

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: P677108

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677108
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-727-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) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

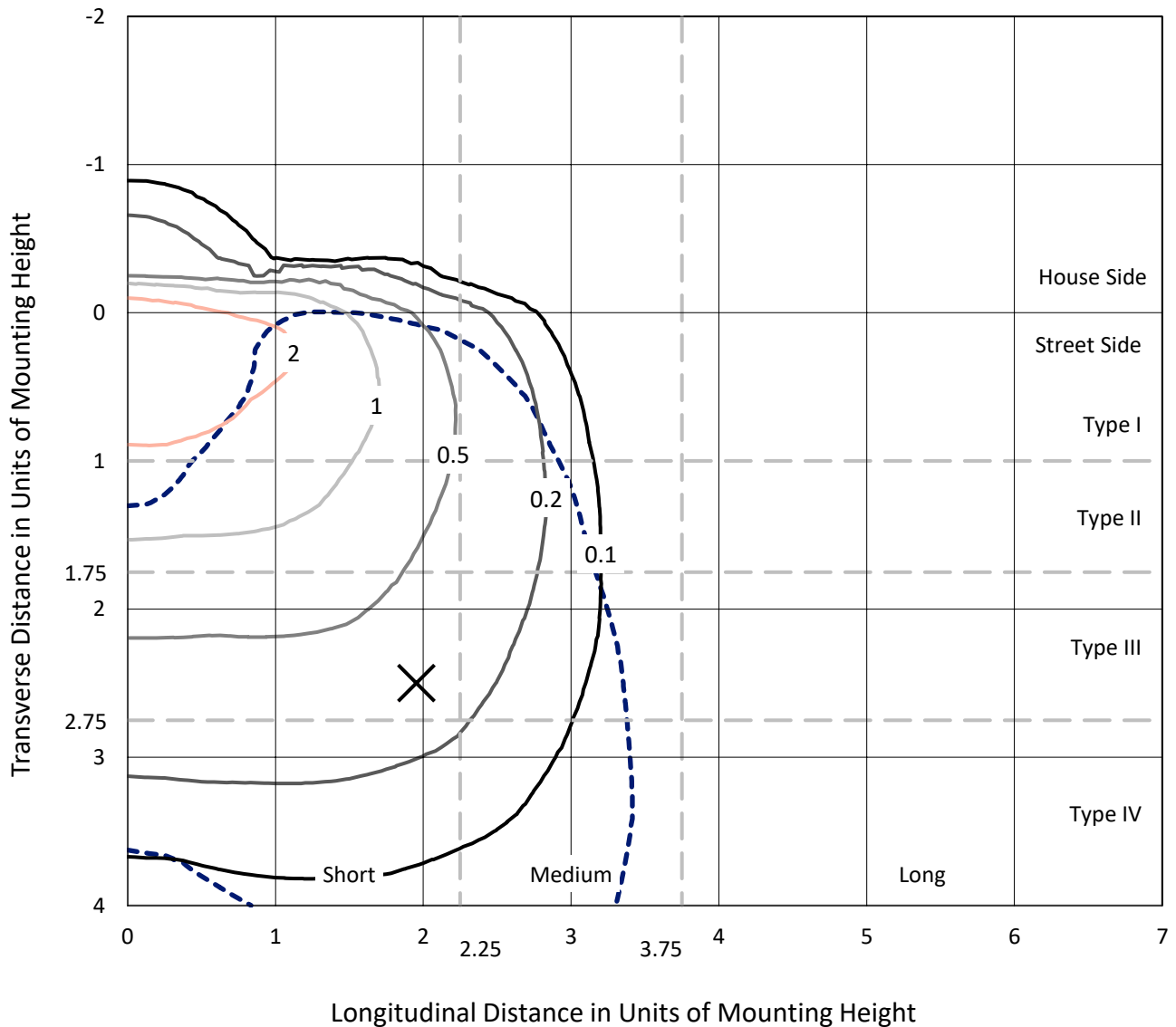
Lumens per Lamp: N/A
Luminaire Lumens: 3852.5 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

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

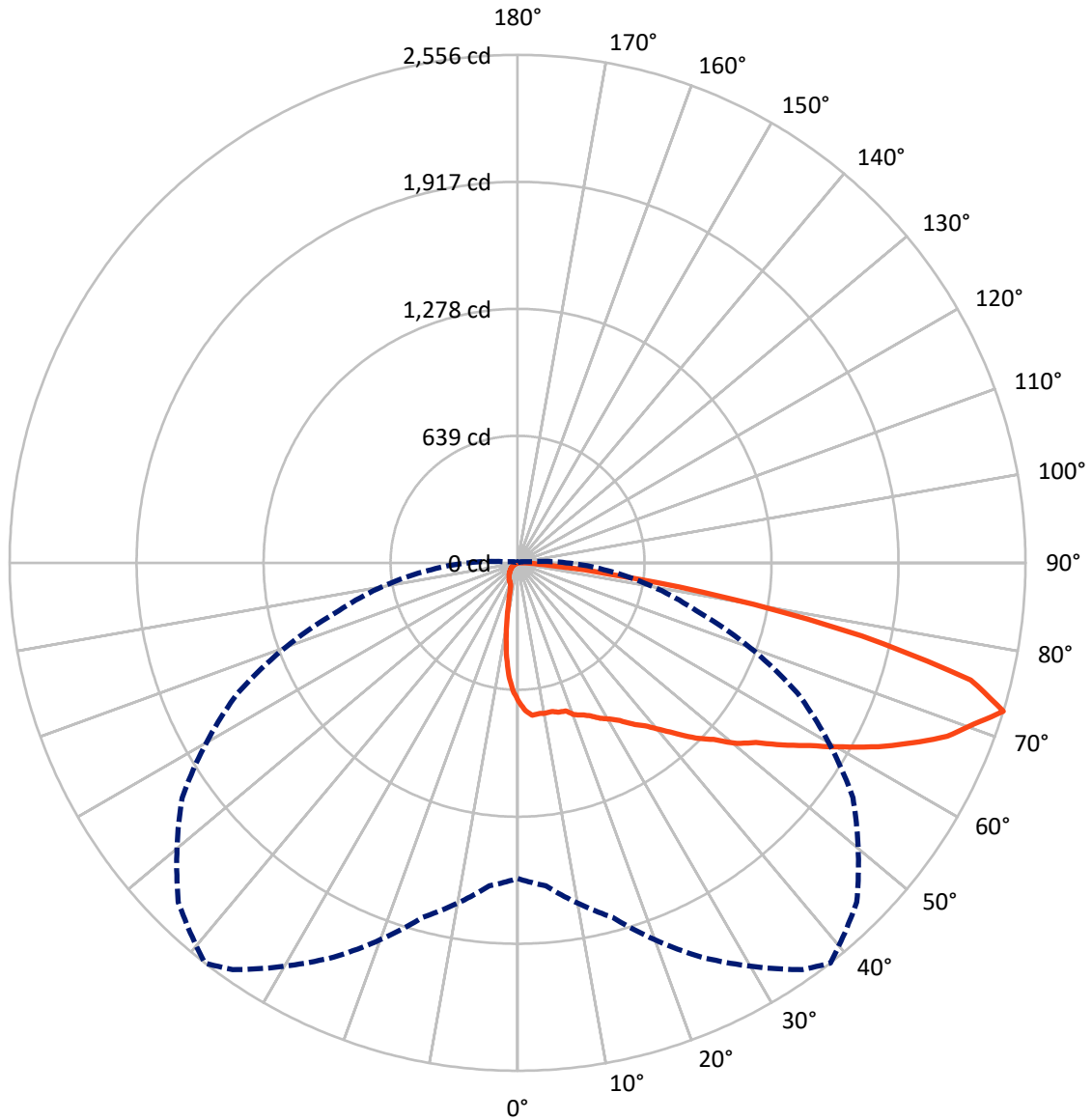
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.3 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	322.7	0.0	322.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	3529.9	0.0	3529.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	3852.5	0.0	3852.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.0	1.6
10°-20°	149.3	3.9
20°-30°	239.4	6.2
30°-40°	361.4	9.4
40°-50°	550.0	14.3
50°-60°	774.3	20.1
60°-70°	945.8	24.6
70°-80°	686.8	17.8
80°-90°	84.6	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°	3852.5	100.0
0°-180°	3852.5	100.0



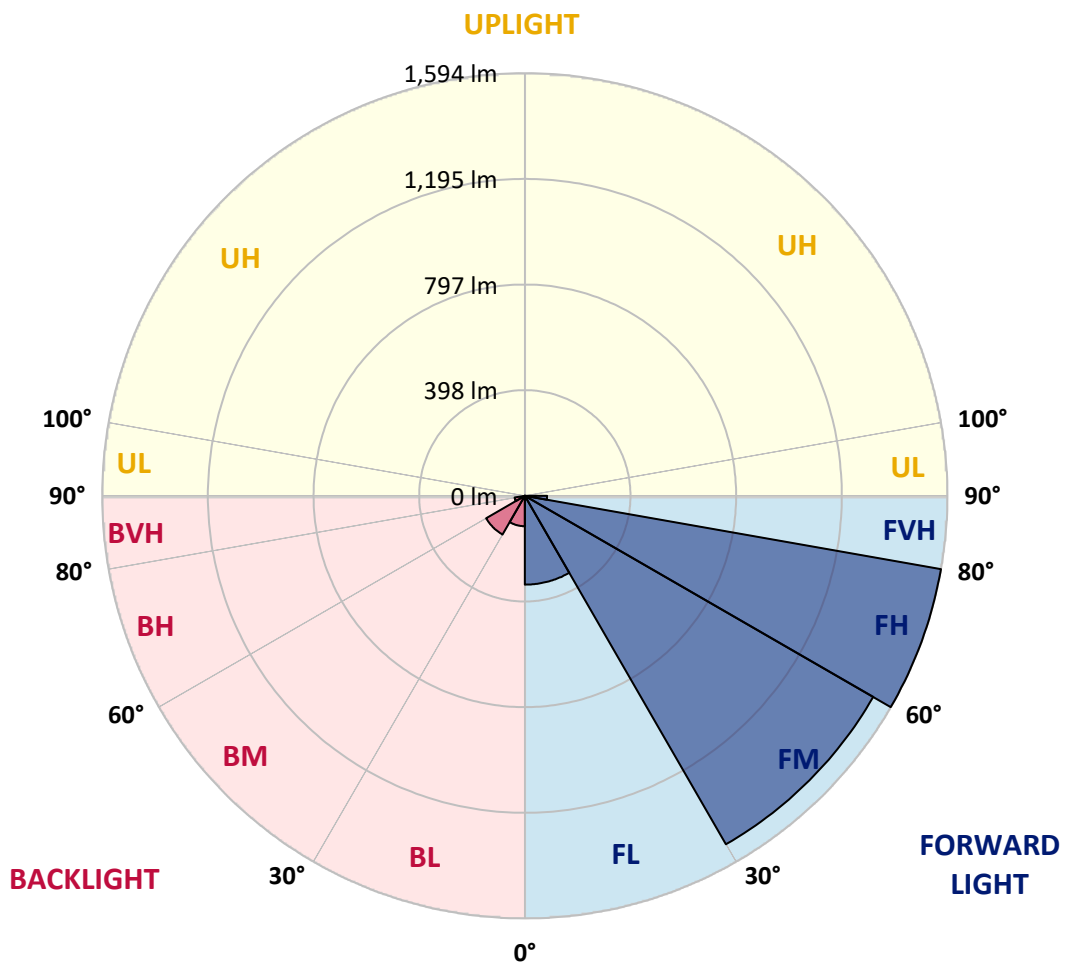
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	335.1	8.7			
FM (30°-60°)	1517.1	39.4			
FH (60°-80°)	1593.5	41.4			G1/1800
FVH (80°-90°)	84.1	2.2			G1/100
