

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: P676765

Luminaire Tested: **CCW-SA-1E-835-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676765
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-835-U-T4W-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
T4W distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

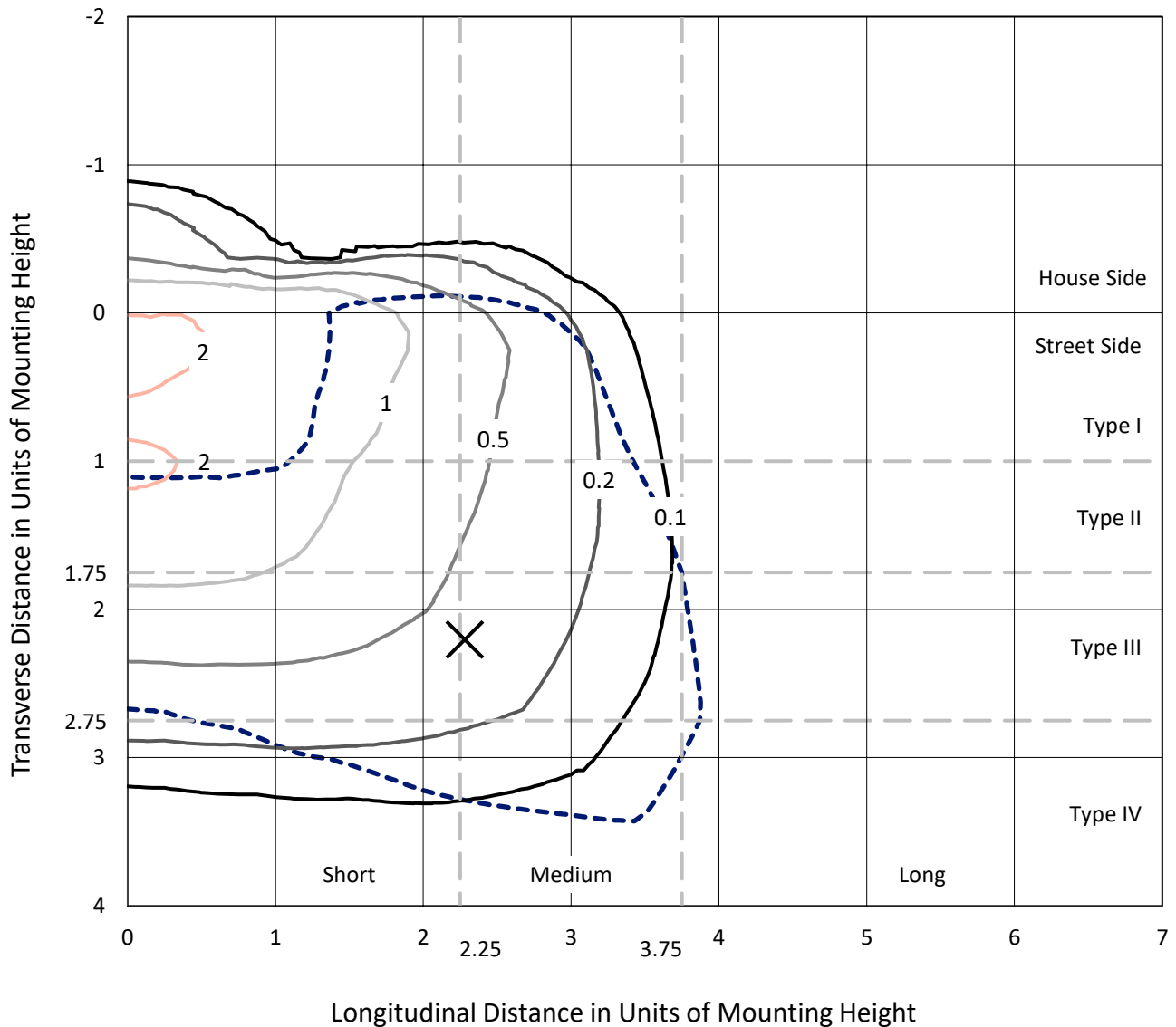
Lumens per Lamp: N/A
Luminaire Lumens: 4064.6 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1
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

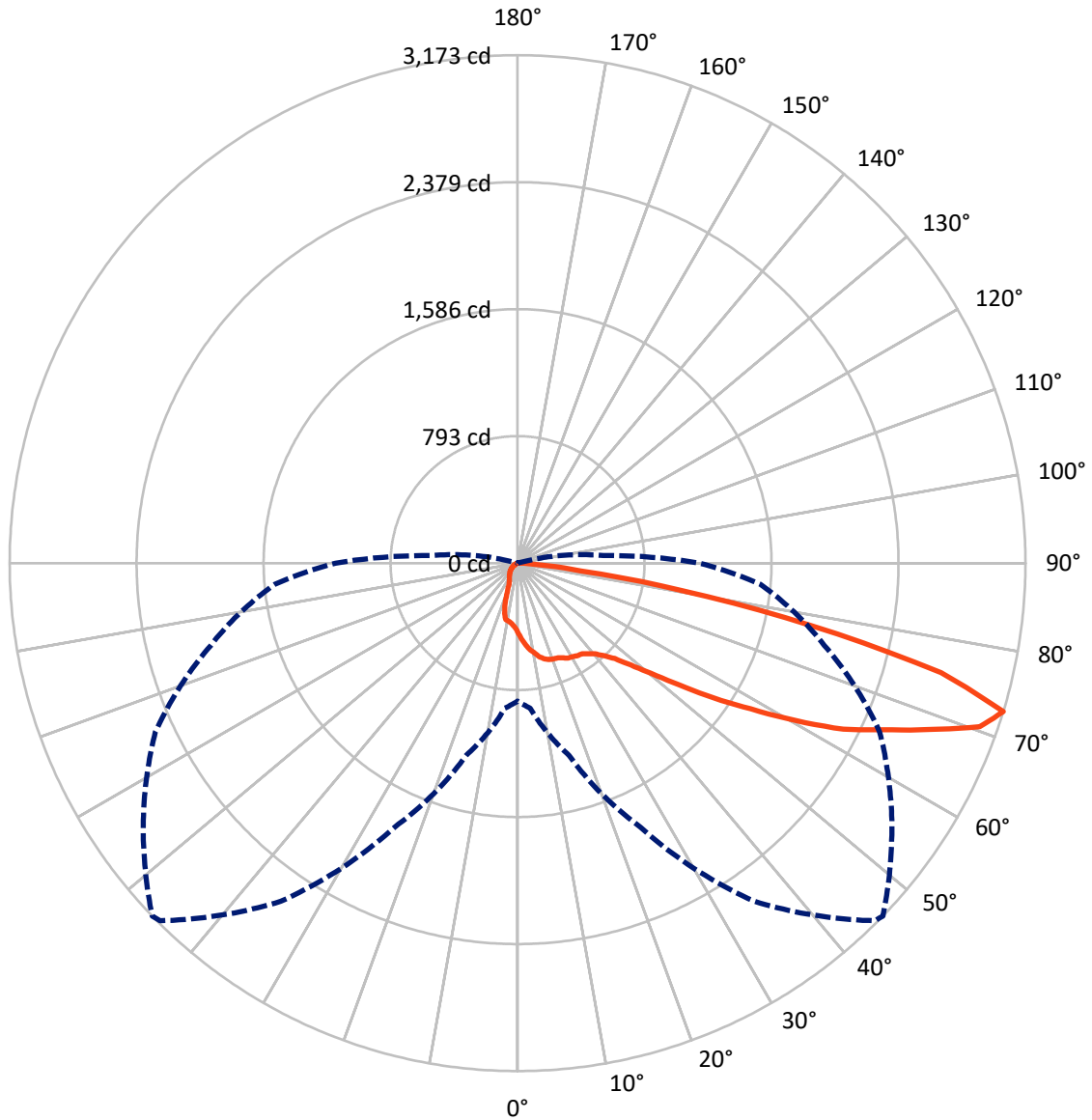
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	437.6	0.0	437.6
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	3627.0	0.0	3627.0
	% Fixture	89.2	0.0	89.2
Total	Lumens	4064.6	0.0	4064.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.5	1.1
10°-20°	131.3	3.2
20°-30°	205.5	5.1
30°-40°	287.8	7.1
40°-50°	474.6	11.7
50°-60°	853.0	21.0
60°-70°	1236.3	30.4
70°-80°	771.6	19.0
80°-90°	61.2	1.5
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°	4064.6	100.0
0°-180°	4064.6	100.0



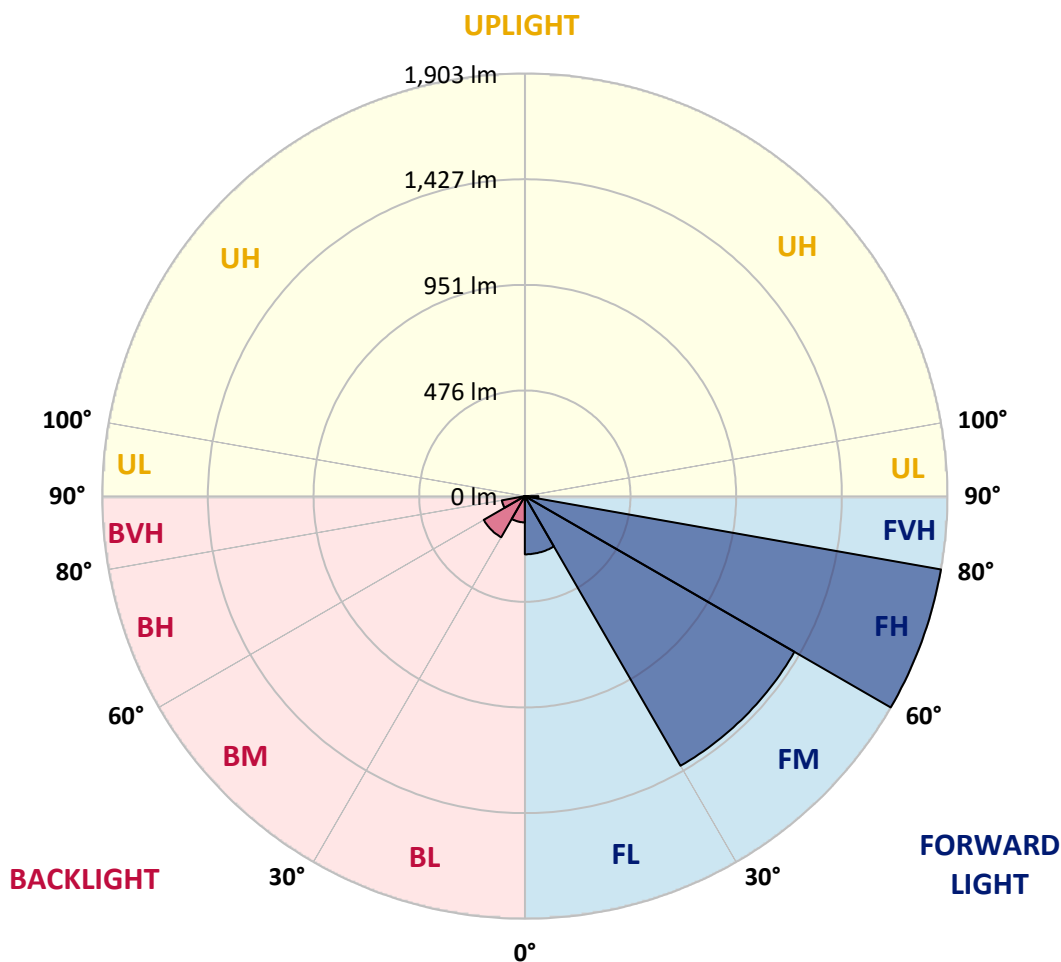
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	262.0	6.4			
FM (30°-60°)	1401.6	34.5			
FH (60°-80°)	1902.6	46.8			G2/5000
FVH (80°-90°)	60.8	1.5			G1/100
