

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: P676896

Luminaire Tested: **CCW-SA-1C-830-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676896
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-830-U-SL2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
SL2 distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

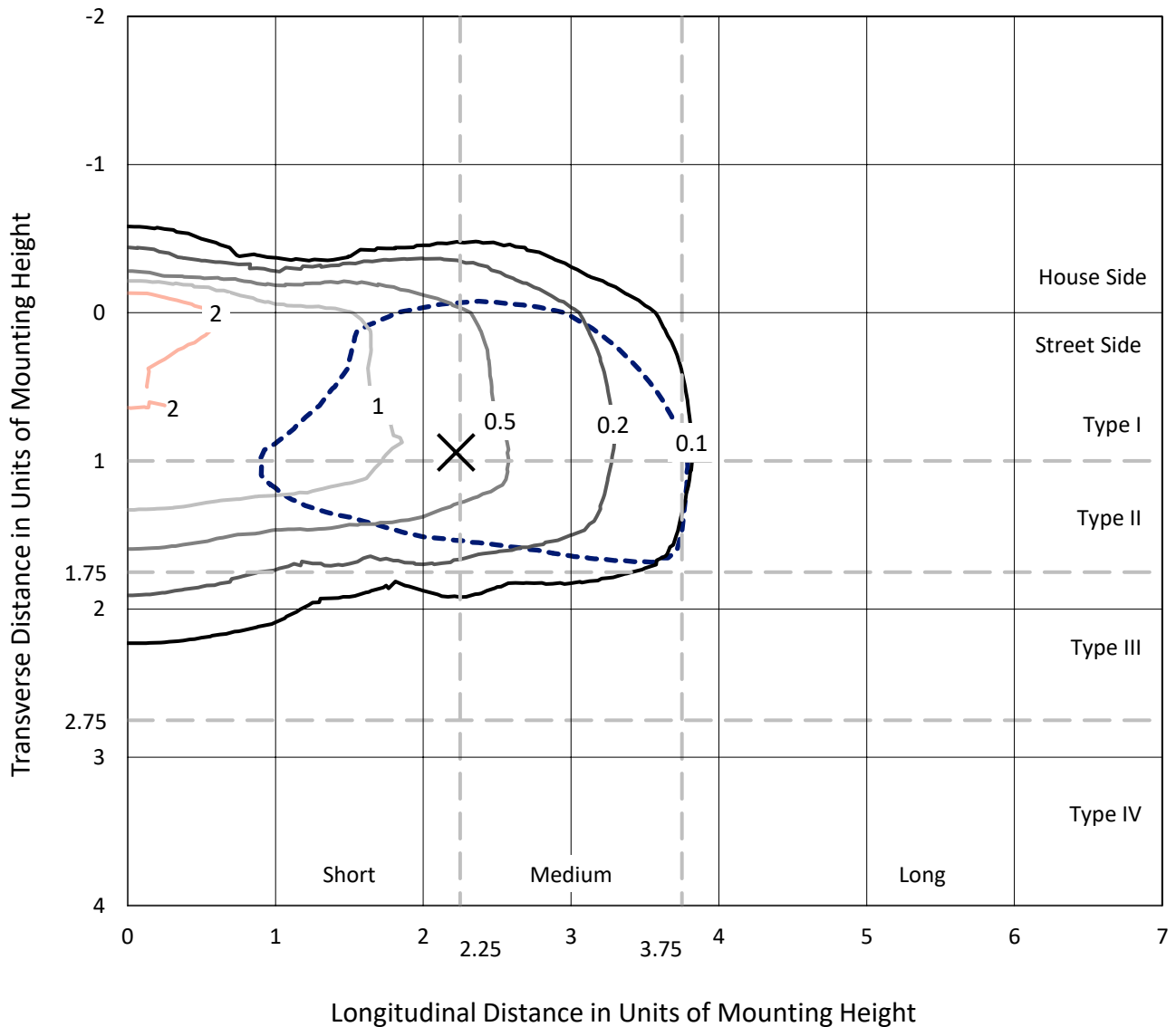
Lumens per Lamp: N/A
Luminaire Lumens: 2889 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 32
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

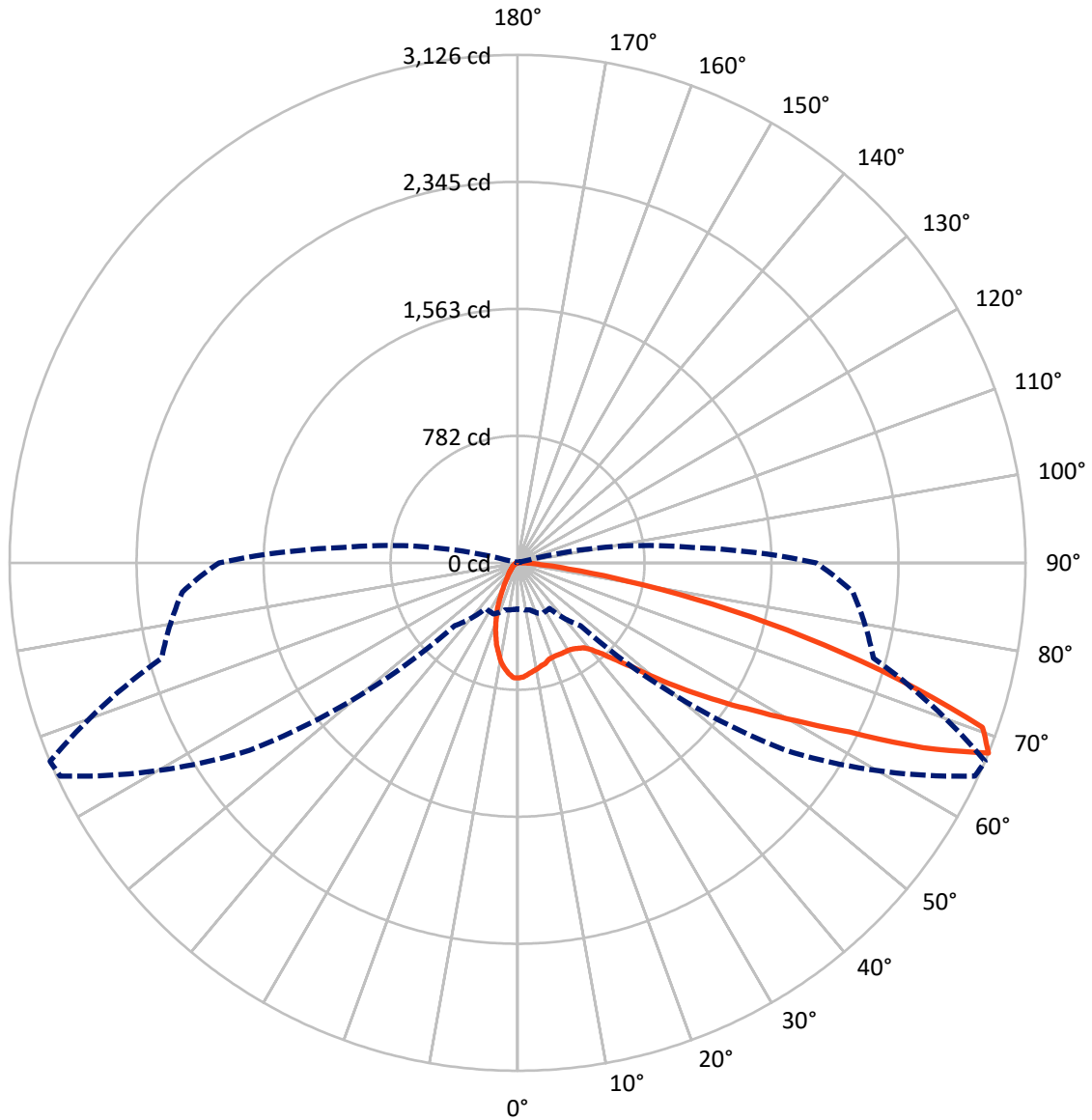
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	363.6	0.0	363.6
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	2525.4	0.0	2525.4
	% Fixture	87.4	0.0	87.4
Total	Lumens	2889.0	0.0	2889.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.7	2.1
10°-20°	132.6	4.6
20°-30°	188.6	6.5
30°-40°	274.6	9.5
40°-50°	425.0	14.7
50°-60°	652.3	22.6
60°-70°	707.1	24.5
70°-80°	398.9	13.8
80°-90°	50.1	1.7
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°	2889.0	100.0
0°-180°	2889.0	100.0

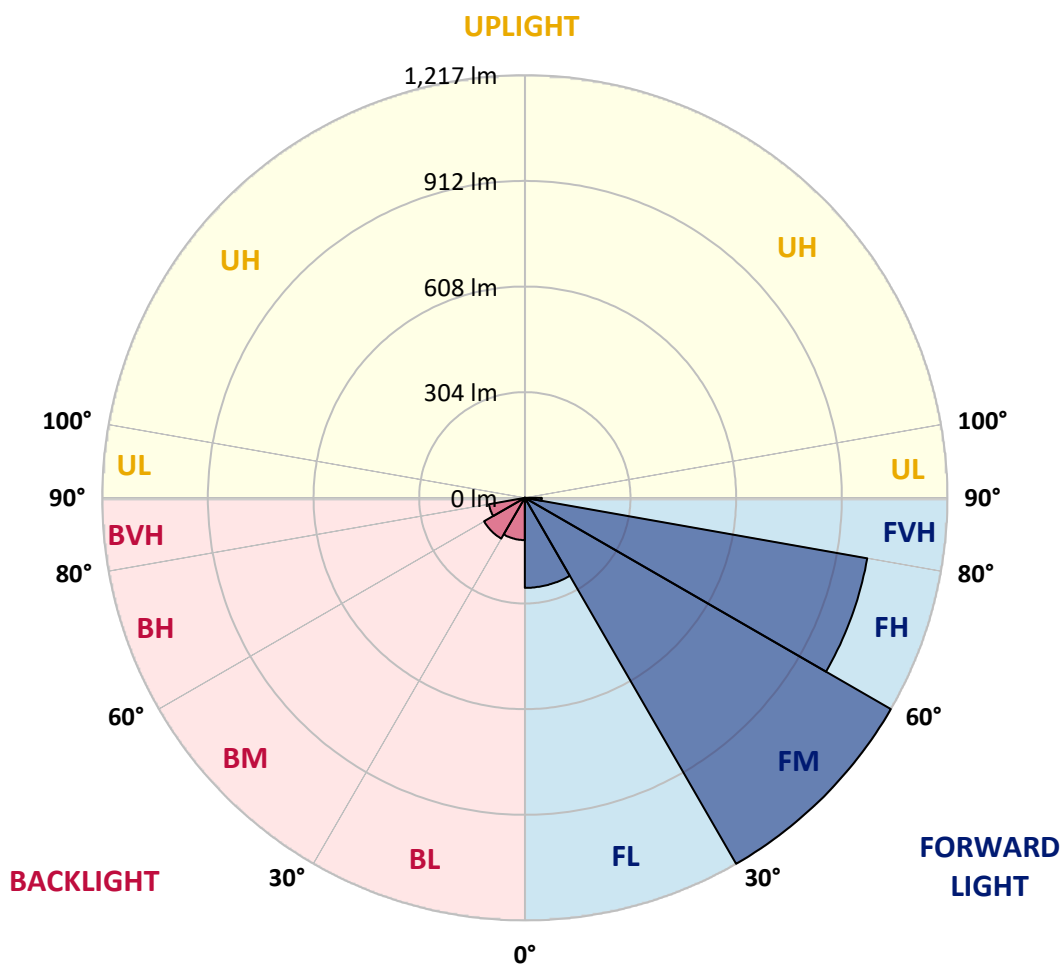


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	259.2	9.0			
FM (30°-60°)	1216.5	42.1			
FH (60°-80°)	1001.0	34.6			G1/1800
FVH (80°-90°)	48.7	1.7			G1/100
