

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: P676576

Luminaire Tested: **CCW-SA-1D-750-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676576
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-750-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) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

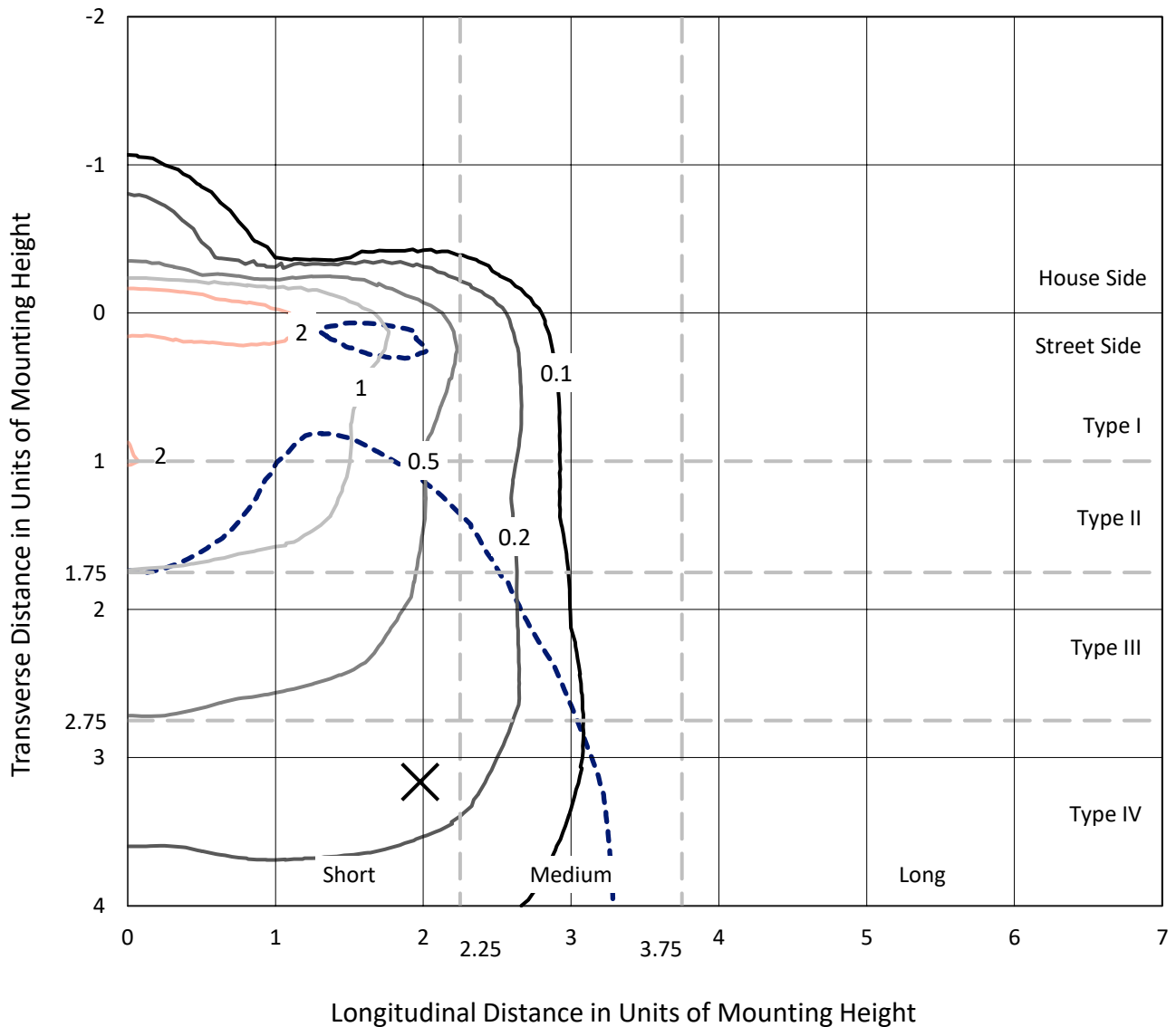
Lumens per Lamp: N/A
Luminaire Lumens: 4096.1 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

REPORT NUMBER: P676576
 CATALOG NUMBER: CCW-SA-1D-750-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

