

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: P677110

Luminaire Tested: **CCW-SA-1F-727-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677110
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-727-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) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5179.4 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

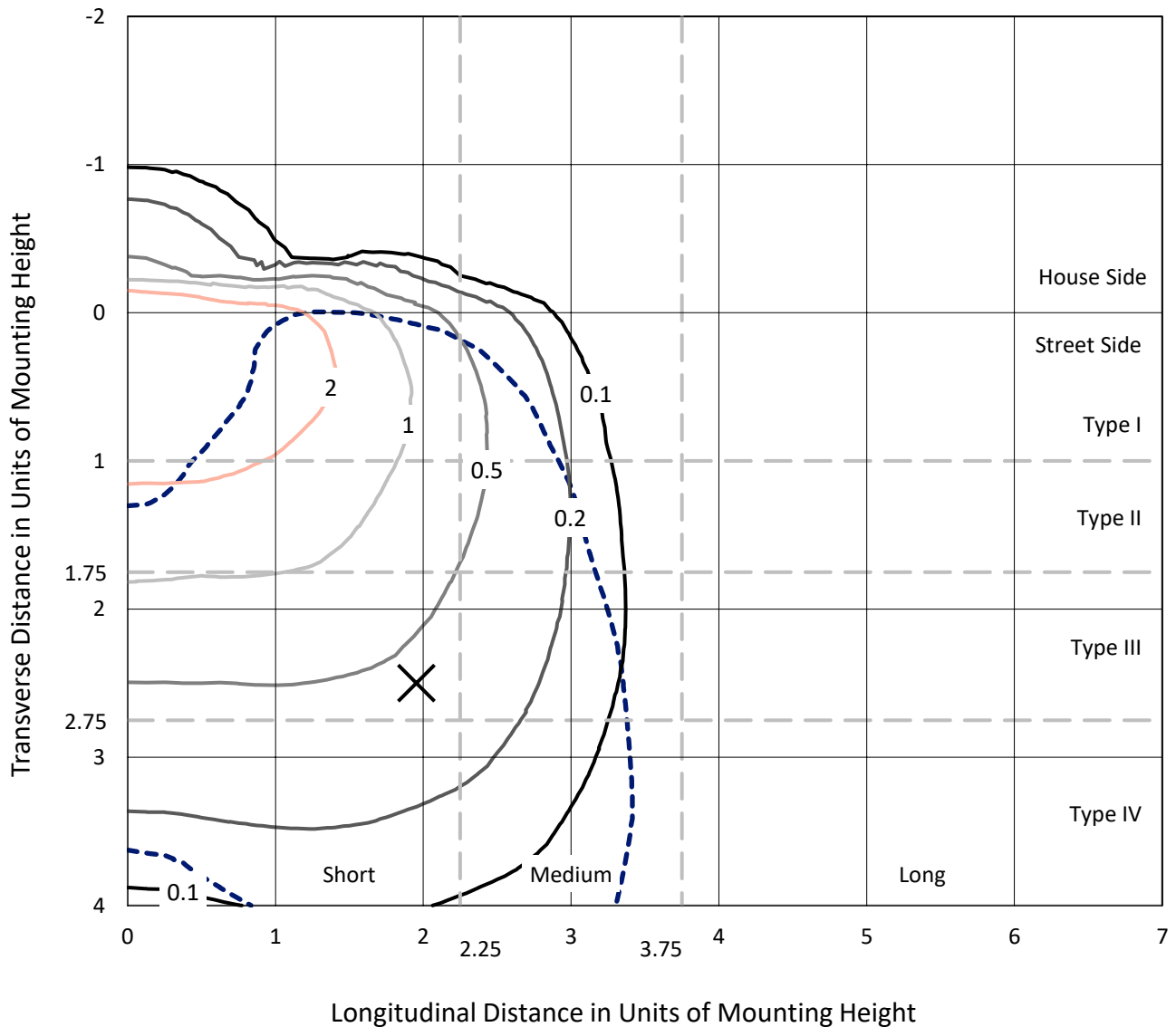
Input Watts (W): 67
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

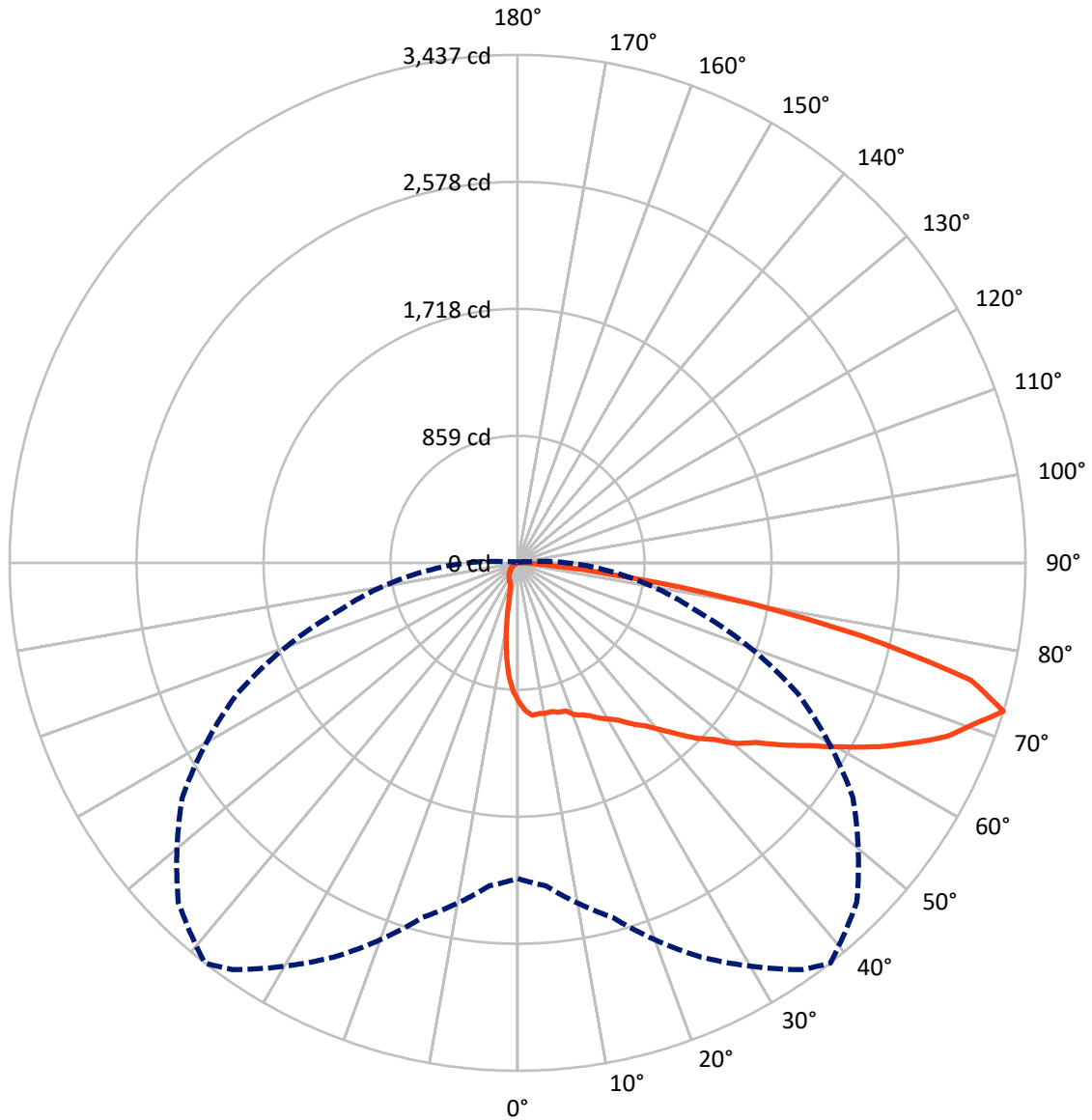
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.5 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
House Side	Lumens	433.8	0.0	433.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	4745.6	0.0	4745.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	5179.4	0.0	5179.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	1.6
10°-20°	200.7	3.9
20°-30°	321.8	6.2
30°-40°	485.8	9.4
40°-50°	739.4	14.3
50°-60°	1041.0	20.1
60°-70°	1271.6	24.6
70°-80°	923.4	17.8
80°-90°	113.7	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°	5179.4	100.0
0°-180°	5179.4	100.0



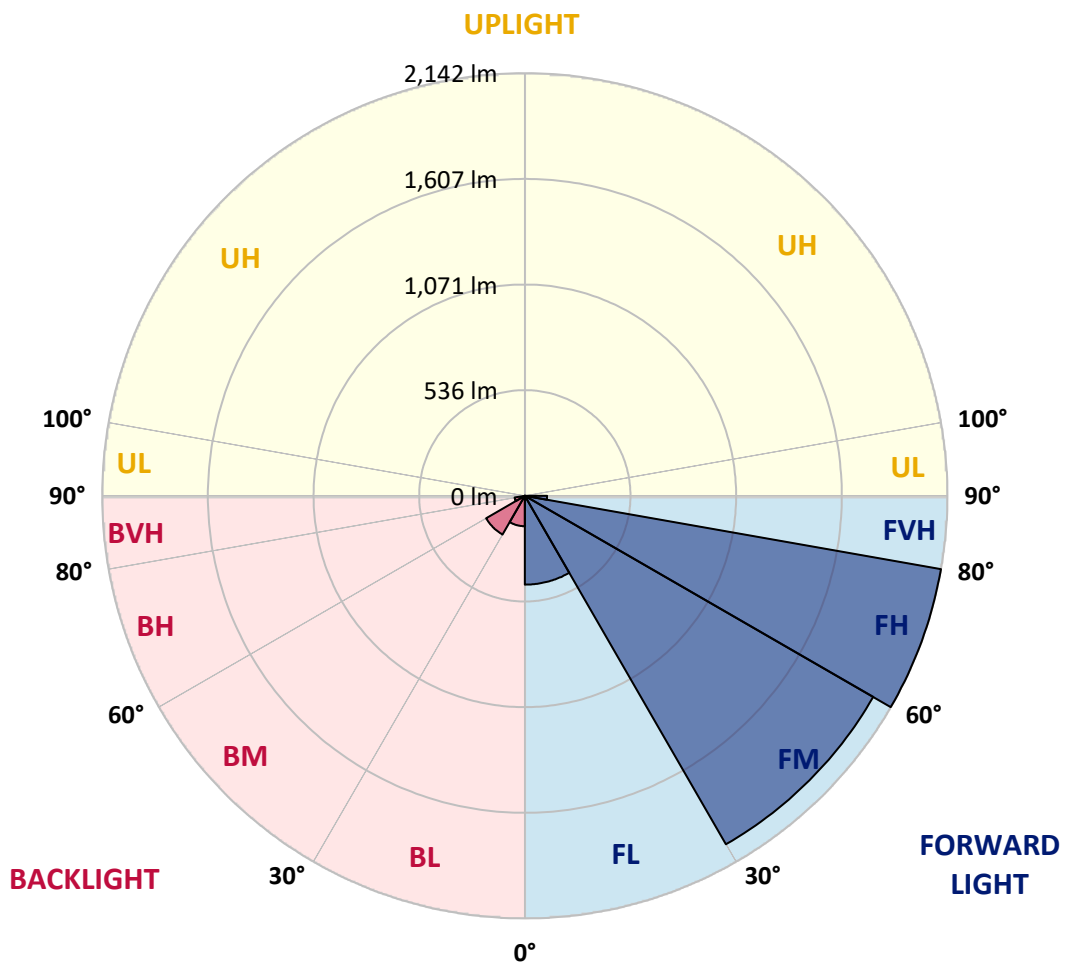
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	450.5	8.7			
FM (30°-60°)	2039.7	39.4			
FH (60°-80°)	2142.4	41.4			G2/5000
FVH (80°-90°)	113.1	2.2			G2/225
