

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: P677218

Luminaire Tested: **CCW-SA-1D-850-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677218
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-850-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
SL4 distribution lens and House Side Shield
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

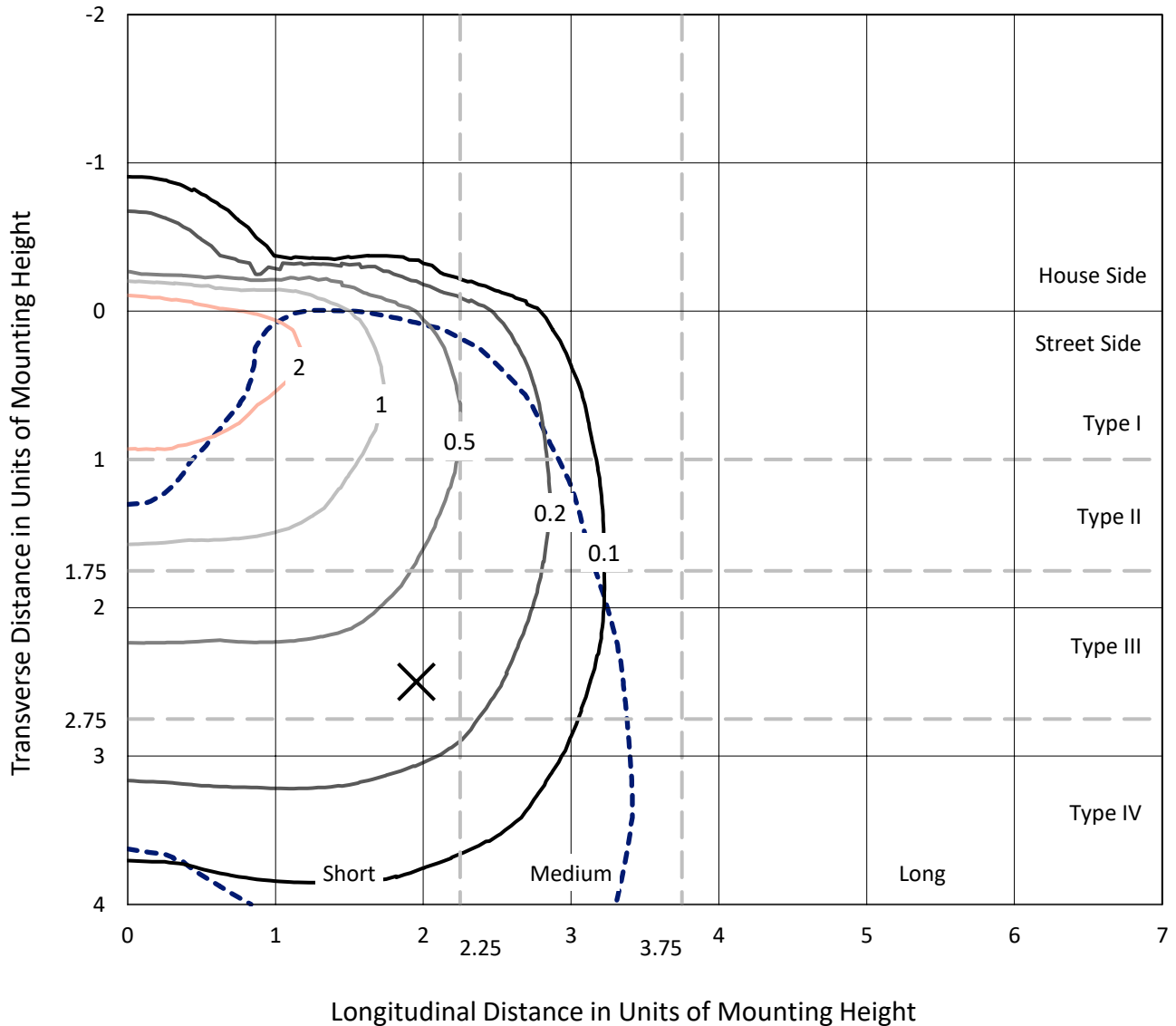
Lumens per Lamp: N/A
Luminaire Lumens: 4019.8 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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

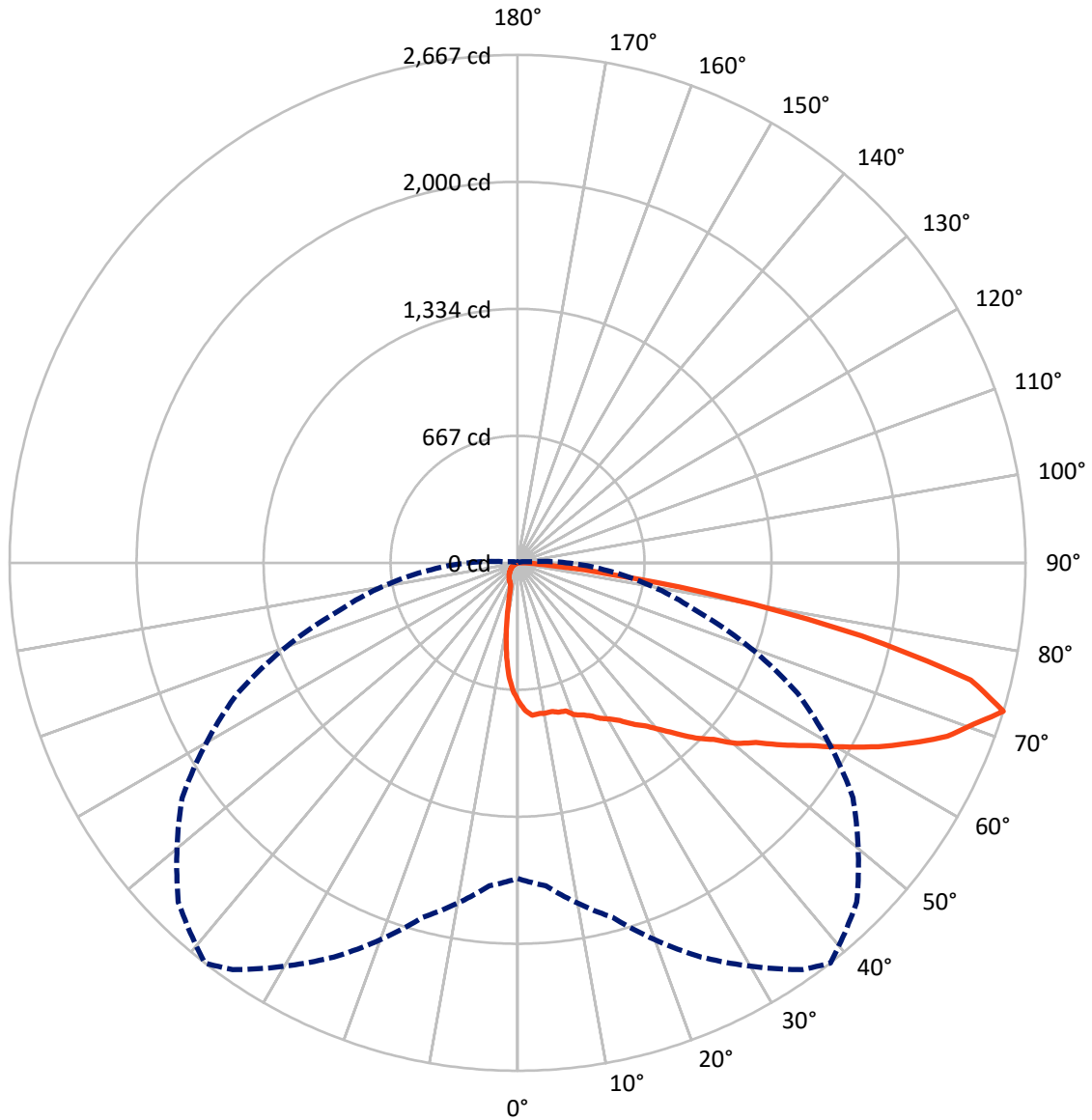
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.5 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	336.7	0.0	336.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	3683.1	0.0	3683.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	4019.8	0.0	4019.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.6	1.6
10°-20°	155.8	3.9
20°-30°	249.7	6.2
30°-40°	377.1	9.4
40°-50°	573.9	14.3
50°-60°	807.9	20.1
60°-70°	986.9	24.6
70°-80°	716.6	17.8
80°-90°	88.3	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°	4019.8	100.0
0°-180°	4019.8	100.0

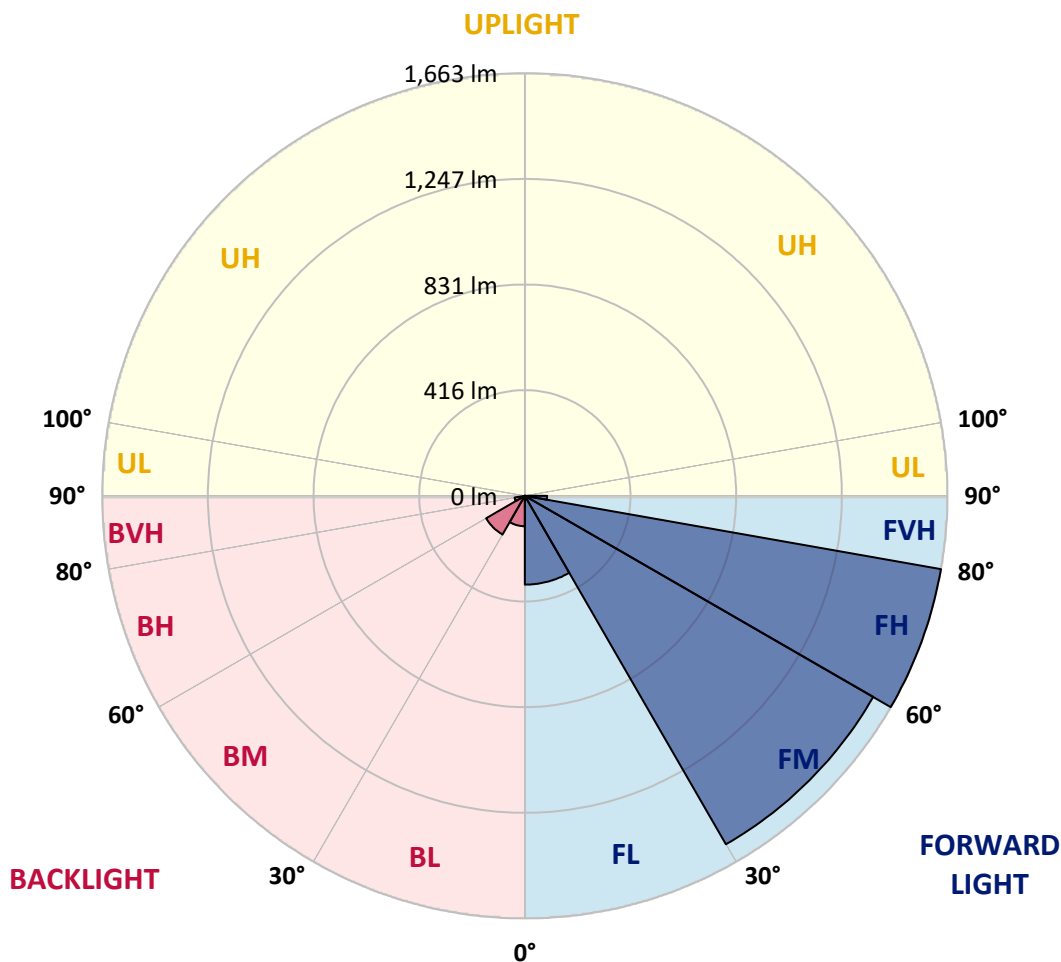


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	349.6	8.7			
FM (30°-60°)	1583.0	39.4			
FH (60°-80°)	1662.7	41.4			G1/1800