BL (0°-30°)	114.5	3.0	B1/500		
BM (30°-60°)	168.5	4.4	B0/220		
BH (60°-80°)	39.1	1.0	B0/110		G0/110
BVH (80°-90°)	0.4	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°	696.7	696.7	696.7	696.7	696.7	696.7	696.7	696.7	696.7	696.7	696.7
2.5°	765.4	765.4	772.6	765.4	762.7	745.5	746.4	737.4	728.3	715.7	703.9
5°	774.4	780.7	785.2	778.9	769.0	770.8	777.1	759.9	735.5	720.2	694.0
7.5°	770.8	784.3	780.7	777.1	770.8	766.3	757.2	750.0	738.3	723.8	693.1
10°	768.1	772.6	773.5	770.8	757.2	769.9	759.9	748.2	733.7	716.6	678.6
12.5°	758.1	758.1	766.3	759.9	761.8	768.1	763.6	760.8	745.5	731.0	697.6
15°	747.3	750.9	763.6	773.5	782.5	779.8	777.1	769.0	755.4	739.2	703.9
17.5°	750.0	751.8	771.7	789.8	785.2	783.4	797.9	780.7	767.2	749.1	709.3
20°	759.9	765.4	788.0	811.5	816.0	816.0	810.5	800.6	781.6	757.2	719.3
22.5°	769.9	771.7	808.7	838.6	843.1	831.3	835.8	806.9	788.9	775.3	729.2
25°	807.8	804.2	844.0	867.5	864.8	853.0	848.5	823.2	816.0	791.6	750.9
27.5°	859.3	844.0	882.8	897.3	882.8	886.5	873.8	846.7	831.3	816.9	760.8
30°	891.0	900.0	920.8	935.2	910.8	911.8	905.4	875.6	852.1	855.7	794.3
32.5°	939.8	946.1	961.5	967.8	948.8	947.0	940.7	917.2	900.0	896.4	839.5
35°	992.2	1003.9	1004.8	1006.6	989.5	996.7	987.7	954.2	963.3	969.6	893.7
37.5°	1043.7	1032.8	1050.9	1059.0	1040.1	1040.1	1042.8	1020.2	1036.5	1055.4	970.5