BL (0°-30°)	118.3	2.9	B1/500		
BM (30°-60°)	213.8	5.3	B0/220		
BH (60°-80°)	105.2	2.6	B0/110		G0/110
BVH (80°-90°)	0.3	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	434.4	434.4	434.4	434.4	434.4	434.4	434.4	434.4	434.4	434.4	434.4
2.5°	486.2	484.2	487.3	486.2	473.8	475.9	474.8	466.5	452.0	443.7	438.6
5°	542.2	547.4	543.3	533.9	526.7	512.2	510.1	496.6	473.8	459.3	443.7
7.5°	600.3	600.3	592.0	577.5	561.9	546.4	544.3	521.5	501.8	476.9	455.1
10°	643.8	638.7	632.4	616.9	599.3	578.5	568.2	551.6	529.8	499.7	471.7
12.5°	682.2	673.9	663.5	640.7	620.0	597.2	599.3	572.3	557.8	530.8	489.4
15°	704.0	696.7	687.4	666.6	634.5	624.1	620.0	603.4	577.5	550.5	511.1
17.5°	709.2	704.0	691.5	664.6	646.9	634.5	633.5	613.8	602.4	579.6	536.0
20°	698.8	689.5	680.1	662.5	645.9	641.8	638.7	638.7	624.1	594.1	551.6
22.5°	681.2	670.8	665.6	655.2	641.8	640.7	642.8	640.7	629.3	609.6	568.2
25°	667.7	662.5	654.2	651.1	642.8	658.4	655.2	652.1	649.0	626.2	594.1
27.5°	671.8	670.8	664.6	652.1	645.9	662.5	671.8	672.9	671.8	649.0	617.9
30°	673.9	668.7	662.5	659.4	661.5	678.0	678.0	700.9	691.5	668.7	641.8
32.5°	697.7	694.6	673.9	666.6	667.7	687.4	688.4	711.2	708.1	692.6	662.5
35°	748.6	727.8	697.7	677.0	677.0	702.9	694.6	727.8	736.1	711.2	677.0
37.5°	824.2	808.7	754.8	708.1	690.5	709.2	717.4	736.1	761.0	739.2	706.0
