

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: P677121

Luminaire Tested: **CCW-SA-1F-730-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677121
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-730-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/
SL4 distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

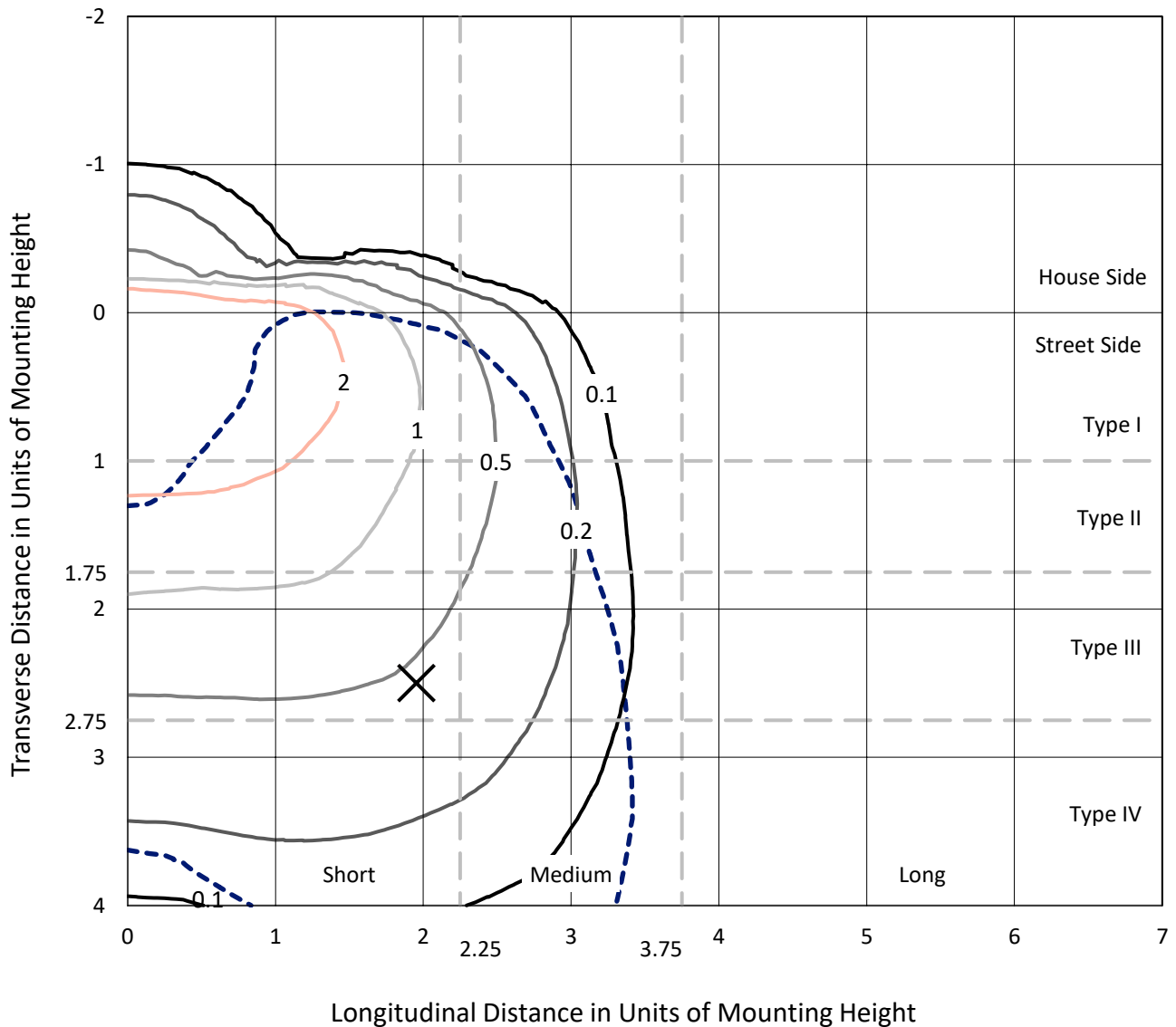
Lumens per Lamp: N/A
Luminaire Lumens: 5639.6 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
Input Voltage (V): 120
Input Current (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

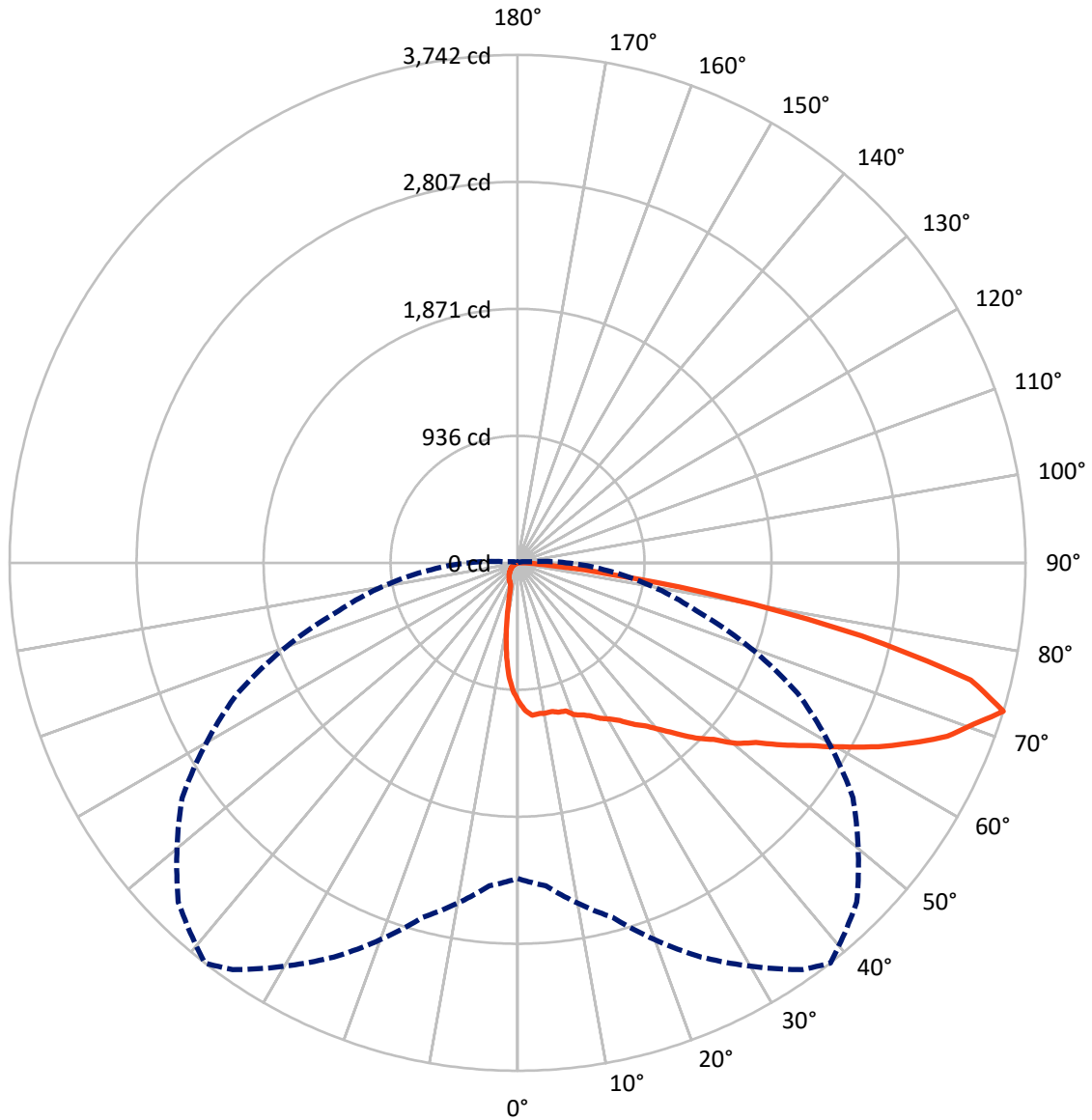
× Max cd
 - - - 1/2 Max cd



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	472.3	0.0	472.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	5167.3	0.0	5167.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	5639.6	0.0	5639.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.3	1.6
10°-20°	218.6	3.9
20°-30°	350.4	6.2
30°-40°	529.0	9.4
40°-50°	805.1	14.3
50°-60°	1133.5	20.1
60°-70°	1384.6	24.6
70°-80°	1005.4	17.8
80°-90°	123.8	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°	5639.6	100.0
0°-180°	5639.6	100.0

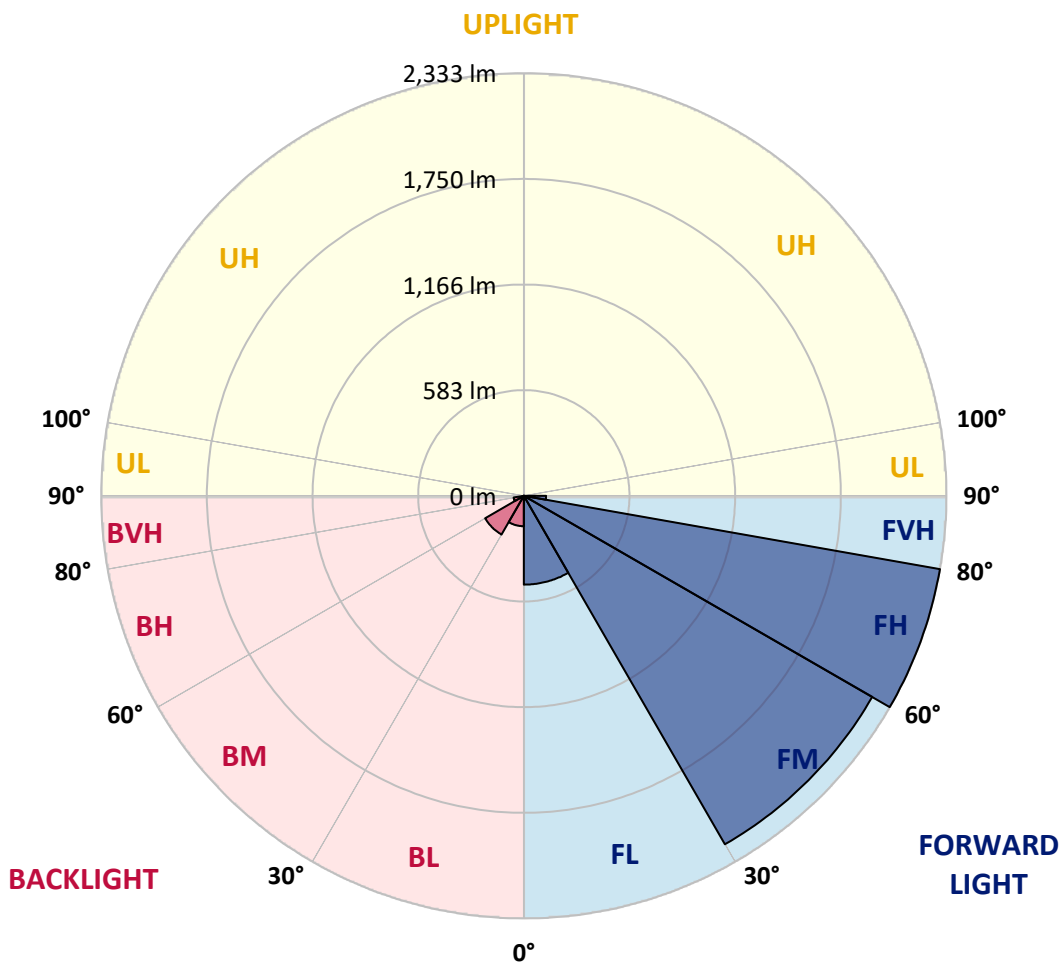


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	490.5	8.7			
FM (30°-60°)	2220.9	39.4			
FH (60°-80°)	2332.7	41.4			G2/5000
FVH (80°-90°)	123.2	2.2			G2/225