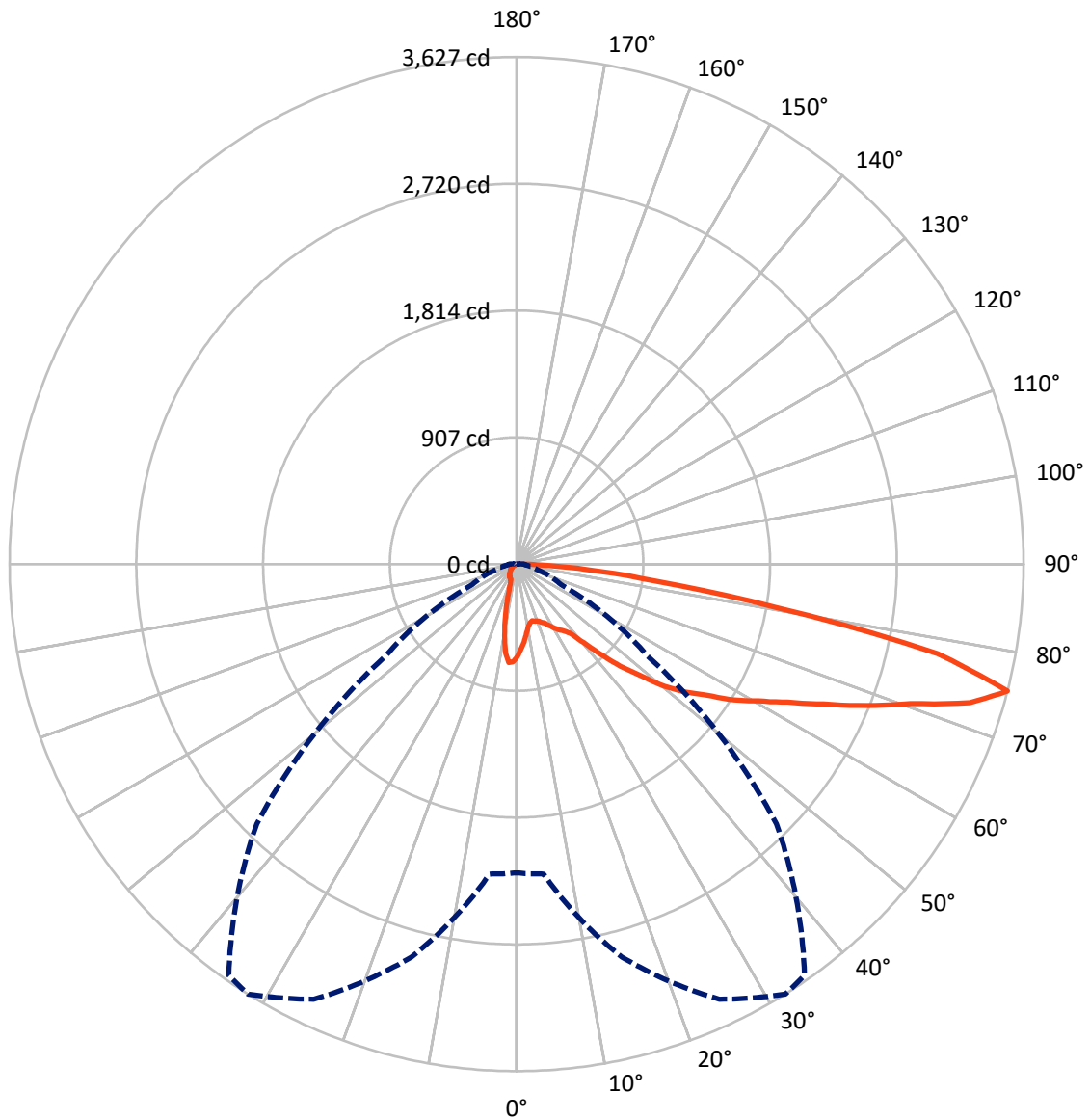
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P676576
CATALOG NUMBER: CCW-SA-1D-750-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	442.5	0.0	442.5
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	3653.7	0.0	3653.7
	% Fixture	89.2	0.0	89.2
Total	Lumens	4096.1	0.0	4096.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.1	1.4
10°-20°	132.0	3.2
20°-30°	197.6	4.8
30°-40°	303.3	7.4
40°-50°	530.4	12.9
50°-60°	829.0	20.2
60°-70°	1071.8	26.2
70°-80°	873.0	21.3
80°-90°	101.0	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°	4096.1	100.0
0°-180°	4096.1	100.0