FVH (80°-90°)	87.8	2.2			G1/100
BL (0°-30°)	119.5	3.0	B1/500		
BM (30°-60°)	175.9	4.4	B0/220		
BH (60°-80°)	40.8	1.0	B0/110		G0/110
BVH (80°-90°)	0.5	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-G1
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	726.9	726.9	726.9	726.9	726.9	726.9	726.9	726.9	726.9	726.9	726.9
2.5°	798.6	798.6	806.1	798.6	795.8	777.8	778.8	769.4	759.9	746.7	734.5
5°	808.0	814.6	819.3	812.7	802.4	804.2	810.8	792.9	767.5	751.4	724.1
7.5°	804.2	818.4	814.6	810.8	804.2	799.5	790.1	782.6	770.3	755.2	723.2
10°	801.4	806.1	807.1	804.2	790.1	803.3	792.9	780.7	765.6	747.7	708.1
12.5°	791.0	791.0	799.5	792.9	794.8	801.4	796.7	793.9	777.8	762.8	727.9
15°	779.7	783.5	796.7	807.1	816.5	813.7	810.8	802.4	788.2	771.2	734.5
17.5°	782.6	784.4	805.2	824.0	819.3	817.4	832.5	814.6	800.5	781.6	740.1
20°	792.9	798.6	822.2	846.7	851.4	851.4	845.7	835.4	815.6	790.1	750.5
22.5°	803.3	805.2	843.8	875.0	879.7	867.4	872.1	842.0	823.1	809.0	760.9
25°	842.9	839.1	880.6	905.1	902.3	890.0	885.3	858.9	851.4	825.9	783.5
27.5°	896.6	880.6	921.2	936.2	921.2	924.9	911.7	883.4	867.4	852.3	793.9
30°	929.6	939.1	960.8	975.8	950.4	951.3	944.7	913.6	889.1	892.9	828.8
32.5°	980.6	987.2	1003.2	1009.8	990.0	988.1	981.5	957.0	939.1	935.3	875.9
35°	1035.2	1047.5	1048.4	1050.3	1032.4	1040.0	1030.5	995.6	1005.1	1011.7	932.5
