

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: P676679

Luminaire Tested: **CCW-SA-2A-727-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676679
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-727-U-T4W-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
T4W distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

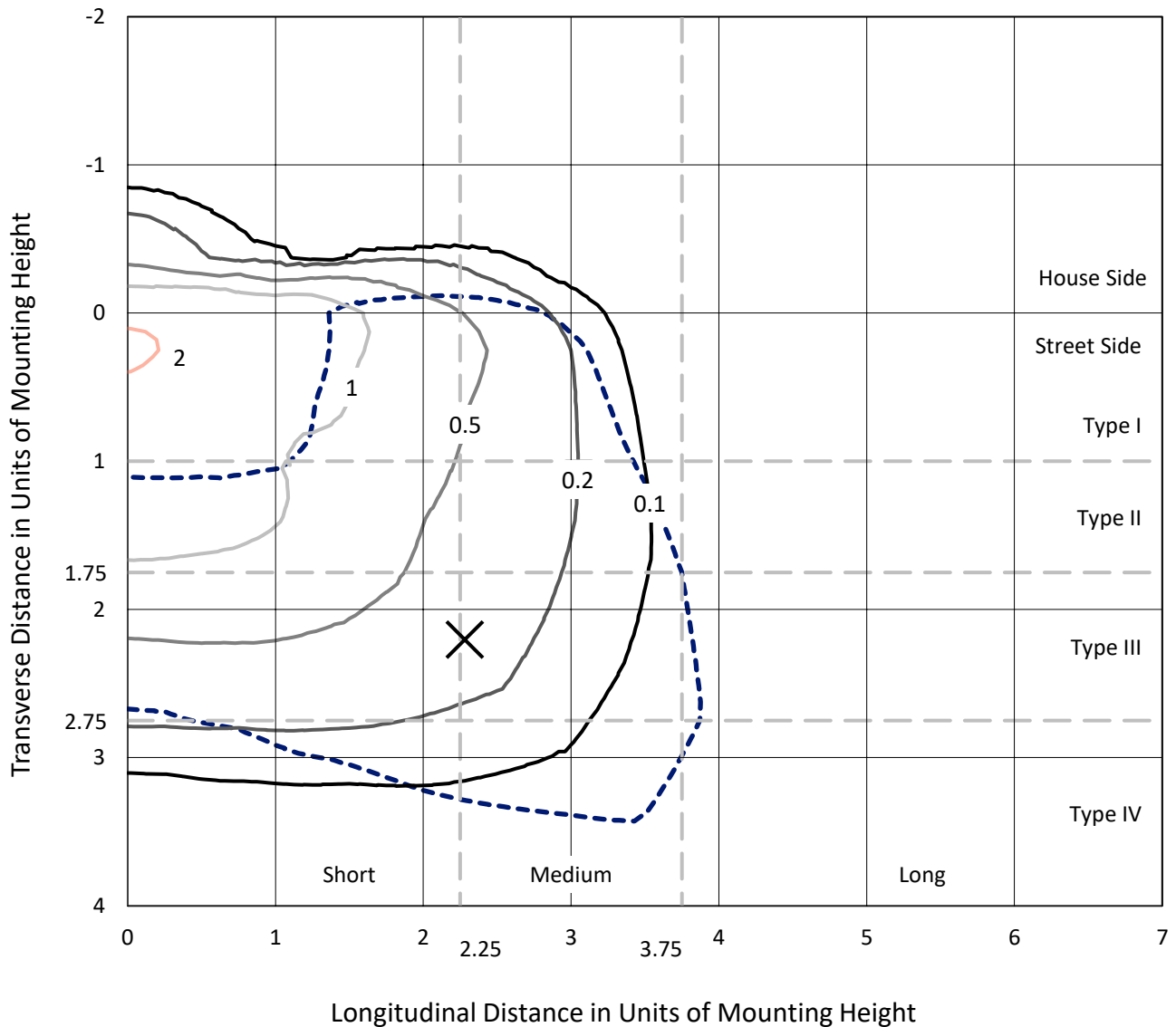
Lumens per Lamp: N/A
Luminaire Lumens: 3301.4 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G1

Input Watts (W): 36.2
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

REPORT NUMBER: P676679
 CATALOG NUMBER: CCW-SA-2A-727-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