BL (0°-30°)	121.7	4.2	B1/500		
BM (30°-60°)	135.4	4.7	B0/220		
BH (60°-80°)	105.0	3.6	B0/110		G0/110
BVH (80°-90°)	1.4	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	708.6	708.6	708.6	708.6	708.6	708.6	708.6	708.6	708.6	708.6	708.6
2.5°	678.0	681.5	686.3	693.3	698.2	695.4	697.5	709.3	703.1	708.6	705.8
5°	640.4	643.9	650.8	650.1	655.7	666.2	680.1	695.4	688.4	705.1	711.4
7.5°	601.4	600.0	600.0	614.6	626.5	641.1	648.8	673.8	674.5	689.1	704.4
10°	565.9	570.1	577.1	582.6	593.8	614.6	636.9	656.4	664.1	693.3	697.5
12.5°	544.3	546.4	554.8	559.7	574.3	594.5	618.1	643.2	649.5	679.4	699.6
15°	535.3	540.2	543.0	552.0	559.7	578.5	595.9	624.4	642.5	666.2	691.2
17.5°	542.3	540.2	541.6	544.3	553.4	570.1	588.9	617.4	623.7	663.4	701.0
20°	551.3	552.0	547.8	546.4	544.3	560.4	575.7	612.6	619.5	663.4	707.2
22.5°	575.7	568.0	575.7	564.5	553.4	560.4	575.0	613.3	618.1	662.7	713.5
25°	605.6	607.0	609.1	585.4	569.4	564.5	579.8	615.3	619.5	668.2	716.3
27.5°	648.1	654.3	643.9	632.1	600.0	575.7	579.1	614.0	621.6	665.5	723.2
30°	705.1	700.3	701.7	674.5	643.2	604.9	595.2	617.4	623.0	668.9	736.5
32.5°	754.6	749.0	758.7	749.0	699.6	646.7	614.0	624.4	630.7	677.3	747.6
35°	785.2	792.2	807.5	817.9	776.1	701.0	645.3	643.2	646.0	681.5	756.0
37.5°	832.5	845.1	857.6	884.0	847.8	767.8	694.7	667.6	662.7	701.7	760.1