BL (0°-30°)	167.7	3.0	B1/500		
BM (30°-60°)	246.7	4.4	B1/1000		
BH (60°-80°)	57.3	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°	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9
2.5°	1120.4	1120.4	1131.0	1120.4	1116.4	1091.3	1092.6	1079.4	1066.2	1047.6	1030.4
5°	1133.6	1142.9	1149.5	1140.2	1125.7	1128.3	1137.6	1112.5	1076.7	1054.3	1015.9
7.5°	1128.3	1148.2	1142.9	1137.6	1128.3	1121.7	1108.5	1097.9	1080.7	1059.5	1014.6
10°	1124.4	1131.0	1132.3	1128.3	1108.5	1127.0	1112.5	1095.3	1074.1	1049.0	993.4
12.5°	1109.8	1109.8	1121.7	1112.5	1115.1	1124.4	1117.7	1113.8	1091.3	1070.1	1021.2
15°	1093.9	1099.2	1117.7	1132.3	1145.5	1141.6	1137.6	1125.7	1105.8	1082.0	1030.4
17.5°	1097.9	1100.5	1129.7	1156.1	1149.5	1146.8	1168.0	1142.9	1123.0	1096.6	1038.4
20°	1112.5	1120.4	1153.5	1187.9	1194.5	1194.5	1186.5	1172.0	1144.2	1108.5	1052.9
22.5°	1127.0	1129.7	1183.9	1227.5	1234.1	1217.0	1223.6	1181.2	1154.8	1134.9	1067.5
25°	1182.6	1177.3	1235.5	1269.9	1265.9	1248.7	1242.1	1205.0	1194.5	1158.8	1099.2
27.5°	1258.0	1235.5	1292.4	1313.5	1292.4	1297.6	1279.1	1239.4	1217.0	1195.8	1113.8
30°	1304.3	1317.5	1347.9	1369.1	1333.4	1334.7	1325.4	1281.8	1247.4	1252.7	1162.7
32.5°	1375.7	1384.9	1407.4	1416.7	1388.9	1386.3	1377.0	1342.6	1317.5	1312.2	1228.9
35°	1452.4	1469.6	1470.9	1473.6	1448.4	1459.0	1445.8	1396.9	1410.1	1419.3	1308.2