BL (0°-30°)	154.0	3.0	B1/500		
BM (30°-60°)	226.6	4.4	B1/1000		
BH (60°-80°)	52.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	936.6	936.6	936.6	936.6	936.6	936.6	936.6	936.6	936.6	936.6	936.6
2.5°	1029.0	1029.0	1038.7	1029.0	1025.3	1002.2	1003.5	991.3	979.2	962.2	946.4
5°	1041.1	1049.6	1055.7	1047.2	1033.8	1036.3	1044.8	1021.7	988.9	968.2	933.0
7.5°	1036.3	1054.5	1049.6	1044.8	1036.3	1030.2	1018.0	1008.3	992.5	973.1	931.8
10°	1032.6	1038.7	1039.9	1036.3	1018.0	1035.0	1021.7	1005.9	986.5	963.4	912.3
12.5°	1019.3	1019.3	1030.2	1021.7	1024.1	1032.6	1026.5	1022.9	1002.2	982.8	937.9
15°	1004.7	1009.5	1026.5	1039.9	1052.1	1048.4	1044.8	1033.8	1015.6	993.7	946.4
17.5°	1008.3	1010.8	1037.5	1061.8	1055.7	1053.3	1072.7	1049.6	1031.4	1007.1	953.7
20°	1021.7	1029.0	1059.3	1090.9	1097.0	1097.0	1089.7	1076.4	1050.8	1018.0	967.0
22.5°	1035.0	1037.5	1087.3	1127.4	1133.4	1117.7	1123.7	1084.9	1060.6	1042.3	980.4
25°	1086.1	1081.2	1134.7	1166.3	1162.6	1146.8	1140.7	1106.7	1097.0	1064.2	1009.5
27.5°	1155.3	1134.7	1186.9	1206.3	1186.9	1191.8	1174.8	1138.3	1117.7	1098.2	1022.9
30°	1197.8	1210.0	1237.9	1257.4	1224.6	1225.8	1217.3	1177.2	1145.6	1150.5	1067.8
32.5°	1263.4	1271.9	1292.6	1301.1	1275.6	1273.2	1264.7	1233.1	1210.0	1205.1	1128.6
35°	1333.9	1349.7	1350.9	1353.3	1330.3	1340.0	1327.8	1282.9	1295.0	1303.5	1201.5