40°	884.0	880.6	917.4	948.8	947.4	861.8	763.6	710.7	703.7	733.7	788.0
42.5°	927.2	923.7	964.8	1016.3	1021.9	952.3	842.3	772.0	765.7	783.1	822.1
45°	983.6	986.4	1035.1	1096.3	1116.5	1072.0	948.8	859.7	856.2	850.6	886.8
47.5°	1033.7	1049.0	1090.8	1163.2	1236.3	1195.9	1074.1	987.8	963.4	950.9	987.1
50°	1068.5	1082.4	1133.2	1210.5	1344.2	1369.9	1214.7	1124.2	1124.9	1094.3	1113.7
52.5°	1068.5	1067.8	1108.9	1210.5	1419.3	1551.6	1402.6	1296.1	1301.7	1269.7	1271.1
55°	965.5	963.4	1013.5	1121.4	1411.0	1726.3	1687.3	1514.0	1500.1	1438.1	1444.4
57.5°	777.5	782.4	820.7	950.2	1302.4	1807.7	2026.3	1759.0	1711.7	1583.6	1583.6
60°	567.3	563.1	591.7	682.2	1043.4	1777.1	2304.8	2047.9	1973.4	1704.0	1685.9
62.5°	431.6	430.9	438.5	469.2	662.0	1549.5	2424.5	2415.4	2294.3	1822.4	1796.6
65°	348.7	350.1	360.6	382.2	404.4	1056.7	2361.1	2854.0	2743.3	1998.5	1914.2
67.5°	284.7	288.2	300.7	347.3	342.5	547.1	2011.0	3105.3	3126.1	2267.2	2072.3
70°	219.3	224.8	239.5	305.6	329.9	364.1	1394.3	2980.0	3035.7	2434.2	1976.9
72.5°	149.0	148.3	179.6	247.8	333.4	333.4	776.1	2400.1	2453.0	2244.2	1717.3
75°	80.7	85.6	119.0	187.2	305.6	322.3	442.0	1756.2	1830.7	1745.1	1328.1
77.5°	43.9	44.5	66.1	122.5	254.1	307.7	295.1	1194.5	1223.7	1052.5	727.4
80°	23.0	23.7	34.8	80.1	175.4	285.4	245.7	712.1	684.3	403.7	240.2
