

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: P676609

Luminaire Tested: **CCW-SA-1D-830-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676609
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-830-U-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
T4FT distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

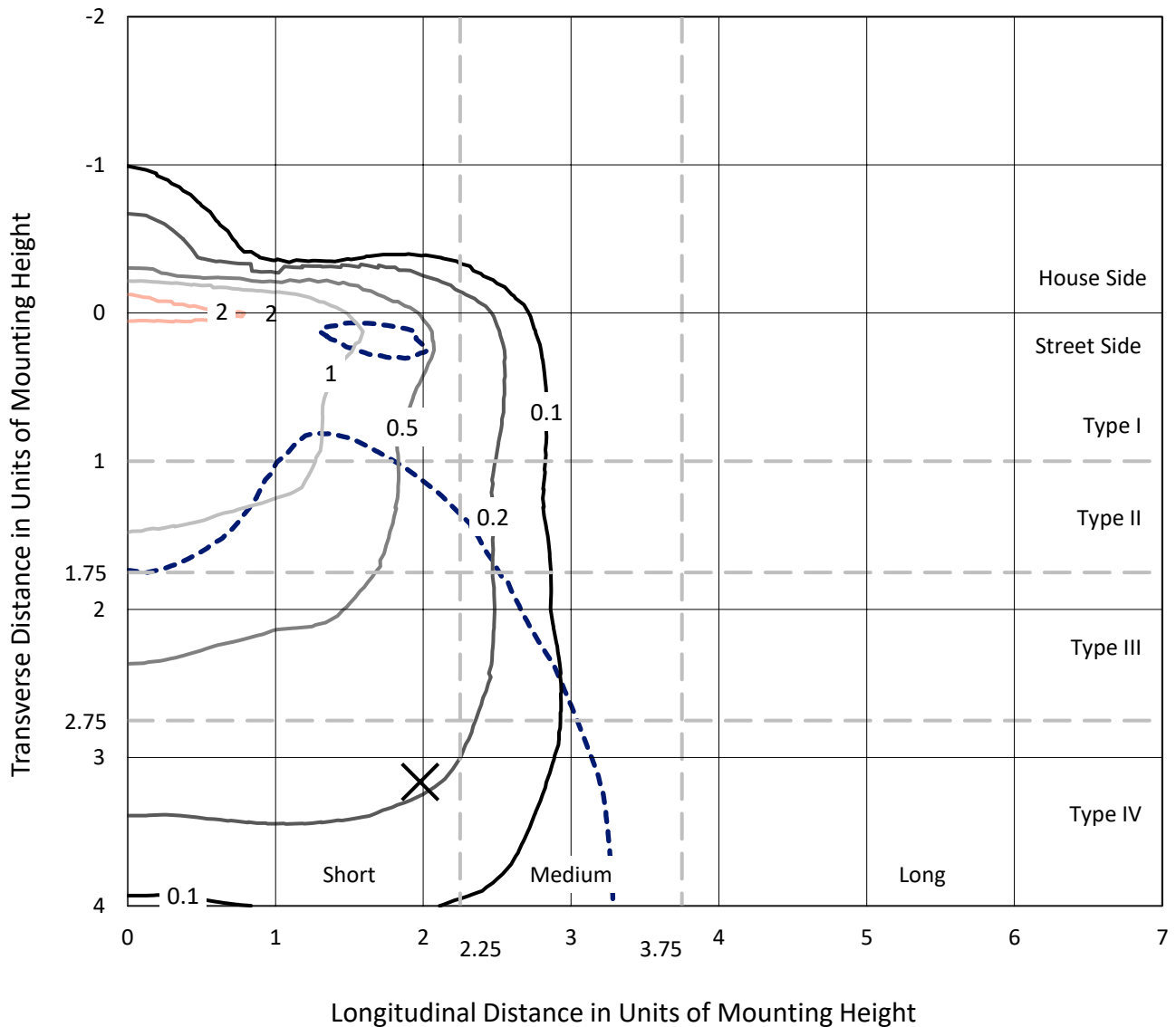
Lumens per Lamp: N/A
Luminaire Lumens: 3182 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
Input Voltage (V): 120
Input Current (A_{in}): 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

REPORT NUMBER: P676609
 CATALOG NUMBER: CCW-SA-1D-830-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

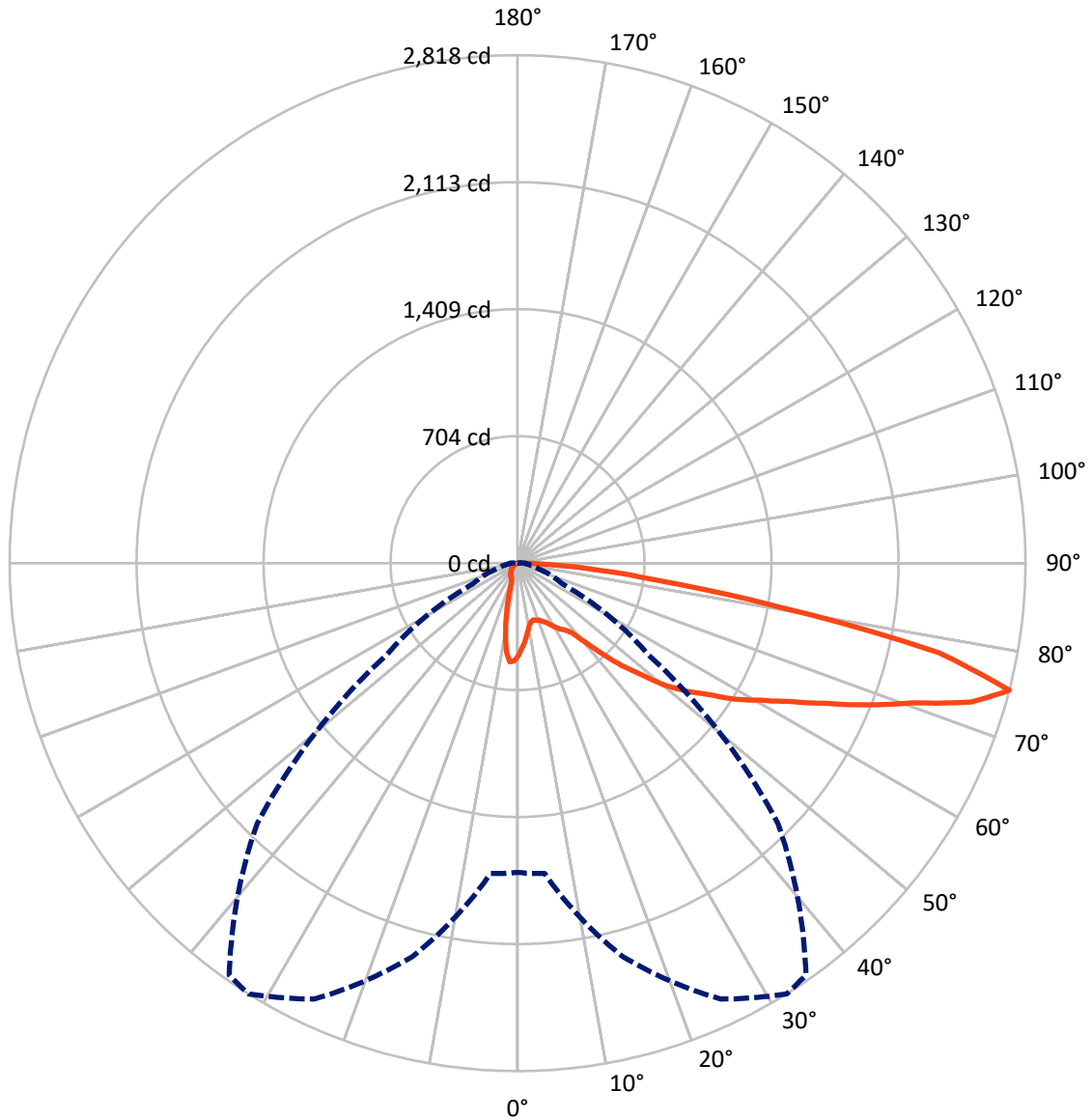
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P676609
CATALOG NUMBER: CCW-SA-1D-830-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	343.8	0.0	343.8
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	2838.2	0.0	2838.2
	% Fixture	89.2	0.0	89.2
Total	Lumens	3182.0	0.0	3182.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.2	1.4
10°-20°	102.5	3.2
20°-30°	153.5	4.8
30°-40°	235.6	7.4
40°-50°	412.0	12.9
50°-60°	644.0	20.2
60°-70°	832.6	26.2
70°-80°	678.1	21.3
80°-90°	78.5	2.5
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°	3182.0	100.0
0°-180°	3182.0	100.0