37.5°	1403.1	1388.6	1412.9	1423.8	1398.3	1398.3	1401.9	1371.6	1393.4	1418.9	1304.7
40°	1429.9	1435.9	1478.5	1470.0	1500.3	1482.1	1495.5	1488.2	1506.4	1564.7	1450.5
42.5°	1457.8	1465.1	1522.2	1538.0	1574.4	1580.5	1599.9	1601.2	1654.6	1750.6	1590.2
45°	1511.3	1499.1	1576.9	1615.7	1675.3	1692.3	1715.4	1734.8	1818.6	1931.6	1749.4
47.5°	1559.9	1542.9	1631.5	1709.3	1782.2	1785.8	1849.0	1869.6	1969.3	2098.0	1907.3
50°	1627.9	1634.0	1671.6	1805.3	1879.4	1921.9	1965.6	2033.6	2144.2	2281.5	2021.5
52.5°	1698.4	1692.3	1755.5	1886.7	2003.3	2019.1	2117.5	2194.0	2314.3	2417.5	2072.5
55°	1784.6	1791.9	1816.2	1988.7	2136.9	2174.6	2285.1	2365.3	2496.5	2475.9	2089.5
57.5°	1870.9	1863.6	1918.2	2102.9	2304.6	2332.5	2479.5	2526.9	2615.6	2514.7	2047.0
60°	1955.9	1969.3	1992.3	2231.7	2488.0	2529.3	2645.9	2670.2	2689.7	2533.0	2014.2
62.5°	2053.1	2021.5	2093.2	2367.7	2653.2	2739.5	2831.8	2735.8	2718.8	2500.1	1938.9
65°	2101.7	2111.4	2204.9	2523.2	2873.1	2936.3	2948.4	2824.5	2737.0	2427.3	1868.4
67.5°	2177.0	2190.4	2309.4	2682.4	3099.1	3134.3	3090.6	2904.7	2721.3	2332.5	1614.5
70°	2186.7	2219.5	2449.1	2848.8	3241.2	3271.6	3237.6	2958.1	2593.7	1959.5	1195.4
72.5°	2135.7	2194.0	2483.1	2943.6	3360.3	3436.8	3246.1	2769.8	2090.7	1250.1	612.3
75°	1613.3	1661.9	2273.0	2802.6	3148.9	3167.1	2850.0	2113.8	1190.5	426.4	156.7
77.5°	835.8	919.6	1517.3	2141.8	2399.3	2379.9	1983.8	1245.2	409.4	111.8	63.2