82.5°	10.4	11.1	17.4	50.1	112.1	224.8	212.3	343.9	317.4	112.8	73.1
85°	4.2	4.2	7.7	29.9	65.4	110.7	181.7	172.6	144.1	34.1	36.2
87.5°	1.4	1.4	2.1	11.8	26.5	66.1	96.8	91.2	62.6	12.5	19.5
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°	708.6	708.6	708.6	708.6	708.6	708.6	708.6	708.6	708.6	708.6	708.6
2.5°	703.1	710.7	708.6	707.2	694.0	692.6	691.2	678.7	682.9	672.4	679.4
5°	707.2	711.4	700.3	679.4	660.6	639.7	623.7	612.6	592.4	584.7	583.3
7.5°	703.1	703.1	680.1	646.7	609.8	575.7	532.5	501.9	478.9	461.5	467.8
10°	697.5	689.1	665.5	606.3	539.5	488.0	426.0	380.8	346.7	335.5	328.6
12.5°	697.5	682.9	630.0	549.2	462.9	384.9	311.2	252.0	219.3	199.8	197.0
15°	691.2	669.6	604.2	495.6	388.4	282.6	198.4	147.6	119.7	112.1	109.3
17.5°	692.6	666.9	565.9	432.3	301.4	187.9	121.1	93.3	86.3	82.8	83.5
20°	695.4	666.9	531.8	370.3	217.2	116.9	83.5	78.7	75.2	73.8	74.5
22.5°	704.4	653.6	497.0	307.0	146.9	84.2	73.8	68.9	66.1	64.0	63.3
25°	705.8	651.5	463.6	244.3	100.9	71.0	64.7	59.2	55.7	52.9	52.2
27.5°	703.7	642.5	417.0	181.7	75.9	63.3	55.0	49.4	44.5	42.5	41.8
30°	711.4	625.8	377.3	130.9	64.0	55.0	46.6	40.4	36.2	33.4	33.4
32.5°	712.1	611.2	333.4	93.3	58.5	48.7	39.7	32.7	28.5	27.1	27.1
35°	712.8	597.9	284.7	71.0	52.2	41.8	32.7	27.1	24.4	22.3	22.3