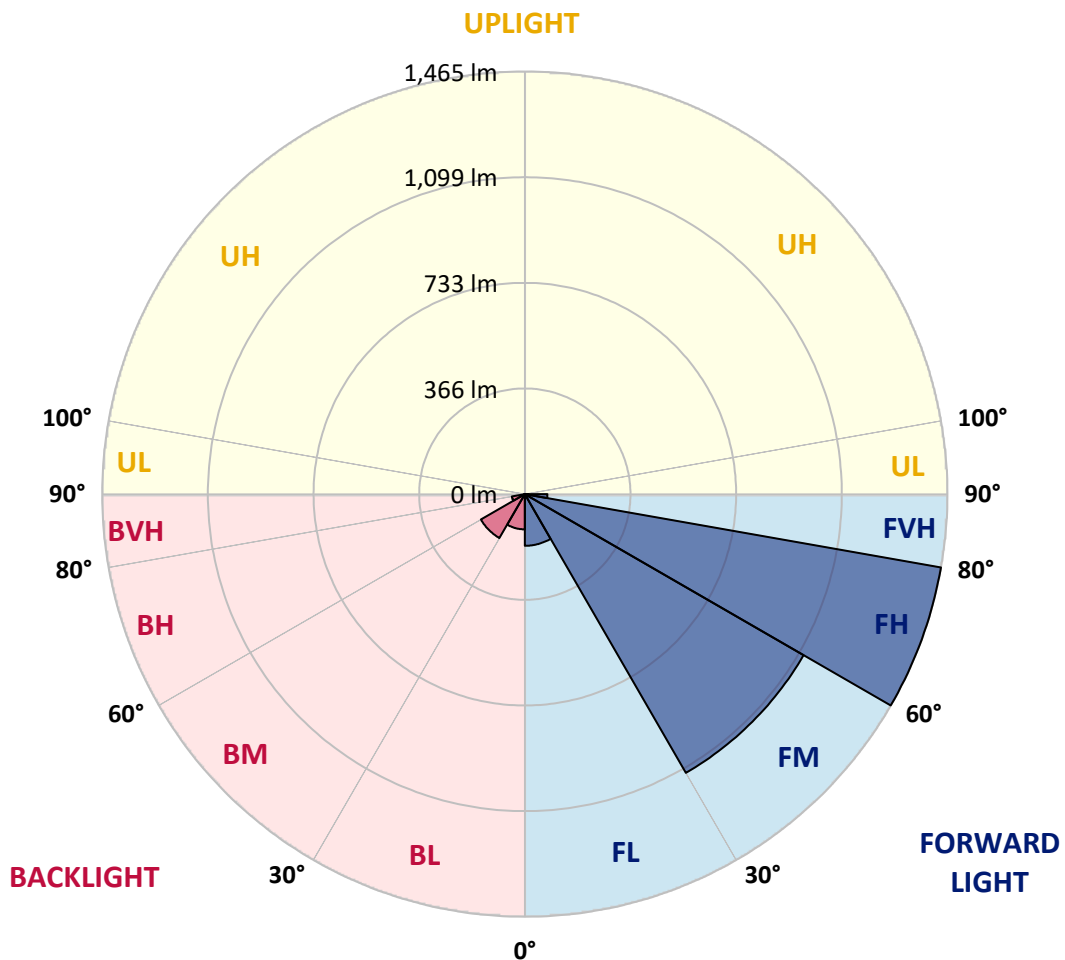
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	179.0	5.6			
FM (30°-60°)	1115.7	35.1			
FH (60°-80°)	1465.0	46.0			G1/1800
FVH (80°-90°)	78.4	2.5			G1/100
BL (0°-30°)	122.1	3.8	B1/500		
BM (30°-60°)	175.9	5.5	B0/220		
BH (60°-80°)	45.7	1.4	B0/110		G0/110
BVH (80°-90°)	0.1	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





REPORT NUMBER: P676609

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	513.8	513.8	513.8	513.8	513.8	513.8	513.8	513.8	513.8	513.8	513.8
2.5°	460.8	467.3	466.5	470.6	471.4	473.8	479.5	479.5	495.8	507.3	514.6
5°	419.2	415.1	416.7	421.6	433.9	433.0	446.9	454.3	473.8	490.1	507.3
7.5°	367.8	367.0	370.3	381.7	390.6	398.0	412.7	431.4	457.5	482.0	512.2
10°	335.2	333.6	340.1	343.3	353.9	358.8	381.7	411.0	442.0	477.1	512.2
12.5°	327.8	322.1	325.4	324.6	334.4	336.8	358.8	394.7	432.2	475.5	518.7
15°	331.9	327.8	324.6	324.6	327.0	328.7	352.3	384.1	426.5	477.9	533.4
17.5°	345.0	342.5	332.7	323.0	333.6	333.6	348.2	381.7	427.3	485.2	551.3
20°	360.5	358.0	340.9	329.5	336.8	345.0	360.5	387.4	429.8	491.0	579.0
22.5°	377.6	377.6	353.9	340.9	350.7	351.5	379.2	405.3	439.6	505.6	597.0
25°	398.8	397.2	374.3	359.7	362.9	371.9	397.2	424.9	457.5	526.0	630.4
27.5°	426.5	424.1	397.2	382.5	386.6	396.3	424.9	452.6	473.8	534.2	659.0
30°	449.4	446.9	424.9	402.9	411.8	420.8	454.3	478.7	494.2	549.7	691.6
