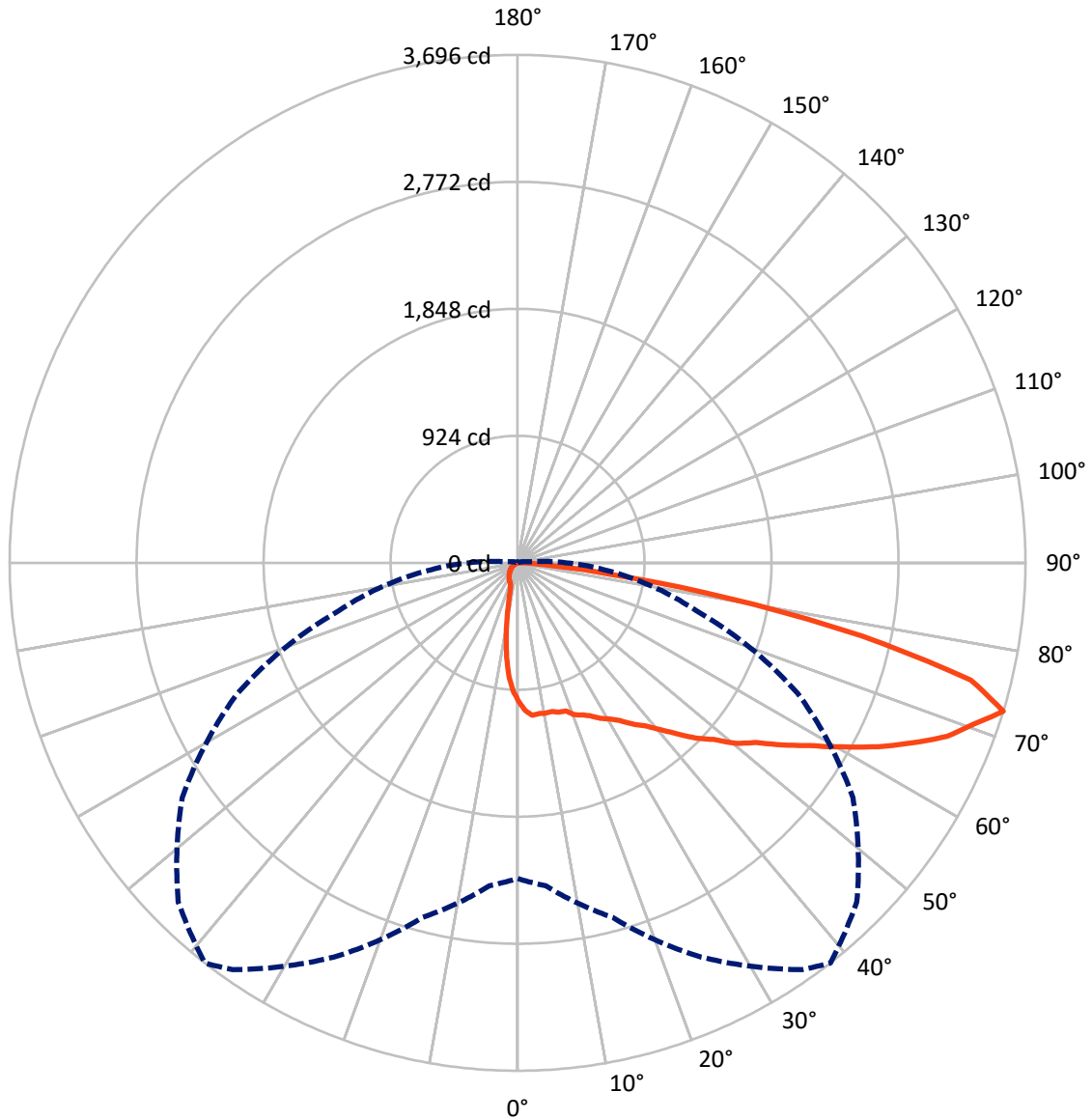
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P677131  
CATALOG NUMBER: CCW-SA-1E-735-U-SL4-HSS

### 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	466.5	0.0	466.5
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	5103.7	0.0	5103.7
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	5570.2	0.0	5570.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.2	1.6
10°-20°	215.9	3.9
20°-30°	346.1	6.2
30°-40°	522.5	9.4
40°-50°	795.2	14.3
50°-60°	1119.5	20.1
60°-70°	1367.5	24.6
70°-80°	993.0	17.8
80°-90°	122.3	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°	5570.2	100.0
0°-180°	5570.2	100.0

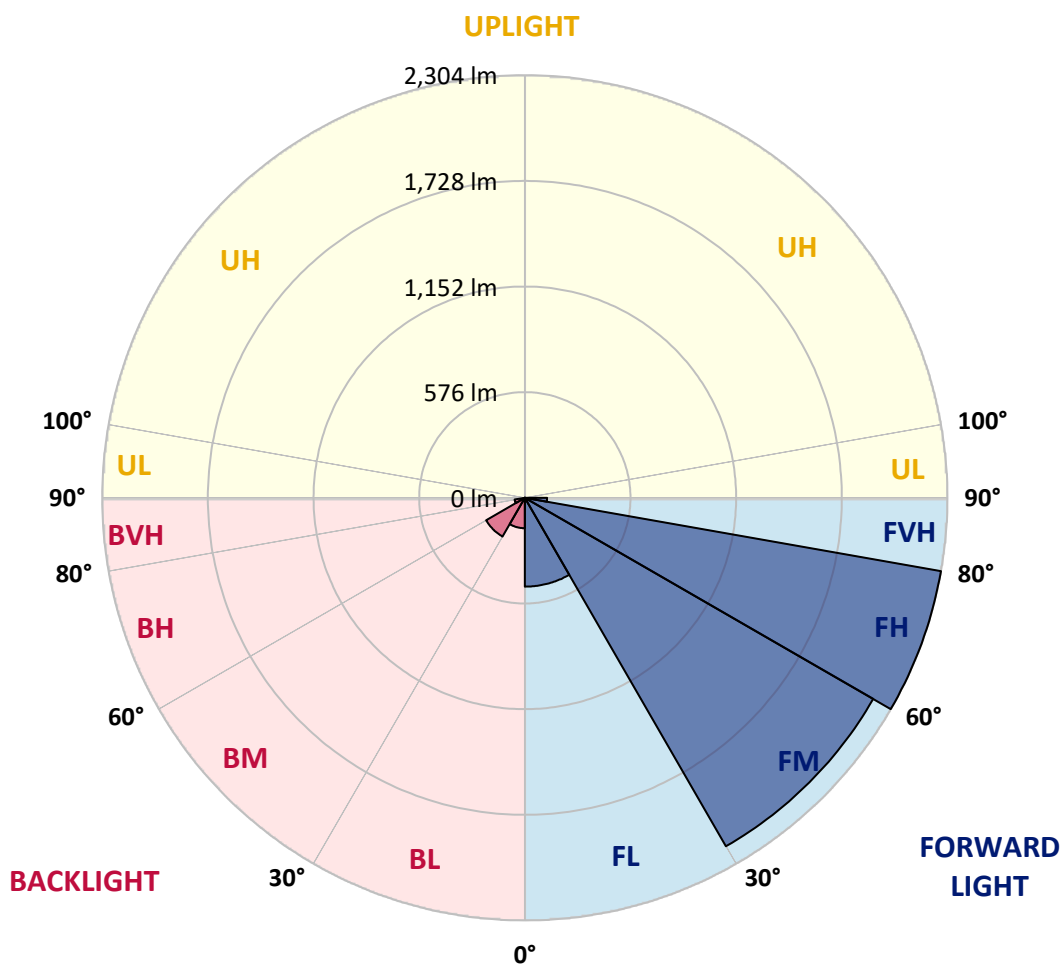


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	484.5	8.7			
FM (30°-60°)	2193.5	39.4			
FH (60°-80°)	2304.0	41.4			G2/5000
FVH (80°-90°)	121.7	2.2			G2/225
BL (0°-30°)	165.6	3.0	B1/500		
BM (30°-60°)	243.7	4.4	B1/1000		
BH (60°-80°)	56.6	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





REPORT NUMBER: P677131

CATALOG NUMBER: CCW-SA-1E-735-U-SL4-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1007.3	1007.3	1007.3	1007.3	1007.3	1007.3	1007.3	1007.3	1007.3	1007.3	1007.3
2.5°	1106.6	1106.6	1117.1	1106.6	1102.7	1077.9	1079.2	1066.1	1053.0	1034.7	1017.8
5°	1119.7	1128.8	1135.3	1126.2	1111.8	1114.4	1123.6	1098.8	1063.5	1041.3	1003.4
7.5°	1114.4	1134.0	1128.8	1123.6	1114.4	1107.9	1094.8	1084.4	1067.4	1046.5	1002.1
10°	1110.5	1117.1	1118.4	1114.4	1094.8	1113.1	1098.8	1081.8	1060.9	1036.1	981.2
12.5°	1096.2	1096.2	1107.9	1098.8	1101.4	1110.5	1104.0	1100.1	1077.9	1057.0	1008.6
