

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: P677164

Luminaire Tested: **CCW-SA-1E-760-U-SL4-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677164  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1E-760-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) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

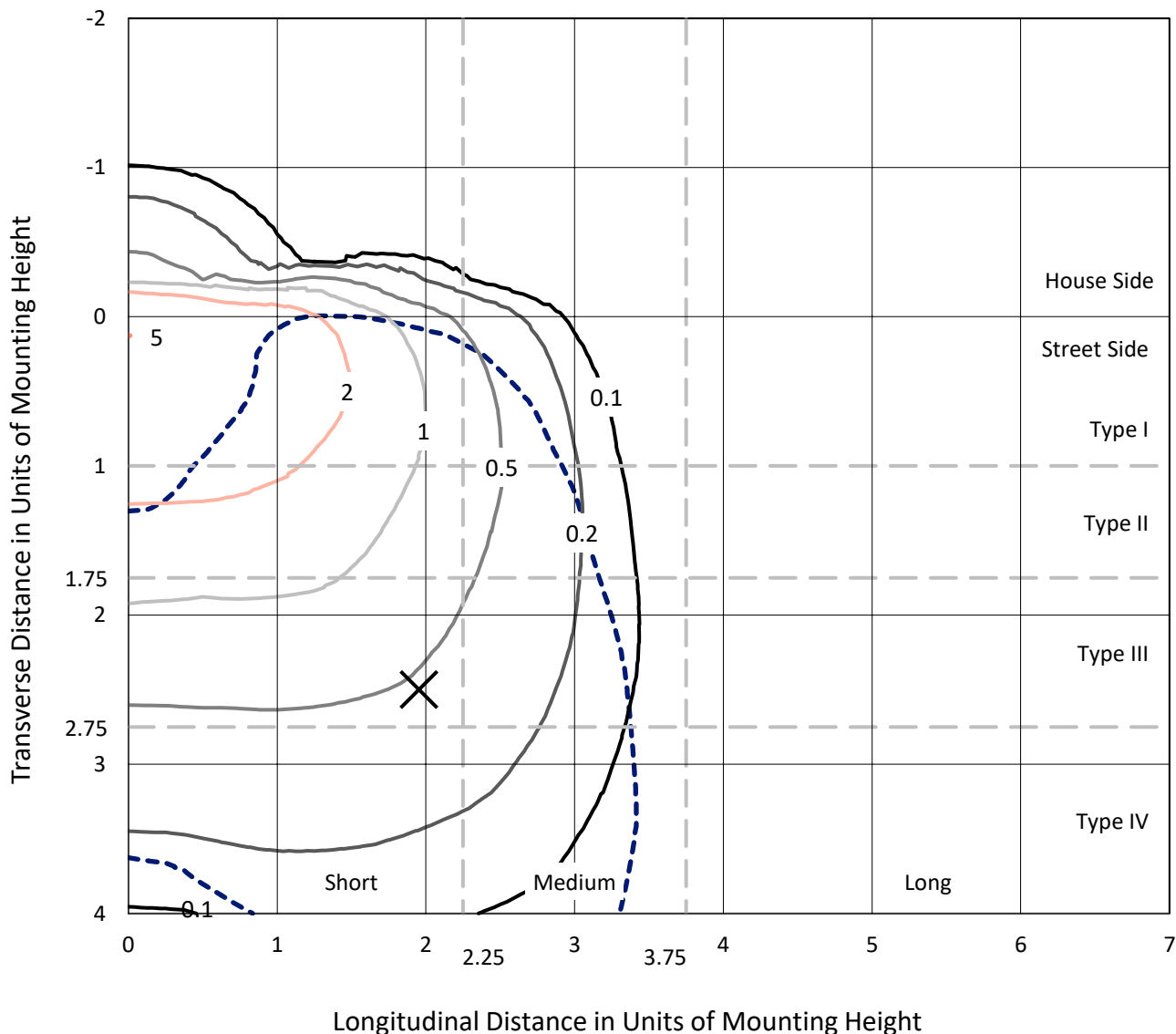
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5776.9 lumens  
Efficiency: N/A  
Efficacy: 103.0 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 (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

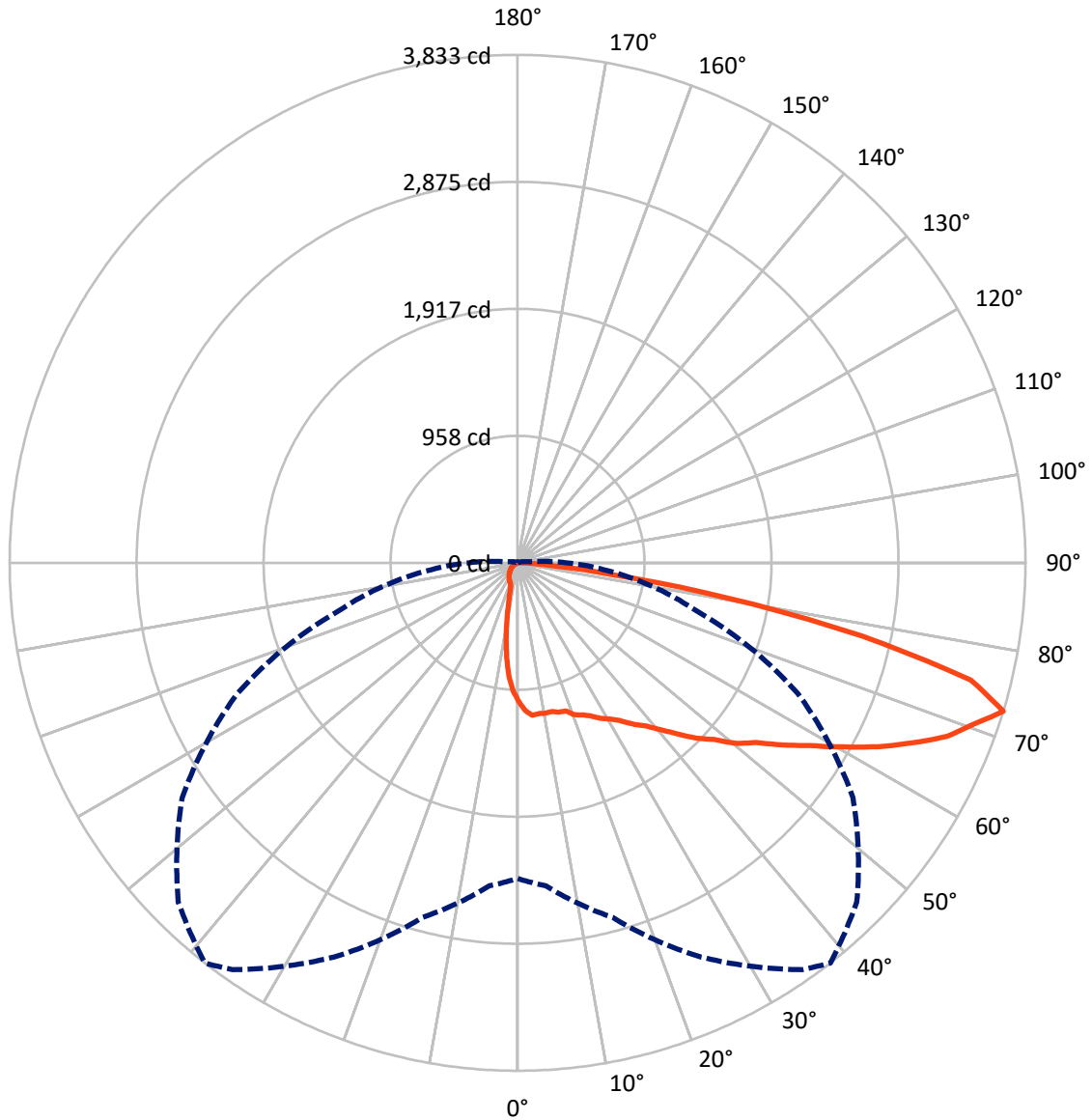
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5 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	483.8	0.0	483.8
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	5293.1	0.0	5293.1
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	5776.9	0.0	5776.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.4	1.6
10°-20°	223.9	3.9
20°-30°	358.9	6.2
30°-40°	541.9	9.4
40°-50°	824.7	14.3
50°-60°	1161.1	20.1
60°-70°	1418.3	24.6
70°-80°	1029.9	17.8
80°-90°	126.8	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°	5776.9	100.0
0°-180°	5776.9	100.0

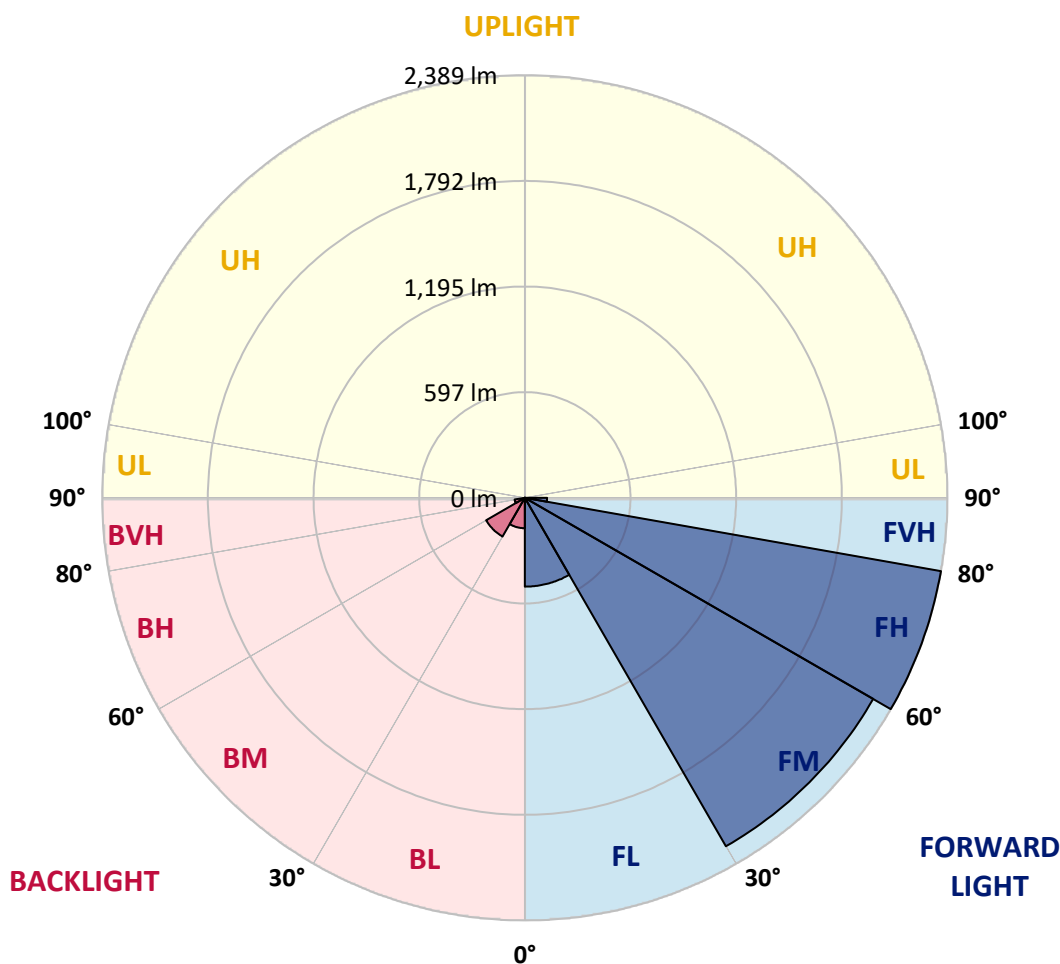


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	502.5	8.7			
FM (30°-60°)	2274.9	39.4			
FH (60°-80°)	2389.5	41.4			G2/5000