32.5°	454.3	450.2	435.5	425.7	435.5	452.6	478.7	504.0	527.7	588.8	753.6
35°	510.5	495.8	457.5	442.0	456.7	462.4	505.6	550.5	573.3	619.8	822.9
37.5°	618.2	604.3	553.7	510.5	490.1	496.7	552.9	608.4	630.4	677.7	898.7
40°	750.3	727.5	673.6	615.7	574.1	566.0	602.7	684.2	705.4	750.3	998.2
42.5°	901.2	879.1	796.0	727.5	685.0	674.4	680.2	772.3	790.3	817.2	1063.5
45°	1009.6	998.2	904.4	843.3	809.8	798.4	784.5	868.5	891.4	900.4	1158.1
47.5°	1072.4	1064.3	1012.1	970.5	925.6	913.4	922.4	1002.3	986.8	994.1	1248.6
50°	1156.4	1135.2	1064.3	1077.3	1068.4	1065.1	1080.6	1115.7	1092.8	1071.6	1347.3
52.5°	1224.1	1186.6	1136.9	1168.7	1182.5	1194.8	1249.4	1275.5	1173.6	1140.9	1410.9
55°	1265.7	1229.8	1242.9	1272.2	1286.9	1343.2	1407.6	1388.0	1226.6	1196.4	1495.7
57.5°	1303.2	1305.7	1340.7	1349.7	1424.7	1434.5	1558.5	1494.9	1264.1	1247.0	1529.1
60°	1393.7	1384.8	1413.3	1471.2	1543.0	1597.6	1715.9	1566.6	1282.8	1273.0	1520.2
62.5°	1556.9	1501.4	1511.2	1584.6	1689.8	1749.3	1806.4	1599.3	1277.9	1277.1	1493.2
65°	1764.0	1700.4	1671.0	1739.5	1875.7	1959.7	1908.4	1636.0	1245.3	1268.2	1392.9
67.5°	1936.1	1936.9	1882.3	1920.6	2098.4	2116.3	2004.6	1628.6	1190.7	1197.2	1148.3
70°	2134.3	2161.2	2113.1	2232.9	2321.8	2333.2	2114.7	1568.3	1073.2	902.8	659.8
72.5°	2184.8	2198.7	2348.7	2533.1	2633.4	2636.6	2223.1	1366.8	706.3	398.8	204.7