15°	1080.5	1085.7	1104.0	1118.4	1131.4	1127.5	1123.6	1111.8	1092.2	1068.7	1017.8
17.5°	1084.4	1087.0	1115.7	1141.9	1135.3	1132.7	1153.6	1128.8	1109.2	1083.1	1025.6
20°	1098.8	1106.6	1139.3	1173.2	1179.8	1179.8	1171.9	1157.6	1130.1	1094.8	1040.0
22.5°	1113.1	1115.7	1169.3	1212.4	1219.0	1202.0	1208.5	1166.7	1140.6	1121.0	1054.3
25°	1168.0	1162.8	1220.3	1254.2	1250.3	1233.3	1226.8	1190.2	1179.8	1144.5	1085.7
27.5°	1242.5	1220.3	1276.4	1297.4	1276.4	1281.7	1263.4	1224.2	1202.0	1181.1	1100.1
30°	1288.2	1301.3	1331.3	1352.2	1316.9	1318.3	1309.1	1266.0	1232.0	1237.3	1148.4
32.5°	1358.8	1367.9	1390.1	1399.3	1371.8	1369.2	1360.1	1326.1	1301.3	1296.0	1213.7
35°	1434.5	1451.5	1452.8	1455.4	1430.6	1441.1	1428.0	1379.7	1392.7	1401.9	1292.1
37.5°	1509.0	1493.3	1519.5	1531.2	1503.8	1503.8	1507.7	1475.0	1498.6	1526.0	1403.2
40°	1537.7	1544.3	1590.0	1580.9	1613.5	1593.9	1608.3	1600.5	1620.1	1682.8	1560.0
42.5°	1567.8	1575.6	1637.0	1654.0	1693.2	1699.8	1720.7	1722.0	1779.4	1882.7	1710.2
45°	1625.3	1612.2	1695.8	1737.6	1801.7	1820.0	1844.8	1865.7	1955.8	2077.3	1881.4
47.5°	1677.5	1659.3	1754.6	1838.2	1916.6	1920.6	1988.5	2010.7	2117.8	2256.3	2051.2
50°	1750.7	1757.2	1797.7	1941.5	2021.2	2066.9	2113.9	2187.1	2306.0	2453.6	2174.0
52.5°	1826.5	1820.0	1887.9	2029.0	2154.4	2171.4	2277.2	2359.5	2488.9	2599.9	2228.9
55°	1919.2	1927.1	1953.2	2138.7	2298.1	2338.6	2457.5	2543.7	2684.9	2662.6	2247.2
57.5°	2012.0	2004.2	2063.0	2261.5	2478.4	2508.5	2666.6	2717.5	2812.9	2704.4	2201.4
60°	2103.5	2117.8	2142.7	2400.0	2675.7	2720.1	2845.6	2871.7	2892.6	2724.0	2166.2