40°	1063.6	1068.1	1099.7	1093.4	1116.0	1102.4	1112.4	1106.9	1120.5	1163.9	1078.9
42.5°	1084.3	1089.8	1132.2	1144.0	1171.1	1175.6	1190.1	1191.0	1230.7	1302.1	1182.8
45°	1124.1	1115.1	1172.9	1201.8	1246.1	1258.7	1275.9	1290.4	1352.7	1436.8	1301.2
47.5°	1160.2	1147.6	1213.6	1271.4	1325.6	1328.3	1375.3	1390.7	1464.8	1560.6	1418.7
50°	1210.9	1215.4	1243.4	1342.8	1397.9	1429.5	1462.1	1512.7	1594.9	1697.0	1503.6
52.5°	1263.3	1258.7	1305.7	1403.3	1490.1	1501.8	1575.0	1631.9	1721.4	1798.2	1541.6
55°	1327.4	1332.8	1350.9	1479.2	1589.5	1617.5	1699.7	1759.3	1856.9	1841.6	1554.2
57.5°	1391.6	1386.2	1426.8	1564.2	1714.2	1735.0	1844.3	1879.5	1945.5	1870.5	1522.6
60°	1454.8	1464.8	1481.9	1660.0	1850.6	1881.3	1968.1	1986.2	2000.6	1884.0	1498.2
62.5°	1527.1	1503.6	1556.9	1761.2	1973.5	2037.7	2106.3	2035.0	2022.3	1859.7	1442.2
65°	1563.3	1570.5	1640.1	1876.8	2137.1	2184.1	2193.1	2100.9	2035.9	1805.4	1389.8
67.5°	1619.3	1629.2	1717.8	1995.2	2305.1	2331.3	2298.8	2160.6	2024.1	1735.0	1200.9
70°	1626.5	1650.9	1821.7	2119.0	2410.9	2433.5	2408.1	2200.3	1929.2	1457.5	889.2
72.5°	1588.6	1631.9	1847.0	2189.5	2499.4	2556.3	2414.5	2060.3	1555.1	929.8	455.4
75°	1200.0	1236.2	1690.7	2084.7	2342.2	2355.7	2119.9	1572.3	885.5	317.2	116.6
77.5°	621.7	684.0	1128.6	1593.1	1784.7	1770.2	1475.6	926.2	304.5	83.1	47.0