80°	479.9	500.5	663.3	1202.7	1508.8	1434.7	1097.0	537.0	179.8	55.9	41.3
82.5°	236.9	266.1	357.2	538.2	754.4	620.8	411.8	321.9	100.8	30.4	36.4
85°	51.0	53.5	182.2	257.5	306.1	201.7	140.9	270.9	36.4	18.2	35.2
87.5°	36.4	35.2	51.0	115.4	85.0	52.2	83.8	142.1	8.5	8.5	7.3
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°	936.6	936.6	936.6	936.6	936.6	936.6	936.6	936.6	936.6	936.6	936.6
2.5°	936.6	925.7	913.6	890.5	884.4	880.8	860.1	858.9	855.3	846.7	843.1
5°	911.1	892.9	869.8	845.5	826.1	790.9	748.3	726.5	699.8	701.0	692.5
7.5°	907.5	873.5	840.7	789.6	727.7	662.1	596.5	554.0	523.6	505.4	509.0
10°	890.5	865.0	811.5	716.8	617.1	517.5	433.7	370.5	334.1	306.1	314.6
12.5°	897.8	848.0	772.6	646.3	504.2	381.5	277.0	216.2	189.5	179.8	182.2
15°	892.9	848.0	749.6	569.8	396.0	258.8	179.8	160.4	155.5	155.5	153.1
17.5°	907.5	857.7	710.7	494.4	284.3	172.5	154.3	150.6	147.0	147.0	147.0
20°	928.1	862.5	684.0	410.6	200.4	151.9	144.6	142.1	140.9	140.9	139.7
22.5°	929.4	857.7	634.1	318.3	154.3	143.4	137.3	136.1	136.1	133.6	133.6
25°	936.6	862.5	580.7	239.3	143.4	134.8	130.0	128.8	130.0	128.8	127.6
27.5°	954.9	871.0	527.2	174.9	134.8	127.6	123.9	122.7	122.7	122.7	120.3
30°	977.9	871.0	467.7	144.6	127.6	120.3	116.6	115.4	114.2	114.2	114.2
32.5°	1026.5	899.0	394.8	128.8	117.8	111.8	108.1	108.1	106.9	106.9	105.7