62.5°	2208.0	2174.0	2251.1	2546.4	2853.4	2946.2	3045.4	2942.2	2923.9	2688.8	2085.2
65°	2260.2	2270.7	2371.3	2713.6	3089.9	3157.8	3170.9	3037.6	2943.5	2610.4	2009.4
67.5°	2341.2	2355.6	2483.7	2884.7	3332.9	3370.8	3323.7	3123.8	2926.6	2508.5	1736.3
70°	2351.7	2387.0	2633.9	3063.7	3485.7	3518.4	3481.8	3181.3	2789.4	2107.4	1285.6
72.5°	2296.8	2359.5	2670.5	3165.6	3613.8	3696.1	3491.0	2978.8	2248.5	1344.4	658.5
75°	1735.0	1787.3	2444.5	3014.1	3386.4	3406.0	3065.0	2273.3	1280.4	458.6	168.5
77.5°	898.9	989.0	1631.8	2303.4	2580.3	2559.4	2133.5	1339.2	440.3	120.2	67.9
80°	516.1	538.3	713.3	1293.4	1622.7	1543.0	1179.8	577.5	193.4	60.1	44.4
82.5°	254.8	286.1	384.1	578.8	811.3	667.6	442.9	346.2	108.4	32.7	39.2
85°	54.9	57.5	196.0	277.0	329.2	216.9	151.6	291.3	39.2	19.6	37.9
87.5°	39.2	37.9	54.9	124.1	91.5	56.2	90.1	152.9	9.1	9.1	7.8
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°	1007.3	1007.3	1007.3	1007.3	1007.3	1007.3	1007.3	1007.3	1007.3	1007.3	1007.3
2.5°	1007.3	995.6	982.5	957.7	951.1	947.2	925.0	923.7	919.8	910.6	906.7
5°	979.9	960.3	935.5	909.3	888.4	850.5	804.8	781.3	752.5	753.8	744.7
7.5°	976.0	939.4	904.1	849.2	782.6	712.0	641.5	595.8	563.1	543.5	547.4
10°	957.7	930.2	872.7	770.8	663.7	556.6	466.4	398.5	359.3	329.2	338.4
12.5°	965.5	911.9	830.9	695.1	542.2	410.2	297.9	232.6	203.8	193.4	196.0
15°	960.3	911.9	806.1	612.7	425.9	278.3	193.4	172.5	167.2	167.2	164.6
17.5°	976.0	922.4	764.3	531.7	305.7	185.5	165.9	162.0	158.1	158.1	158.1
20°	998.2	927.6	735.6	441.6	215.6	163.3	155.5	152.9	151.6	151.6	150.2
22.5°	999.5	922.4	682.0	342.3	165.9	154.2	147.6	146.3	146.3	143.7	143.7
