

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: P676569

Luminaire Tested: **CCW-SA-2B-740-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676569
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-740-U-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
T4FT distribution lens and House Side Shield
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

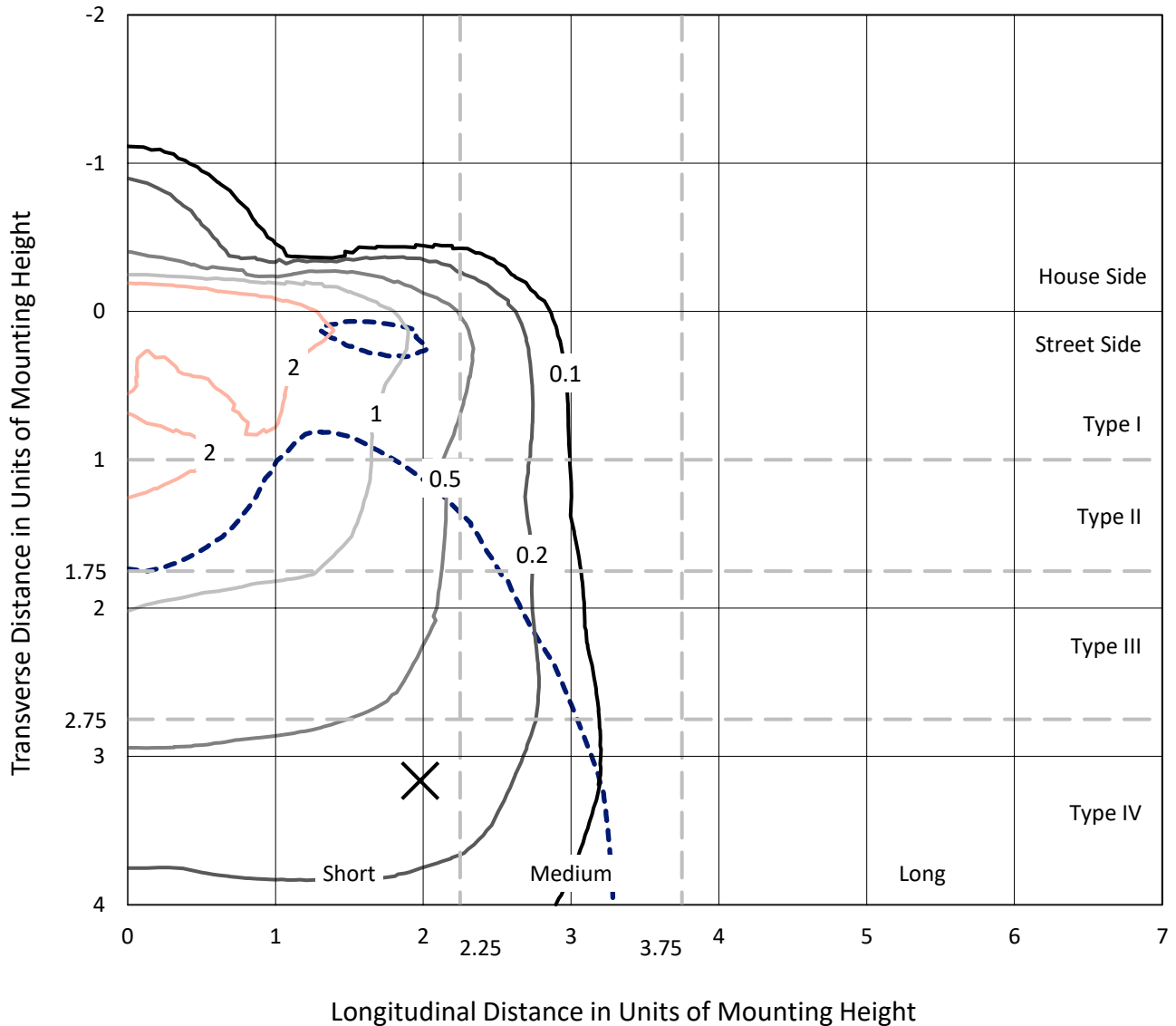
Lumens per Lamp: N/A
Luminaire Lumens: 4959 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 46
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: P676569
 CATALOG NUMBER: CCW-SA-2B-740-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