40°	974.6	971.5	894.7	794.2	724.7	741.3	744.4	773.4	790.0	760.0	750.6
42.5°	1194.4	1178.8	1107.3	948.6	786.9	779.7	791.1	809.7	849.1	824.2	801.4
45°	1409.0	1401.7	1330.2	1152.9	899.9	856.4	850.2	883.3	941.4	914.4	896.8
47.5°	1564.5	1550.0	1509.5	1360.2	1065.8	946.6	950.7	983.9	1057.5	1036.8	1042.0
50°	1683.7	1676.5	1634.0	1552.1	1275.2	1088.6	1080.3	1113.5	1213.0	1226.5	1241.0
52.5°	1814.4	1827.8	1770.8	1701.3	1523.0	1279.4	1260.7	1272.1	1400.7	1431.8	1472.2
55°	1939.8	1961.6	1904.6	1895.2	1782.2	1490.9	1487.8	1460.8	1626.7	1630.8	1652.6
57.5°	2021.7	2014.5	2010.3	2061.1	2041.4	1733.5	1717.9	1691.0	1841.3	1814.4	1879.7
60°	2027.9	2048.7	2118.1	2243.6	2278.8	2018.6	1995.8	1922.2	2026.9	1962.6	2087.0
62.5°	2074.6	2091.2	2219.7	2392.9	2438.5	2269.5	2285.0	2098.4	2185.5	2134.7	2317.2
65°	1956.4	2008.2	2266.4	2509.0	2647.9	2523.5	2508.0	2325.5	2348.3	2300.6	2544.2
67.5°	1849.6	1869.3	2138.9	2544.2	2813.8	2778.6	2772.3	2526.6	2516.2	2428.1	2608.5
70°	1503.3	1527.2	1793.6	2363.8	2869.8	3076.1	3061.6	2808.6	2630.3	2358.7	2278.8
72.5°	861.6	909.3	1243.1	1820.6	2578.5	3159.0	3172.5	2854.2	2495.5	1983.3	1522.0
75°	282.0	295.5	516.3	1031.6	1928.4	2755.7	2731.9	2453.0	2013.4	1309.4	687.4
77.5°	95.4	97.5	152.4	373.2	1068.9	1862.0	1875.5	1753.2	1236.9	544.3	189.7