FVH (80°-90°)	126.2	2.2			G2/225
BL (0°-30°)	171.8	3.0	B1/500		
BM (30°-60°)	252.7	4.4	B1/1000		
BH (60°-80°)	58.7	1.0	B0/110		G0/110
BVH (80°-90°)	0.7	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°	1044.7	1044.7	1044.7	1044.7	1044.7	1044.7	1044.7	1044.7	1044.7	1044.7	1044.7
2.5°	1147.7	1147.7	1158.5	1147.7	1143.6	1117.9	1119.2	1105.7	1092.1	1073.1	1055.5
5°	1161.2	1170.7	1177.5	1168.0	1153.1	1155.8	1165.3	1139.5	1103.0	1079.9	1040.6
7.5°	1155.8	1176.1	1170.7	1165.3	1155.8	1149.0	1135.5	1124.6	1107.0	1085.3	1039.3
10°	1151.7	1158.5	1159.9	1155.8	1135.5	1154.4	1139.5	1121.9	1100.2	1074.5	1017.6
12.5°	1136.8	1136.8	1149.0	1139.5	1142.2	1151.7	1145.0	1140.9	1117.9	1096.2	1046.0
15°	1120.6	1126.0	1145.0	1159.9	1173.4	1169.3	1165.3	1153.1	1132.8	1108.4	1055.5
17.5°	1124.6	1127.3	1157.2	1184.3	1177.5	1174.8	1196.4	1170.7	1150.4	1123.3	1063.7
20°	1139.5	1147.7	1181.5	1216.8	1223.5	1223.5	1215.4	1200.5	1172.1	1135.5	1078.6
22.5°	1154.4	1157.2	1212.7	1257.4	1264.2	1246.6	1253.4	1210.0	1182.9	1162.6	1093.5
25°	1211.4	1205.9	1265.6	1300.8	1296.7	1279.1	1272.3	1234.4	1223.5	1187.0	1126.0
27.5°	1288.6	1265.6	1323.8	1345.5	1323.8	1329.2	1310.3	1269.6	1246.6	1224.9	1140.9
30°	1336.0	1349.6	1380.7	1402.4	1365.8	1367.2	1357.7	1313.0	1277.7	1283.2	1191.0
32.5°	1409.2	1418.7	1441.7	1451.2	1422.7	1420.0	1410.5	1375.3	1349.6	1344.1	1258.8
35°	1487.8	1505.4	1506.7	1509.4	1483.7	1494.5	1481.0	1430.9	1444.4	1453.9	1340.1