80°	356.9	372.3	493.4	894.6	1122.3	1067.2	816.0	399.4	133.7	41.6	30.7
82.5°	176.2	197.9	265.7	400.3	561.1	461.8	306.3	239.5	75.0	22.6	27.1
85°	38.0	39.8	135.5	191.6	227.7	150.0	104.8	201.5	27.1	13.6	26.2
87.5°	27.1	26.2	38.0	85.8	63.3	38.9	62.3	105.7	6.3	6.3	5.4
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°	696.7	696.7	696.7	696.7	696.7	696.7	696.7	696.7	696.7	696.7	696.7
2.5°	696.7	688.6	679.5	662.4	657.8	655.1	639.8	638.9	636.1	629.8	627.1
5°	677.7	664.2	647.0	628.9	614.5	588.3	556.6	540.4	520.5	521.4	515.1
7.5°	675.0	649.7	625.3	587.4	541.3	492.5	443.7	412.1	389.5	375.9	378.6
10°	662.4	643.4	603.6	533.1	459.0	384.9	322.6	275.6	248.5	227.7	234.0
12.5°	667.8	630.7	574.7	480.7	375.0	283.7	206.0	160.8	141.0	133.7	135.5
15°	664.2	630.7	557.5	423.8	294.6	192.5	133.7	119.3	115.7	115.7	113.9
17.5°	675.0	638.0	528.6	367.8	211.4	128.3	114.8	112.0	109.3	109.3	109.3
20°	690.4	641.6	508.7	305.4	149.1	113.0	107.5	105.7	104.8	104.8	103.9
22.5°	691.3	638.0	471.7	236.7	114.8	106.6	102.1	101.2	101.2	99.4	99.4
25°	696.7	641.6	431.9	178.0	106.6	100.3	96.7	95.8	96.7	95.8	94.9
27.5°	710.2	647.9	392.2	130.1	100.3	94.9	92.2	91.3	91.3	91.3	89.5
30°	727.4	647.9	347.9	107.5	94.9	89.5	86.7	85.8	84.9	84.9	84.9
32.5°	763.6	668.7	293.7	95.8	87.7	83.1	80.4	80.4	79.5	79.5	78.6