80°	48.7	51.8	74.6	140.0	439.6	1014.0	1035.7	999.4	518.4	160.7	45.6
82.5°	22.8	23.8	43.5	77.8	201.1	398.1	398.1	437.5	183.5	90.2	18.7
85°	8.3	8.3	22.8	44.6	85.0	132.7	133.7	134.8	96.4	67.4	8.3
87.5°	3.1	3.1	11.4	18.7	31.1	40.4	40.4	32.1	48.7	44.6	3.1
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°	434.4	434.4	434.4	434.4	434.4	434.4	434.4	434.4	434.4	434.4	434.4
2.5°	436.5	430.3	425.1	417.8	408.5	403.3	404.3	398.1	398.1	395.0	394.0
5°	436.5	430.3	416.8	404.3	396.0	385.7	380.5	376.3	376.3	374.3	375.3
7.5°	439.6	430.3	411.6	395.0	381.5	371.2	362.9	361.8	359.8	354.6	358.7
10°	458.3	444.8	413.7	390.9	375.3	363.9	349.4	345.2	339.0	329.7	330.7
12.5°	473.8	456.2	428.2	397.1	377.4	358.7	325.5	289.3	273.7	257.1	258.2
15°	496.6	471.7	433.4	405.4	377.4	317.3	257.1	210.5	185.6	173.1	173.1
17.5°	509.1	488.3	447.9	410.6	347.3	258.2	182.5	142.0	137.9	140.0	140.0
20°	535.0	507.0	464.5	414.7	297.6	183.5	133.7	129.6	131.7	135.8	134.8
22.5°	551.6	523.6	476.9	396.0	230.2	131.7	125.4	123.4	125.4	130.6	130.6
25°	565.0	547.4	496.6	350.4	162.8	119.2	117.2	119.2	121.3	123.4	126.5
27.5°	598.2	568.2	510.1	291.3	117.2	110.9	113.0	114.0	114.0	117.2	118.2
30°	620.0	596.1	520.5	225.0	103.7	102.6	104.7	105.8	106.8	109.9	110.9
32.5°	640.7	632.4	507.0	152.4	97.5	95.4	94.3	95.4	99.5	102.6	101.6