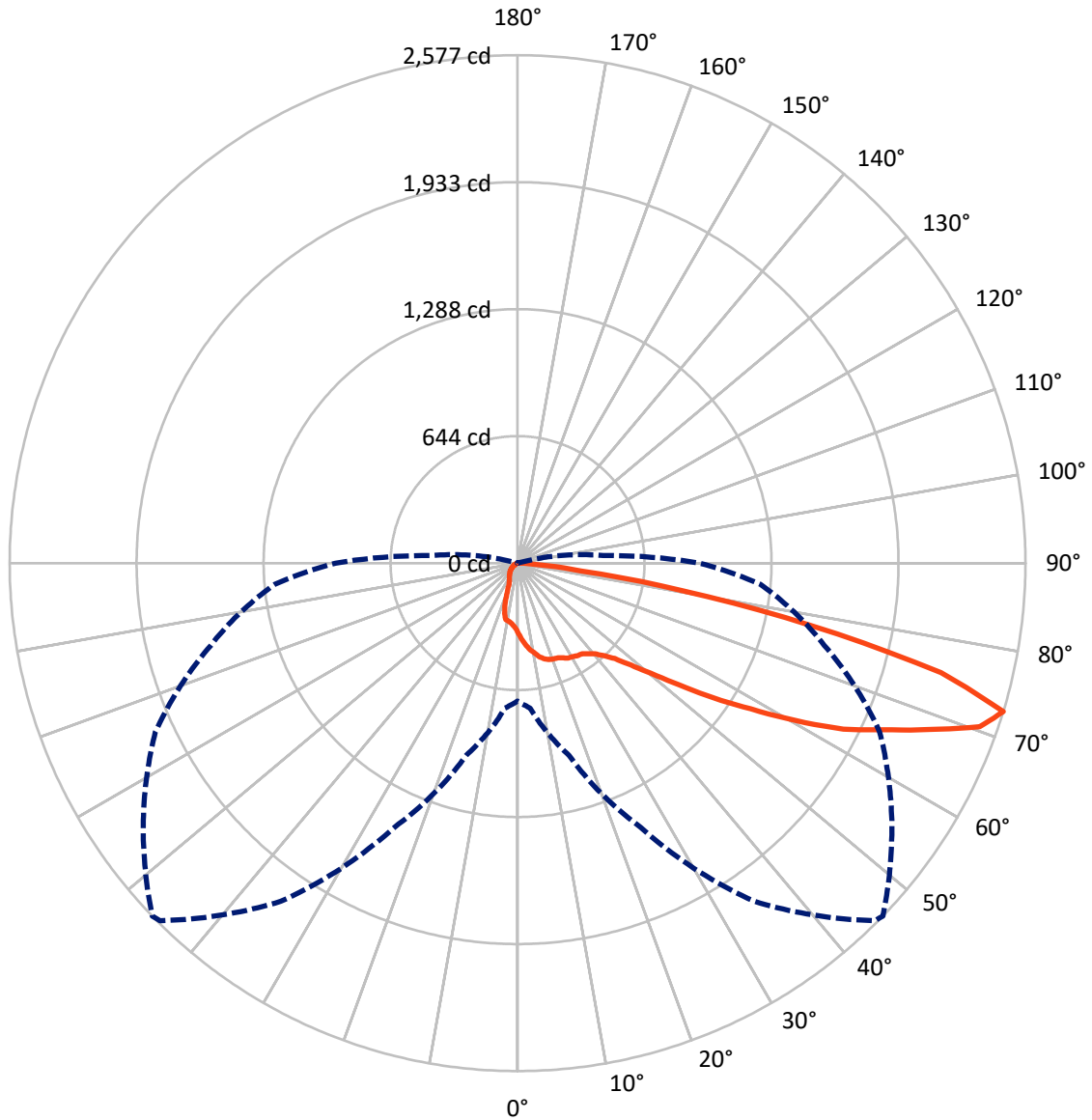
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P676679
CATALOG NUMBER: CCW-SA-2A-727-U-T4W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P676679
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	355.4	0.0	355.4
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	2946.0	0.0	2946.0
	% Fixture	89.2	0.0	89.2
Total	Lumens	3301.4	0.0	3301.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.3	1.1
10°-20°	106.6	3.2
20°-30°	166.9	5.1
30°-40°	233.8	7.1
40°-50°	385.5	11.7
50°-60°	692.8	21.0
60°-70°	1004.2	30.4
70°-80°	626.7	19.0
80°-90°	49.7	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°	3301.4	100.0
0°-180°	3301.4	100.0