35°	1087.3	918.4	320.7	119.1	109.3	103.3	99.6	99.6	98.4	98.4	97.2
37.5°	1162.6	967.0	245.4	111.8	100.8	94.8	91.1	91.1	91.1	89.9	89.9
40°	1269.5	1016.8	182.2	102.0	92.3	86.3	83.8	82.6	81.4	81.4	79.0
42.5°	1383.7	1093.4	136.1	94.8	85.0	80.2	76.5	72.9	72.9	69.2	69.2
45°	1507.6	1160.2	110.6	86.3	77.8	71.7	68.0	65.6	62.0	59.5	59.5
47.5°	1629.1	1201.5	97.2	76.5	70.5	65.6	62.0	57.1	52.2	51.0	49.8
50°	1727.5	1213.6	86.3	69.2	64.4	59.5	54.7	48.6	43.7	41.3	40.1
52.5°	1727.5	1146.8	77.8	62.0	58.3	53.5	47.4	40.1	34.0	31.6	30.4
55°	1727.5	1041.1	69.2	57.1	52.2	48.6	40.1	32.8	26.7	23.1	21.9
57.5°	1702.0	913.6	62.0	51.0	46.2	41.3	34.0	25.5	19.4	15.8	15.8
60°	1631.5	779.9	53.5	44.9	40.1	34.0	26.7	18.2	12.1	8.5	8.5
62.5°	1541.6	620.8	46.2	37.7	32.8	27.9	20.7	12.1	4.9	2.4	2.4
65°	1384.9	458.0	40.1	31.6	25.5	20.7	13.4	4.9	0.0	0.0	0.0
67.5°	1143.2	306.1	31.6	25.5	21.9	14.6	8.5	1.2	0.0	0.0	0.0
70°	804.2	173.7	24.3	18.2	15.8	9.7	2.4	0.0	0.0	0.0	0.0
72.5°	330.4	76.5	17.0	13.4	10.9	4.9	0.0	0.0	0.0	0.0	0.0
75°	89.9	34.0	10.9	7.3	6.1	1.2	0.0	0.0	0.0	0.0	0.0
77.5°	52.2	23.1	4.9	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	41.3	10.9	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	41.3	6.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	35.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	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)