75°	1715.9	1728.9	2260.7	2668.4	2817.7	2789.1	2042.1	887.3	274.8	116.6	48.9
77.5°	957.4	961.5	1403.5	2157.1	2390.3	2275.3	1430.4	345.8	110.9	66.9	22.8
80°	261.8	307.5	520.3	1063.5	1459.8	1432.9	681.0	112.5	71.8	52.2	10.6
82.5°	62.8	67.7	167.2	470.6	771.5	804.9	203.1	57.1	49.7	43.2	5.7
85°	22.8	25.3	51.4	229.2	396.3	363.7	61.2	28.5	36.7	33.4	2.4
87.5°	8.2	8.2	16.3	75.0	115.8	87.3	20.4	9.8	18.8	20.4	0.8
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°	513.8	513.8	513.8	513.8	513.8	513.8	513.8	513.8	513.8	513.8	513.8
2.5°	515.4	515.4	526.8	536.6	539.9	544.0	539.9	548.9	548.0	544.0	545.6
5°	516.2	530.9	540.7	547.2	550.5	549.7	551.3	541.5	535.8	531.7	527.7
7.5°	520.3	534.2	552.1	550.5	541.5	522.8	508.1	482.0	456.7	455.9	451.8
10°	534.2	546.4	557.0	550.5	517.9	460.8	414.3	379.2	347.4	332.7	334.4
12.5°	544.0	566.8	561.9	528.5	460.8	385.7	317.2	265.9	237.3	210.4	210.4
15°	564.4	572.5	570.9	496.7	390.6	300.9	217.7	165.6	135.4	123.1	121.5
17.5°	583.9	592.9	565.2	448.5	321.3	202.3	132.1	102.8	98.7	97.0	97.9
20°	608.4	609.2	560.3	400.4	241.4	128.0	94.6	92.2	93.0	92.2	92.2
22.5°	634.5	640.2	543.1	332.7	160.7	93.0	88.1	88.9	88.9	88.9	91.3
25°	668.7	659.8	516.2	268.3	105.2	85.6	85.6	86.4	86.4	86.4	87.3
27.5°	691.6	679.3	482.0	193.3	82.4	80.7	82.4	82.4	84.0	84.0	84.0