37.5°	714.9	588.2	240.2	59.9	46.6	35.5	27.1	22.3	19.5	18.8	18.8
40°	719.1	575.0	193.5	52.9	40.4	29.9	23.0	18.8	16.0	15.3	14.6
42.5°	730.2	571.5	154.5	47.3	36.2	25.1	18.8	15.3	13.2	11.8	11.1
45°	776.1	580.5	119.7	43.9	30.6	20.9	16.0	12.5	9.7	9.0	8.4
47.5°	851.3	610.5	94.7	39.0	25.8	17.4	13.2	9.7	7.7	7.0	6.3
50°	965.5	678.7	77.3	34.8	21.6	14.6	10.4	7.7	5.6	4.9	4.9
52.5°	1115.1	770.6	66.8	30.6	17.4	12.5	8.4	5.6	4.2	3.5	3.5
55°	1268.3	879.2	62.6	26.5	14.6	10.4	6.3	4.2	2.8	2.1	2.1
57.5°	1408.9	949.5	60.6	21.6	12.5	7.7	4.9	2.8	1.4	0.7	0.7
60°	1496.6	1001.0	54.3	17.4	9.7	6.3	3.5	1.4	0.7	0.0	0.0
62.5°	1612.1	1053.2	44.5	13.2	7.0	4.2	2.1	0.7	0.0	0.0	0.0
65°	1764.6	1111.7	34.8	10.4	5.6	2.8	1.4	0.7	0.0	0.0	0.0
67.5°	1837.7	1081.0	23.7	7.7	3.5	1.4	0.7	0.0	0.0	0.0	0.0
70°	1691.5	910.5	16.7	5.6	2.1	0.7	0.7	0.0	0.0	0.0	0.0
72.5°	1422.1	713.5	12.5	3.5	1.4	0.7	0.0	0.0	0.0	0.0	0.0
75°	1048.3	446.2	9.7	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	556.2	166.4	7.0	2.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	164.3	48.7	4.9	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	54.3	14.6	2.8	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.8	5.6	1.4	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.0	2.1	1.4	1.4	0.7	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)