25°	1007.3	927.6	624.5	257.4	154.2	145.0	139.8	138.5	139.8	138.5	137.2
27.5°	1026.9	936.8	567.0	188.1	145.0	137.2	133.3	132.0	132.0	132.0	129.3
30°	1051.7	936.8	503.0	155.5	137.2	129.3	125.4	124.1	122.8	122.8	122.8
32.5°	1104.0	966.8	424.6	138.5	126.7	120.2	116.3	116.3	115.0	115.0	113.7
35°	1169.3	987.7	344.9	128.0	117.6	111.1	107.1	107.1	105.8	105.8	104.5
37.5°	1250.3	1040.0	263.9	120.2	108.4	101.9	98.0	98.0	98.0	96.7	96.7
40°	1365.3	1093.5	196.0	109.7	99.3	92.8	90.1	88.8	87.5	87.5	84.9
42.5°	1488.1	1175.8	146.3	101.9	91.5	86.2	82.3	78.4	78.4	74.5	74.5
45°	1621.4	1247.7	118.9	92.8	83.6	77.1	73.2	70.6	66.6	64.0	64.0
47.5°	1752.0	1292.1	104.5	82.3	75.8	70.6	66.6	61.4	56.2	54.9	53.6
50°	1857.8	1305.2	92.8	74.5	69.2	64.0	58.8	52.3	47.0	44.4	43.1
52.5°	1857.8	1233.3	83.6	66.6	62.7	57.5	51.0	43.1	36.6	34.0	32.7
55°	1857.8	1119.7	74.5	61.4	56.2	52.3	43.1	35.3	28.7	24.8	23.5
57.5°	1830.4	982.5	66.6	54.9	49.6	44.4	36.6	27.4	20.9	17.0	17.0
60°	1754.6	838.8	57.5	48.3	43.1	36.6	28.7	19.6	13.1	9.1	9.1
62.5°	1657.9	667.6	49.6	40.5	35.3	30.0	22.2	13.1	5.2	2.6	2.6
65°	1489.4	492.5	43.1	34.0	27.4	22.2	14.4	5.2	0.0	0.0	0.0
67.5°	1229.4	329.2	34.0	27.4	23.5	15.7	9.1	1.3	0.0	0.0	0.0
70°	864.9	186.8	26.1	19.6	17.0	10.5	2.6	0.0	0.0	0.0	0.0
72.5°	355.4	82.3	18.3	14.4	11.8	5.2	0.0	0.0	0.0	0.0	0.0
75°	96.7	36.6	11.8	7.8	6.5	1.3	0.0	0.0	0.0	0.0	0.0
77.5°	56.2	24.8	5.2	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	44.4	11.8	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	44.4	6.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	37.9	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)