37.5°	1089.0	1077.7	1096.5	1105.0	1085.2	1085.2	1088.0	1064.5	1081.4	1101.2	1012.6
40°	1109.7	1114.4	1147.4	1140.8	1164.4	1150.3	1160.6	1155.0	1169.1	1214.4	1125.8
42.5°	1131.4	1137.1	1181.4	1193.6	1221.9	1226.6	1241.7	1242.7	1284.2	1358.6	1234.2
45°	1172.9	1163.5	1223.8	1254.0	1300.2	1313.4	1331.3	1346.4	1411.4	1499.1	1357.7
47.5°	1210.6	1197.4	1266.2	1326.6	1383.2	1386.0	1435.0	1451.0	1528.3	1628.3	1480.3
50°	1263.4	1268.1	1297.4	1401.1	1458.6	1491.6	1525.5	1578.3	1664.1	1770.7	1568.9
52.5°	1318.1	1313.4	1362.4	1464.2	1554.7	1567.0	1643.4	1702.8	1796.1	1876.3	1608.5
55°	1385.0	1390.7	1409.5	1543.4	1658.5	1687.7	1773.5	1835.7	1937.5	1921.5	1621.7
57.5°	1452.0	1446.3	1488.7	1632.1	1788.6	1810.3	1924.3	1961.1	2029.9	1951.7	1588.7
60°	1518.0	1528.3	1546.3	1732.0	1930.9	1963.0	2053.5	2072.4	2087.5	1965.8	1563.2
62.5°	1593.4	1568.9	1624.5	1837.6	2059.2	2126.1	2197.8	2123.3	2110.1	1940.4	1504.8
65°	1631.1	1638.7	1711.3	1958.3	2229.8	2278.9	2288.3	2192.1	2124.2	1883.8	1450.1
67.5°	1689.6	1699.9	1792.3	2081.8	2405.2	2432.5	2398.6	2254.3	2112.0	1810.3	1253.0
70°	1697.1	1722.6	1900.8	2211.0	2515.5	2539.1	2512.7	2295.8	2013.0	1520.8	927.8
72.5°	1657.5	1702.8	1927.2	2284.5	2607.9	2667.3	2519.3	2149.7	1622.6	970.2	475.2
75°	1252.1	1289.8	1764.1	2175.1	2443.8	2458.0	2211.9	1640.5	924.0	330.9	121.6