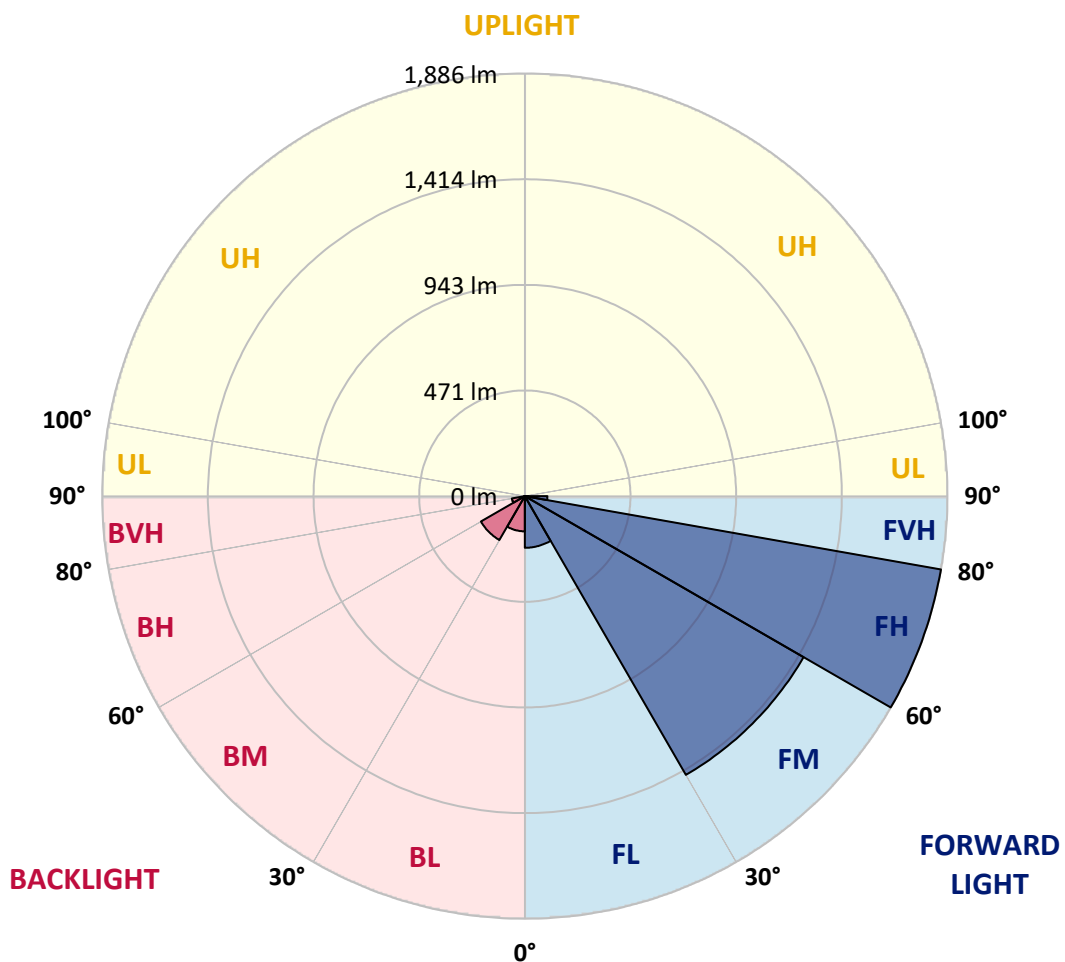
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	230.5	5.6			
FM (30°-60°)	1436.3	35.1			
FH (60°-80°)	1885.9	46.0			G2/5000
FVH (80°-90°)	101.0	2.5			G2/225
BL (0°-30°)	157.2	3.8	B1/500		
BM (30°-60°)	226.4	5.5	B1/1000		
BH (60°-80°)	58.8	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-G2