30°	738.9	707.1	438.8	124.8	74.2	76.7	78.3	79.9	80.7	82.4	83.2
32.5°	775.6	731.5	384.9	83.2	67.7	69.3	73.4	76.7	79.9	79.1	79.1
35°	842.4	771.5	335.2	66.1	62.0	62.0	66.1	71.8	76.7	78.3	78.3
37.5°	919.1	804.1	265.9	60.3	57.1	57.1	59.5	66.1	72.6	75.8	74.2
40°	982.7	841.6	196.5	56.3	53.0	53.0	54.6	59.5	66.9	72.6	73.4
42.5°	1027.6	869.4	132.9	52.2	49.7	48.9	51.4	53.8	59.5	67.7	69.3
45°	1068.4	884.0	82.4	48.1	46.5	46.5	46.5	48.9	53.0	60.3	62.0
47.5°	1140.9	900.4	59.5	44.9	42.4	43.2	44.0	44.9	48.1	49.7	50.6
50°	1202.1	912.6	48.9	41.6	40.0	40.8	40.8	40.8	42.4	40.0	40.0
52.5°	1248.6	900.4	41.6	38.3	36.7	37.5	36.7	36.7	35.1	31.8	31.8
55°	1282.8	878.3	33.4	35.1	35.1	35.1	33.4	31.0	27.7	25.3	25.3
57.5°	1291.8	840.8	26.1	29.4	31.8	31.8	28.5	25.3	21.2	18.8	17.9
60°	1277.9	759.3	19.6	21.2	24.5	25.3	22.8	18.8	14.7	12.2	12.2
62.5°	1228.2	694.8	15.5	13.9	17.9	18.8	16.3	12.2	8.2	5.7	4.9
65°	1133.6	595.3	11.4	9.8	12.2	13.0	10.6	5.7	2.4	0.8	0.0
67.5°	909.3	448.5	7.3	6.5	8.2	8.2	4.9	1.6	0.0	0.0	0.0
70°	503.2	252.0	4.9	3.3	4.1	2.4	0.8	0.0	0.0	0.0	0.0
72.5°	145.2	71.8	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	39.1	17.1	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	17.1	6.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	7.3	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	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)