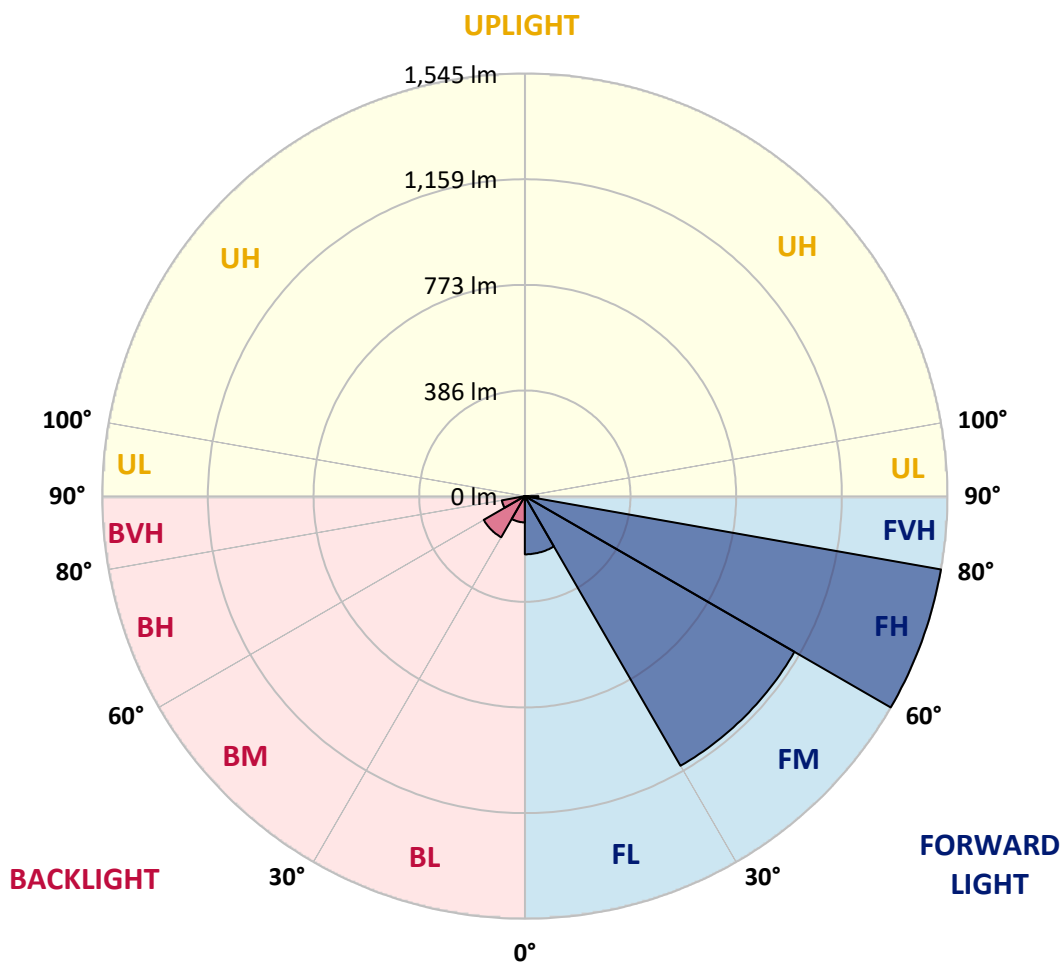


REPORT NUMBER: P676679
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	212.8	6.4			
FM (30°-60°)	1138.4	34.5			
FH (60°-80°)	1545.4	46.8			G1/1800
FVH (80°-90°)	49.4	1.5			G1/100
BL (0°-30°)	96.1	2.9	B0/110		
BM (30°-60°)	173.6	5.3	B0/220		
BH (60°-80°)	85.5	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: B0-U0-G1
 Type IV Medium