Type IV Short





REPORT NUMBER: P676576

CATALOG NUMBER: CCW-SA-1D-750-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	661.4	661.4	661.4	661.4	661.4	661.4	661.4	661.4	661.4	661.4	661.4
2.5°	593.2	601.6	600.5	605.8	606.8	610.0	617.3	617.3	638.3	653.0	662.5
5°	539.6	534.4	536.5	542.8	558.5	557.5	575.3	584.8	610.0	631.0	653.0
7.5°	473.5	472.4	476.6	491.3	502.9	512.3	531.2	555.4	589.0	620.5	659.3
10°	431.5	429.4	437.8	442.0	455.6	461.9	491.3	529.1	569.0	614.2	659.3
12.5°	422.0	414.7	418.9	417.8	430.4	433.6	461.9	508.1	556.4	612.1	667.7
15°	427.3	422.0	417.8	417.8	421.0	423.1	453.5	494.5	549.1	615.2	686.6
17.5°	444.1	440.9	428.3	415.7	429.4	429.4	448.3	491.3	550.1	624.7	709.7
20°	464.0	460.9	438.8	424.1	433.6	444.1	464.0	498.7	553.3	632.0	745.4
22.5°	486.1	486.1	455.6	438.8	451.4	452.5	488.2	521.8	565.9	650.9	768.5
25°	513.4	511.3	481.9	463.0	467.2	478.7	511.3	547.0	589.0	677.2	811.5
27.5°	549.1	545.9	511.3	492.4	497.6	510.2	547.0	582.7	610.0	687.7	848.3
30°	578.5	575.3	547.0	518.6	530.2	541.7	584.8	616.3	636.2	707.6	890.3
32.5°	584.8	579.5	560.6	548.0	560.6	582.7	616.3	648.8	679.3	758.0	970.1
35°	657.2	638.3	589.0	569.0	587.9	595.3	650.9	708.6	738.0	797.9	1059.3
37.5°	795.8	777.9	712.8	657.2	631.0	639.4	711.8	783.2	811.5	872.4	1156.9
40°	965.9	936.5	867.2	792.6	739.1	728.6	775.8	880.8	908.1	965.9	1285.0
42.5°	1160.1	1131.7	1024.7	936.5	881.9	868.2	875.6	994.2	1017.3	1051.9	1369.0
45°	1299.7	1285.0	1164.3	1085.5	1042.5	1027.8	1010.0	1118.1	1147.5	1159.0	1490.8
47.5°	1380.6	1370.1	1302.9	1249.3	1191.6	1175.8	1187.4	1290.3	1270.3	1279.8	1607.3
50°	1488.7	1461.4	1370.1	1386.9	1375.3	1371.1	1391.1	1436.2	1406.8	1379.5	1734.4
52.5°	1575.8	1527.5	1463.5	1504.4	1522.3	1538.0	1608.4	1642.0	1510.7	1468.7	1816.2
55°	1629.4	1583.2	1600.0	1637.8	1656.7	1729.1	1812.0	1786.8	1579.0	1540.1	1925.4
57.5°	1677.7	1680.8	1726.0	1737.5	1834.1	1846.7	2006.3	1924.4	1627.3	1605.2	1968.5
60°	1794.2	1782.6	1819.4	1893.9	1986.3	2056.7	2208.9	2016.8	1651.4	1638.8	1956.9
62.5°	2004.2	1932.8	1945.4	2039.9	2175.3	2251.9	2325.4	2058.8	1645.1	1644.1	1922.3
65°	2270.8	2188.9	2151.1	2239.3	2414.7	2522.8	2456.6	2106.0	1603.1	1632.5	1793.1
67.5°	2492.3	2493.4	2423.1	2472.4	2701.3	2724.4	2580.5	2096.5	1532.8	1541.2	1478.2
70°	2747.5	2782.1	2720.2	2874.5	2988.9	3003.6	2722.3	2018.9	1381.6	1162.2	849.3
72.5°	2812.5	2830.4	3023.6	3260.8	3390.0	3394.2	2861.9	1759.5	909.2	513.4	263.5
75°	2208.9	2225.7	2910.2	3435.1	3627.2	3590.5	2628.8	1142.2	353.8	150.1	63.0
77.5°	1232.5	1237.8	1806.8	2776.9	3077.1	2929.1	1841.4	445.1	142.8	86.1	29.4