37.5°	1527.8	1511.9	1538.4	1550.3	1522.5	1522.5	1526.5	1493.4	1517.2	1545.0	1420.7
40°	1556.9	1563.5	1609.8	1600.6	1633.6	1613.8	1628.3	1620.4	1640.2	1703.7	1579.4
42.5°	1587.3	1595.3	1657.4	1674.6	1714.3	1720.9	1742.1	1743.4	1801.6	1906.1	1731.5
45°	1645.5	1632.3	1717.0	1759.3	1824.1	1842.6	1867.8	1888.9	1980.2	2103.2	1904.8
47.5°	1698.4	1679.9	1776.5	1861.1	1940.5	1944.5	2013.3	2035.8	2144.2	2284.4	2076.8
50°	1772.5	1779.1	1820.1	1965.6	2046.3	2092.6	2140.3	2214.3	2334.7	2484.2	2201.1
52.5°	1849.2	1842.6	1911.4	2054.3	2181.3	2198.5	2305.6	2388.9	2519.9	2632.3	2256.7
55°	1943.2	1951.1	1977.5	2165.4	2326.8	2367.8	2488.1	2575.4	2718.3	2695.8	2275.2
57.5°	2037.1	2029.1	2088.7	2289.7	2509.3	2539.7	2699.8	2751.4	2847.9	2738.1	2228.9
60°	2129.7	2144.2	2169.4	2429.9	2709.0	2754.0	2881.0	2907.5	2928.6	2758.0	2193.2
62.5°	2235.5	2201.1	2279.1	2578.1	2888.9	2982.9	3083.4	2978.9	2960.4	2722.3	2111.1
65°	2288.4	2299.0	2400.8	2747.4	3128.4	3197.1	3210.4	3075.5	2980.2	2642.9	2034.4
67.5°	2370.4	2385.0	2514.6	2920.7	3374.4	3412.8	3365.1	3162.8	2963.0	2539.7	1758.0
70°	2381.0	2416.7	2666.7	3101.9	3529.2	3562.2	3525.2	3221.0	2824.1	2133.6	1301.6
72.5°	2325.4	2388.9	2703.8	3205.1	3658.8	3742.1	3534.5	3015.9	2276.5	1361.1	666.7
75°	1756.6	1809.6	2474.9	3051.6	3428.6	3448.5	3103.2	2301.6	1296.3	464.3	170.6