37.5°	1565.0	1548.7	1575.8	1588.0	1559.6	1559.6	1563.6	1529.8	1554.2	1582.6	1455.2
40°	1594.8	1601.6	1649.0	1639.5	1673.4	1653.1	1668.0	1659.8	1680.2	1745.2	1617.8
42.5°	1626.0	1634.1	1697.8	1715.4	1756.1	1762.8	1784.5	1785.9	1845.5	1952.5	1773.7
45°	1685.6	1672.0	1758.8	1802.1	1868.5	1887.5	1913.2	1934.9	2028.4	2154.4	1951.2
47.5°	1739.8	1720.8	1819.7	1906.5	1987.8	1991.8	2062.3	2085.3	2196.4	2340.0	2127.3
50°	1815.7	1822.4	1864.5	2013.5	2096.2	2143.6	2192.4	2268.2	2391.5	2544.7	2254.7
52.5°	1894.3	1887.5	1957.9	2104.3	2234.4	2252.0	2361.7	2447.1	2581.2	2696.4	2311.6
55°	1990.5	1998.6	2025.7	2218.1	2383.4	2425.4	2548.7	2638.1	2784.5	2761.4	2330.6
57.5°	2086.7	2078.5	2139.5	2345.5	2570.4	2601.6	2765.5	2818.4	2917.3	2804.8	2283.1
60°	2181.5	2196.4	2222.2	2489.1	2775.0	2821.1	2951.1	2978.2	2999.9	2825.1	2246.6
62.5°	2289.9	2254.7	2334.6	2640.9	2959.3	3055.5	3158.5	3051.4	3032.4	2788.5	2162.5
65°	2344.1	2355.0	2459.3	2814.3	3204.5	3275.0	3288.5	3150.3	3052.8	2707.2	2084.0
67.5°	2428.1	2443.0	2575.8	2991.8	3456.6	3495.8	3447.1	3239.8	3035.2	2601.6	1800.8
70°	2439.0	2475.5	2731.6	3177.4	3615.1	3649.0	3611.0	3299.4	2892.9	2185.6	1333.3
72.5°	2382.1	2447.1	2769.6	3283.1	3747.9	3833.2	3620.5	3089.4	2331.9	1394.3	682.9
75°	1799.4	1853.6	2535.2	3125.9	3512.1	3532.4	3178.8	2357.7	1327.9	475.6	174.8