80°	337.0	395.8	669.8	1369.0	1879.2	1844.6	876.6	144.9	92.4	67.2	13.6
82.5°	80.8	87.1	215.2	605.8	993.2	1036.2	261.4	73.5	64.0	55.6	7.3
85°	29.4	32.5	66.1	295.0	510.2	468.2	78.7	36.7	47.2	43.0	3.1
87.5°	10.5	10.5	21.0	96.6	149.1	112.3	26.2	12.6	24.1	26.2	1.0
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°	661.4	661.4	661.4	661.4	661.4	661.4	661.4	661.4	661.4	661.4	661.4
2.5°	663.5	663.5	678.2	690.8	695.0	700.2	695.0	706.5	705.5	700.2	702.3
5°	664.6	683.5	696.1	704.4	708.6	707.6	709.7	697.1	689.8	684.5	679.3
7.5°	669.8	687.7	710.7	708.6	697.1	673.0	654.1	620.5	587.9	586.9	581.6
10°	687.7	703.4	717.0	708.6	666.7	593.2	533.3	488.2	447.2	428.3	430.4
12.5°	700.2	729.6	723.3	680.3	593.2	496.6	408.4	342.3	305.5	270.9	270.9
15°	726.5	737.0	734.9	639.4	502.9	387.4	280.3	213.1	174.3	158.5	156.4
17.5°	751.7	763.2	727.5	577.4	413.6	260.4	170.1	132.3	127.0	124.9	126.0
20°	783.2	784.2	721.2	515.5	310.8	164.8	121.8	118.6	119.7	118.6	118.6
22.5°	816.8	824.1	699.2	428.3	206.8	119.7	113.4	114.4	114.4	114.4	117.6
25°	860.9	849.3	664.6	345.4	135.4	110.2	110.2	111.3	111.3	111.3	112.3
27.5°	890.3	874.5	620.5	248.8	106.0	103.9	106.0	106.0	108.1	108.1	108.1
30°	951.2	910.2	564.8	160.6	95.5	98.7	100.8	102.9	103.9	106.0	107.1
32.5°	998.4	941.7	495.5	107.1	87.1	89.2	94.5	98.7	102.9	101.8	101.8
35°	1084.5	993.2	431.5	85.0	79.8	79.8	85.0	92.4	98.7	100.8	100.8
37.5°	1183.2	1035.2	342.3	77.7	73.5	73.5	76.6	85.0	93.4	97.6	95.5
40°	1265.1	1083.4	253.0	72.4	68.2	68.2	70.3	76.6	86.1	93.4	94.5
42.5°	1322.8	1119.1	171.1	67.2	64.0	63.0	66.1	69.3	76.6	87.1	89.2
45°	1375.3	1138.0	106.0	61.9	59.8	59.8	59.8	63.0	68.2	77.7	79.8
47.5°	1468.7	1159.0	76.6	57.7	54.6	55.6	56.7	57.7	61.9	64.0	65.1
50°	1547.5	1174.8	63.0	53.5	51.4	52.5	52.5	52.5	54.6	51.4	51.4
52.5°	1607.3	1159.0	53.5	49.3	47.2	48.3	47.2	47.2	45.1	40.9	40.9
55°	1651.4	1130.7	43.0	45.1	45.1	45.1	43.0	39.9	35.7	32.5	32.5
57.5°	1663.0	1082.4	33.6	37.8	40.9	40.9	36.7	32.5	27.3	24.1	23.1
60°	1645.1	977.4	25.2	27.3	31.5	32.5	29.4	24.1	18.9	15.7	15.7
62.5°	1581.1	894.5	19.9	17.8	23.1	24.1	21.0	15.7	10.5	7.3	6.3
65°	1459.3	766.4	14.7	12.6	15.7	16.8	13.6	7.3	3.1	1.0	0.0
67.5°	1170.6	577.4	9.4	8.4	10.5	10.5	6.3	2.1	0.0	0.0	0.0
70°	647.8	324.4	6.3	4.2	5.2	3.1	1.0	0.0	0.0	0.0	0.0
72.5°	186.9	92.4	3.1	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	50.4	22.0	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	22.0	8.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	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)