35°	670.8	665.6	487.3	105.8	91.2	87.1	85.0	86.1	89.2	92.3	91.2
37.5°	707.1	712.3	439.6	92.3	85.0	79.8	75.7	75.7	76.7	79.8	80.9
40°	749.6	763.1	383.6	86.1	80.9	74.6	70.5	65.3	64.3	63.2	64.3
42.5°	827.3	842.9	320.4	81.9	74.6	67.4	61.2	54.9	49.8	46.7	46.7
45°	936.2	923.8	237.4	77.8	71.5	61.2	51.8	44.6	37.3	34.2	34.2
47.5°	1086.5	1044.0	162.8	73.6	66.4	53.9	43.5	34.2	28.0	24.9	24.9
50°	1294.9	1155.0	105.8	69.5	63.2	46.7	35.3	24.9	20.7	19.7	20.7
52.5°	1491.9	1268.0	84.0	64.3	57.0	40.4	27.0	20.7	18.7	17.6	17.6
55°	1673.4	1325.0	74.6	59.1	51.8	33.2	22.8	17.6	16.6	15.6	15.6
57.5°	1826.8	1344.7	64.3	51.8	41.5	25.9	18.7	15.6	13.5	12.4	12.4
60°	1959.5	1349.9	49.8	41.5	30.1	19.7	15.6	13.5	11.4	9.3	9.3
62.5°	2065.3	1313.6	35.3	29.0	20.7	15.6	13.5	9.3	6.2	4.1	3.1
65°	2149.2	1241.0	23.8	19.7	13.5	11.4	8.3	4.1	1.0	0.0	0.0
67.5°	2050.7	1076.2	18.7	14.5	9.3	7.3	4.1	1.0	0.0	0.0	0.0
70°	1672.3	834.6	13.5	9.3	6.2	2.1	1.0	0.0	0.0	0.0	0.0
72.5°	1138.4	538.1	10.4	6.2	3.1	1.0	0.0	0.0	0.0	0.0	0.0
75°	511.1	192.8	7.3	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	124.4	45.6	5.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	33.2	11.4	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	12.4	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	1.0	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)