77.5°	910.1	1001.3	1652.1	2332.1	2612.5	2591.3	2160.1	1355.8	445.8	121.7	68.8
80°	522.5	545.0	722.2	1309.5	1642.9	1562.2	1194.5	584.7	195.8	60.8	45.0
82.5°	257.9	289.7	388.9	586.0	821.4	675.9	448.4	350.5	109.8	33.1	39.7
85°	55.6	58.2	198.4	280.4	333.3	219.6	153.4	295.0	39.7	19.8	38.4
87.5°	39.7	38.4	55.6	125.7	92.6	56.9	91.3	154.8	9.3	9.3	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°	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9	1019.9
2.5°	1019.9	1008.0	994.7	969.6	963.0	959.0	936.5	935.2	931.2	922.0	918.0
5°	992.1	972.2	947.1	920.7	899.5	861.1	814.8	791.0	761.9	763.2	754.0
7.5°	988.1	951.1	915.4	859.8	792.3	720.9	649.5	603.2	570.1	550.3	554.2
10°	969.6	941.8	883.6	780.4	672.0	563.5	472.2	403.4	363.8	333.3	342.6
12.5°	977.5	923.3	841.3	703.7	549.0	415.4	301.6	235.5	206.4	195.8	198.4
15°	972.2	923.3	816.2	620.4	431.2	281.8	195.8	174.6	169.3	169.3	166.7
17.5°	988.1	933.9	773.8	538.4	309.5	187.8	168.0	164.0	160.1	160.1	160.1
20°	1010.6	939.2	744.7	447.1	218.3	165.3	157.4	154.8	153.4	153.4	152.1
22.5°	1011.9	933.9	690.5	346.6	168.0	156.1	149.5	148.2	148.2	145.5	145.5
25°	1019.9	939.2	632.3	260.6	156.1	146.8	141.5	140.2	141.5	140.2	138.9
27.5°	1039.7	948.4	574.1	190.5	146.8	138.9	134.9	133.6	133.6	133.6	131.0
30°	1064.8	948.4	509.3	157.4	138.9	131.0	127.0	125.7	124.3	124.3	124.3
32.5°	1117.7	978.9	429.9	140.2	128.3	121.7	117.7	117.7	116.4	116.4	115.1