77.5°	648.7	713.7	1177.6	1662.2	1862.1	1847.0	1539.7	966.4	317.7	86.7	49.0
80°	372.4	388.5	514.8	933.4	1171.0	1113.5	851.4	416.7	139.5	43.4	32.1
82.5°	183.9	206.5	277.2	417.7	585.5	481.8	319.6	249.9	78.3	23.6	28.3
85°	39.6	41.5	141.4	199.9	237.6	156.5	109.4	210.3	28.3	14.1	27.3
87.5°	28.3	27.3	39.6	89.6	66.0	40.5	65.1	110.3	6.6	6.6	5.7
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°	726.9	726.9	726.9	726.9	726.9	726.9	726.9	726.9	726.9	726.9	726.9
2.5°	726.9	718.4	709.0	691.1	686.4	683.6	667.5	666.6	663.8	657.2	654.3
5°	707.1	693.0	675.1	656.2	641.1	613.8	580.8	563.8	543.1	544.0	537.4
7.5°	704.3	677.9	652.4	612.8	564.8	513.8	462.9	429.9	406.4	392.2	395.1
10°	691.1	671.3	629.8	556.3	479.0	401.7	336.6	287.6	259.3	237.6	244.2
12.5°	696.8	658.1	599.6	501.6	391.3	296.1	215.0	167.8	147.1	139.5	141.4
15°	693.0	658.1	581.7	442.2	307.4	200.8	139.5	124.5	120.7	120.7	118.8
17.5°	704.3	665.6	551.6	383.7	220.6	133.9	119.7	116.9	114.1	114.1	114.1
20°	720.3	669.4	530.8	318.7	155.6	117.9	112.2	110.3	109.4	109.4	108.4
22.5°	721.3	665.6	492.2	247.0	119.7	111.3	106.5	105.6	105.6	103.7	103.7
25°	726.9	669.4	450.7	185.7	111.3	104.7	100.9	99.9	100.9	99.9	99.0
27.5°	741.1	676.0	409.2	135.8	104.7	99.0	96.2	95.2	95.2	95.2	93.3
30°	759.0	676.0	363.0	112.2	99.0	93.3	90.5	89.6	88.6	88.6	88.6