77.5°	932.2	1025.7	1692.4	2388.8	2676.1	2654.4	2212.7	1388.9	456.6	124.7	70.5
80°	535.2	558.3	739.8	1341.4	1682.9	1600.2	1223.5	598.9	200.5	62.3	46.1
82.5°	264.2	296.7	398.4	600.3	841.4	692.4	459.3	359.1	112.5	33.9	40.6
85°	56.9	59.6	203.2	287.3	341.5	224.9	157.2	302.2	40.6	20.3	39.3
87.5°	40.6	39.3	56.9	128.7	94.8	58.3	93.5	158.5	9.5	9.5	8.1
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°	1044.7	1044.7	1044.7	1044.7	1044.7	1044.7	1044.7	1044.7	1044.7	1044.7	1044.7
2.5°	1044.7	1032.5	1018.9	993.2	986.4	982.4	959.3	958.0	953.9	944.4	940.4
5°	1016.2	995.9	970.2	943.1	921.4	882.1	834.7	810.3	780.5	781.8	772.3
7.5°	1012.2	974.2	937.6	880.7	811.6	738.5	665.3	617.9	584.0	563.7	567.7
10°	993.2	964.7	905.1	799.4	688.3	577.2	483.7	413.3	372.6	341.5	350.9
12.5°	1001.3	945.8	861.8	720.8	562.3	425.5	308.9	241.2	211.4	200.5	203.2
15°	995.9	945.8	836.0	635.5	441.7	288.6	200.5	178.9	173.4	173.4	170.7
17.5°	1012.2	956.6	792.7	551.5	317.1	192.4	172.1	168.0	164.0	164.0	164.0
20°	1035.2	962.0	762.9	458.0	223.6	169.4	161.2	158.5	157.2	157.2	155.8
22.5°	1036.6	956.6	707.3	355.0	172.1	159.9	153.1	151.8	151.8	149.0	149.0
25°	1044.7	962.0	647.7	266.9	159.9	150.4	145.0	143.6	145.0	143.6	142.3
27.5°	1065.0	971.5	588.1	195.1	150.4	142.3	138.2	136.9	136.9	136.9	134.1
30°	1090.8	971.5	521.7	161.2	142.3	134.1	130.1	128.7	127.4	127.4	127.4
32.5°	1145.0	1002.7	440.4	143.6	131.4	124.7	120.6	120.6	119.2	119.2	117.9