REPORT NUMBER: P676679

CATALOG NUMBER: CCW-SA-2A-727-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	352.8	352.8	352.8	352.8	352.8	352.8	352.8	352.8	352.8	352.8	352.8
2.5°	394.9	393.3	395.8	394.9	384.8	386.5	385.7	378.9	367.2	360.4	356.2
5°	440.4	444.6	441.3	433.7	427.8	416.0	414.3	403.4	384.8	373.1	360.4
7.5°	487.6	487.6	480.8	469.1	456.4	443.8	442.1	423.6	407.6	387.4	369.7
10°	522.9	518.7	513.7	501.1	486.7	469.9	461.5	448.0	430.3	405.9	383.2
12.5°	554.1	547.4	538.9	520.4	503.6	485.1	486.7	464.8	453.1	431.2	397.5
15°	571.8	565.9	558.3	541.5	515.4	506.9	503.6	490.1	469.1	447.2	415.2
17.5°	576.0	571.8	561.7	539.8	525.5	515.4	514.5	498.5	489.3	470.7	435.4
20°	567.6	560.0	552.4	538.1	524.6	521.3	518.7	518.7	506.9	482.5	448.0
22.5°	553.3	544.8	540.6	532.2	521.3	520.4	522.1	520.4	511.2	495.2	461.5
25°	542.3	538.1	531.4	528.8	522.1	534.7	532.2	529.7	527.2	508.6	482.5
27.5°	545.7	544.8	539.8	529.7	524.6	538.1	545.7	546.5	545.7	527.2	501.9
30°	547.4	543.2	538.1	535.6	537.3	550.7	550.7	569.3	561.7	543.2	521.3
32.5°	566.7	564.2	547.4	541.5	542.3	558.3	559.2	577.7	575.2	562.5	538.1
35°	608.0	591.2	566.7	549.9	549.9	570.9	564.2	591.2	597.9	577.7	549.9
37.5°	669.5	656.8	613.1	575.2	560.8	576.0	582.7	597.9	618.1	600.4	573.5
40°	791.6	789.1	726.7	645.1	588.6	602.1	604.6	628.2	641.7	617.3	609.7
42.5°	970.1	957.5	899.4	770.5	639.2	633.3	642.5	657.7	689.7	669.5	650.9
45°	1144.4	1138.5	1080.4	936.4	731.0	695.6	690.5	717.5	764.6	742.7	728.4
47.5°	1270.7	1259.0	1226.1	1104.8	865.7	768.8	772.2	799.2	859.0	842.1	846.3
50°	1367.6	1361.7	1327.2	1260.6	1035.8	884.2	877.5	904.4	985.3	996.2	1008.0
52.5°	1473.7	1484.6	1438.3	1381.9	1237.1	1039.2	1024.0	1033.3	1137.7	1163.0	1195.8
55°	1575.6	1593.3	1547.0	1539.4	1447.6	1211.0	1208.4	1186.5	1321.3	1324.6	1342.3
57.5°	1642.1	1636.2	1632.8	1674.1	1658.1	1408.0	1395.4	1373.5	1495.6	1473.7	1526.7
60°	1647.2	1664.0	1720.4	1822.3	1851.0	1639.6	1621.1	1561.3	1646.3	1594.1	1695.2
62.5°	1685.1	1698.5	1803.0	1943.6	1980.6	1843.4	1856.0	1704.4	1775.2	1733.9	1882.1
65°	1589.1	1631.2	1840.8	2037.9	2150.7	2049.7	2037.1	1888.8	1907.4	1868.6	2066.5
67.5°	1502.3	1518.3	1737.3	2066.5	2285.5	2256.9	2251.8	2052.2	2043.8	1972.2	2118.7
70°	1221.1	1240.4	1456.8	1920.0	2331.0	2498.5	2486.7	2281.3	2136.4	1915.8	1851.0
72.5°	699.8	738.5	1009.7	1478.7	2094.3	2565.9	2576.9	2318.3	2027.0	1611.0	1236.2
75°	229.1	240.0	419.4	837.9	1566.3	2238.3	2219.0	1992.4	1635.4	1063.6	558.3
77.5°	77.5	79.2	123.8	303.2	868.2	1512.4	1523.4	1424.0	1004.6	442.1	154.1
80°	39.6	42.1	60.6	113.7	357.1	823.6	841.3	811.8	421.1	130.5	37.1
82.5°	18.5	19.4	35.4	63.2	163.4	323.4	323.4	355.4	149.1	73.3	15.2
85°	6.7	6.7	18.5	36.2	69.1	107.8	108.6	109.5	78.3	54.7	6.7
87.5°	2.5	2.5	9.3	15.2	25.3	32.8	32.8	26.1	39.6	36.2	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P676679