35°	808.7	683.1	238.6	88.6	81.3	76.8	74.1	74.1	73.2	73.2	72.3
37.5°	864.8	719.3	182.5	83.1	75.0	70.5	67.8	67.8	67.8	66.9	66.9
40°	944.3	756.3	135.5	75.9	68.7	64.2	62.3	61.4	60.5	60.5	58.7
42.5°	1029.2	813.3	101.2	70.5	63.3	59.6	56.9	54.2	54.2	51.5	51.5
45°	1121.4	863.0	82.2	64.2	57.8	53.3	50.6	48.8	46.1	44.3	44.3
47.5°	1211.8	893.7	72.3	56.9	52.4	48.8	46.1	42.5	38.9	38.0	37.0
50°	1284.9	902.7	64.2	51.5	47.9	44.3	40.7	36.1	32.5	30.7	29.8
52.5°	1284.9	853.0	57.8	46.1	43.4	39.8	35.2	29.8	25.3	23.5	22.6
55°	1284.9	774.4	51.5	42.5	38.9	36.1	29.8	24.4	19.9	17.2	16.3
57.5°	1266.0	679.5	46.1	38.0	34.3	30.7	25.3	19.0	14.5	11.7	11.7
60°	1213.6	580.1	39.8	33.4	29.8	25.3	19.9	13.6	9.0	6.3	6.3
62.5°	1146.7	461.8	34.3	28.0	24.4	20.8	15.4	9.0	3.6	1.8	1.8
65°	1030.1	340.7	29.8	23.5	19.0	15.4	9.9	3.6	0.0	0.0	0.0
67.5°	850.3	227.7	23.5	19.0	16.3	10.8	6.3	0.9	0.0	0.0	0.0
70°	598.2	129.2	18.1	13.6	11.7	7.2	1.8	0.0	0.0	0.0	0.0
72.5°	245.8	56.9	12.7	9.9	8.1	3.6	0.0	0.0	0.0	0.0	0.0
75°	66.9	25.3	8.1	5.4	4.5	0.9	0.0	0.0	0.0	0.0	0.0
77.5°	38.9	17.2	3.6	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	30.7	8.1	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	30.7	4.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	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)