35°	1183.9	1000.0	349.2	129.6	119.0	112.4	108.5	108.5	107.1	107.1	105.8
37.5°	1265.9	1052.9	267.2	121.7	109.8	103.2	99.2	99.2	99.2	97.9	97.9
40°	1382.3	1107.2	198.4	111.1	100.5	93.9	91.3	89.9	88.6	88.6	86.0
42.5°	1506.6	1190.5	148.2	103.2	92.6	87.3	83.3	79.4	79.4	75.4	75.4
45°	1641.6	1263.3	120.4	93.9	84.7	78.0	74.1	71.4	67.5	64.8	64.8
47.5°	1773.8	1308.2	105.8	83.3	76.7	71.4	67.5	62.2	56.9	55.6	54.2
50°	1881.0	1321.5	93.9	75.4	70.1	64.8	59.5	52.9	47.6	45.0	43.7
52.5°	1881.0	1248.7	84.7	67.5	63.5	58.2	51.6	43.7	37.0	34.4	33.1
55°	1881.0	1133.6	75.4	62.2	56.9	52.9	43.7	35.7	29.1	25.1	23.8
57.5°	1853.2	994.7	67.5	55.6	50.3	45.0	37.0	27.8	21.2	17.2	17.2
60°	1776.5	849.2	58.2	48.9	43.7	37.0	29.1	19.8	13.2	9.3	9.3
62.5°	1678.6	675.9	50.3	41.0	35.7	30.4	22.5	13.2	5.3	2.6	2.6
65°	1508.0	498.7	43.7	34.4	27.8	22.5	14.6	5.3	0.0	0.0	0.0
67.5°	1244.7	333.3	34.4	27.8	23.8	15.9	9.3	1.3	0.0	0.0	0.0
70°	875.7	189.2	26.5	19.8	17.2	10.6	2.6	0.0	0.0	0.0	0.0
72.5°	359.8	83.3	18.5	14.6	11.9	5.3	0.0	0.0	0.0	0.0	0.0
75°	97.9	37.0	11.9	7.9	6.6	1.3	0.0	0.0	0.0	0.0	0.0
77.5°	56.9	25.1	5.3	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	45.0	11.9	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	45.0	6.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	38.4	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)