32.5°	796.7	697.7	306.4	99.9	91.5	86.7	83.9	83.9	83.0	83.0	82.0
35°	843.8	712.8	248.9	92.4	84.9	80.1	77.3	77.3	76.4	76.4	75.4
37.5°	902.3	750.5	190.5	86.7	78.3	73.5	70.7	70.7	70.7	69.8	69.8
40°	985.3	789.2	141.4	79.2	71.7	66.9	65.1	64.1	63.2	63.2	61.3
42.5°	1073.9	848.6	105.6	73.5	66.0	62.2	59.4	56.6	56.6	53.7	53.7
45°	1170.1	900.4	85.8	66.9	60.3	55.6	52.8	50.9	48.1	46.2	46.2
47.5°	1264.4	932.5	75.4	59.4	54.7	50.9	48.1	44.3	40.5	39.6	38.7
50°	1340.7	941.9	66.9	53.7	50.0	46.2	42.4	37.7	33.9	32.1	31.1
52.5°	1340.7	890.0	60.3	48.1	45.3	41.5	36.8	31.1	26.4	24.5	23.6
55°	1340.7	808.0	53.7	44.3	40.5	37.7	31.1	25.5	20.7	17.9	17.0
57.5°	1320.9	709.0	48.1	39.6	35.8	32.1	26.4	19.8	15.1	12.3	12.3
60°	1266.2	605.3	41.5	34.9	31.1	26.4	20.7	14.1	9.4	6.6	6.6
62.5°	1196.5	481.8	35.8	29.2	25.5	21.7	16.0	9.4	3.8	1.9	1.9
65°	1074.8	355.5	31.1	24.5	19.8	16.0	10.4	3.8	0.0	0.0	0.0
67.5°	887.2	237.6	24.5	19.8	17.0	11.3	6.6	0.9	0.0	0.0	0.0
70°	624.2	134.8	18.9	14.1	12.3	7.5	1.9	0.0	0.0	0.0	0.0
72.5°	256.5	59.4	13.2	10.4	8.5	3.8	0.0	0.0	0.0	0.0	0.0
75°	69.8	26.4	8.5	5.7	4.7	0.9	0.0	0.0	0.0	0.0	0.0
77.5°	40.5	17.9	3.8	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	32.1	8.5	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	32.1	4.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	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)