35°	1212.7	1024.4	357.7	132.8	121.9	115.2	111.1	111.1	109.8	109.8	108.4
37.5°	1296.7	1078.6	273.7	124.7	112.5	105.7	101.6	101.6	101.6	100.3	100.3
40°	1416.0	1134.1	203.2	113.8	103.0	96.2	93.5	92.1	90.8	90.8	88.1
42.5°	1543.3	1219.5	151.8	105.7	94.8	89.4	85.4	81.3	81.3	77.2	77.2
45°	1681.5	1294.0	123.3	96.2	86.7	79.9	75.9	73.2	69.1	66.4	66.4
47.5°	1817.0	1340.1	108.4	85.4	78.6	73.2	69.1	63.7	58.3	56.9	55.6
50°	1926.8	1353.6	96.2	77.2	71.8	66.4	61.0	54.2	48.8	46.1	44.7
52.5°	1926.8	1279.1	86.7	69.1	65.0	59.6	52.8	44.7	37.9	35.2	33.9
55°	1926.8	1161.2	77.2	63.7	58.3	54.2	44.7	36.6	29.8	25.7	24.4
57.5°	1898.3	1018.9	69.1	56.9	51.5	46.1	37.9	28.5	21.7	17.6	17.6
60°	1819.7	869.9	59.6	50.1	44.7	37.9	29.8	20.3	13.5	9.5	9.5
62.5°	1719.5	692.4	51.5	42.0	36.6	31.2	23.0	13.5	5.4	2.7	2.7
65°	1544.7	510.8	44.7	35.2	28.5	23.0	14.9	5.4	0.0	0.0	0.0
67.5°	1275.0	341.5	35.2	28.5	24.4	16.3	9.5	1.4	0.0	0.0	0.0
70°	897.0	193.8	27.1	20.3	17.6	10.8	2.7	0.0	0.0	0.0	0.0
72.5°	368.6	85.4	19.0	14.9	12.2	5.4	0.0	0.0	0.0	0.0	0.0
75°	100.3	37.9	12.2	8.1	6.8	1.4	0.0	0.0	0.0	0.0	0.0
77.5°	58.3	25.7	5.4	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	46.1	12.2	2.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	46.1	6.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	39.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.4	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)