CATALOG NUMBER: CCW-SA-2A-727-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	352.8	352.8	352.8	352.8	352.8	352.8	352.8	352.8	352.8	352.8	352.8
2.5°	354.5	349.5	345.3	339.4	331.8	327.6	328.4	323.4	323.4	320.8	320.0
5°	354.5	349.5	338.5	328.4	321.7	313.3	309.1	305.7	305.7	304.0	304.8
7.5°	357.1	349.5	334.3	320.8	309.9	301.5	294.7	293.9	292.2	288.0	291.4
10°	372.2	361.3	336.0	317.5	304.8	295.6	283.8	280.4	275.4	267.8	268.6
12.5°	384.8	370.5	347.8	322.5	306.5	291.4	264.4	234.9	222.3	208.8	209.7
15°	403.4	383.2	352.0	329.3	306.5	257.7	208.8	170.9	150.7	140.6	140.6
17.5°	413.5	396.6	363.8	333.5	282.1	209.7	148.2	115.4	112.0	113.7	113.7
20°	434.5	411.8	377.3	336.8	241.7	149.1	108.6	105.3	106.9	110.3	109.5
22.5°	448.0	425.3	387.4	321.7	186.9	106.9	101.9	100.2	101.9	106.1	106.1
25°	458.9	444.6	403.4	284.6	132.2	96.8	95.2	96.8	98.5	100.2	102.7
27.5°	485.9	461.5	414.3	236.6	95.2	90.1	91.8	92.6	92.6	95.2	96.0
30°	503.6	484.2	422.7	182.7	84.2	83.4	85.1	85.9	86.7	89.3	90.1
32.5°	520.4	513.7	411.8	123.8	79.2	77.5	76.6	77.5	80.8	83.4	82.5
35°	544.8	540.6	395.8	85.9	74.1	70.7	69.1	69.9	72.4	74.9	74.1
37.5°	574.3	578.5	357.1	74.9	69.1	64.8	61.5	61.5	62.3	64.8	65.7
40°	608.8	619.8	311.6	69.9	65.7	60.6	57.3	53.1	52.2	51.4	52.2
42.5°	672.0	684.6	260.2	66.5	60.6	54.7	49.7	44.6	40.4	37.9	37.9
45°	760.4	750.3	192.8	63.2	58.1	49.7	42.1	36.2	30.3	27.8	27.8
47.5°	882.5	848.0	132.2	59.8	53.9	43.8	35.4	27.8	22.7	20.2	20.2
50°	1051.8	938.1	85.9	56.4	51.4	37.9	28.6	20.2	16.8	16.0	16.8
52.5°	1211.8	1029.9	68.2	52.2	46.3	32.8	21.9	16.8	15.2	14.3	14.3
55°	1359.2	1076.2	60.6	48.0	42.1	26.9	18.5	14.3	13.5	12.6	12.6
57.5°	1483.8	1092.2	52.2	42.1	33.7	21.1	15.2	12.6	10.9	10.1	10.1
60°	1591.6	1096.4	40.4	33.7	24.4	16.0	12.6	10.9	9.3	7.6	7.6
62.5°	1677.5	1067.0	28.6	23.6	16.8	12.6	10.9	7.6	5.1	3.4	2.5
65°	1745.7	1008.0	19.4	16.0	10.9	9.3	6.7	3.4	0.8	0.0	0.0
67.5°	1665.7	874.1	15.2	11.8	7.6	5.9	3.4	0.8	0.0	0.0	0.0
70°	1358.3	677.9	10.9	7.6	5.1	1.7	0.8	0.0	0.0	0.0	0.0
72.5°	924.6	437.1	8.4	5.1	2.5	0.8	0.0	0.0	0.0	0.0	0.0
75°	415.2	156.6	5.9	3.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	101.1	37.1	4.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	26.9	9.3	2.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.1	3.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	0.8	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)