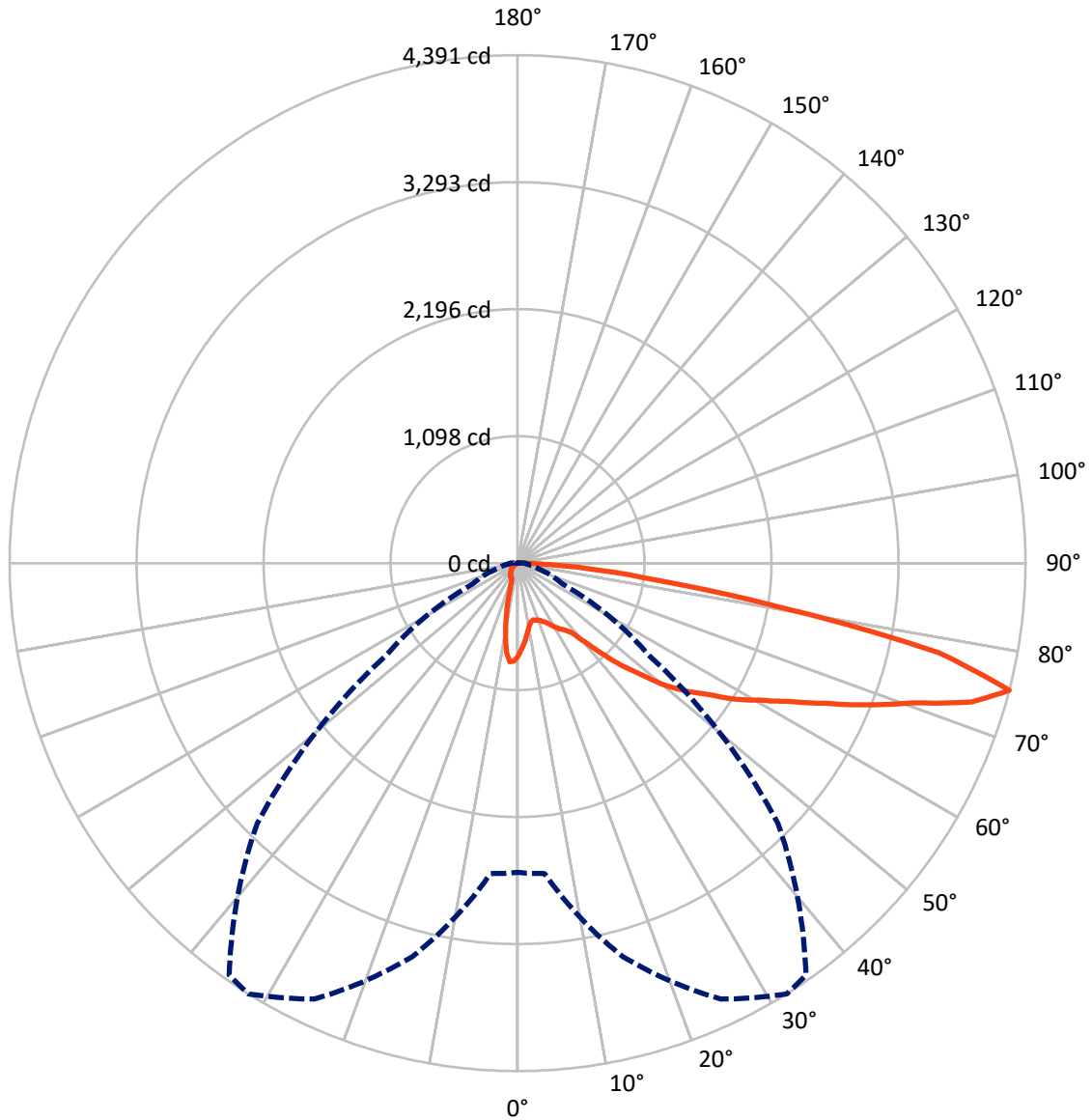
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P676569
CATALOG NUMBER: CCW-SA-2B-740-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	535.7	0.0	535.7
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	4423.3	0.0	4423.3
	% Fixture	89.2	0.0	89.2
Total	Lumens	4959.0	0.0	4959.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	1.4
10°-20°	159.7	3.2
20°-30°	239.2	4.8
30°-40°	367.2	7.4
40°-50°	642.1	12.9
50°-60°	1003.7	20.2
60°-70°	1297.6	26.2
70°-80°	1056.9	21.3
80°-90°	122.3	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°	4959.0	100.0
0°-180°	4959.0	100.0



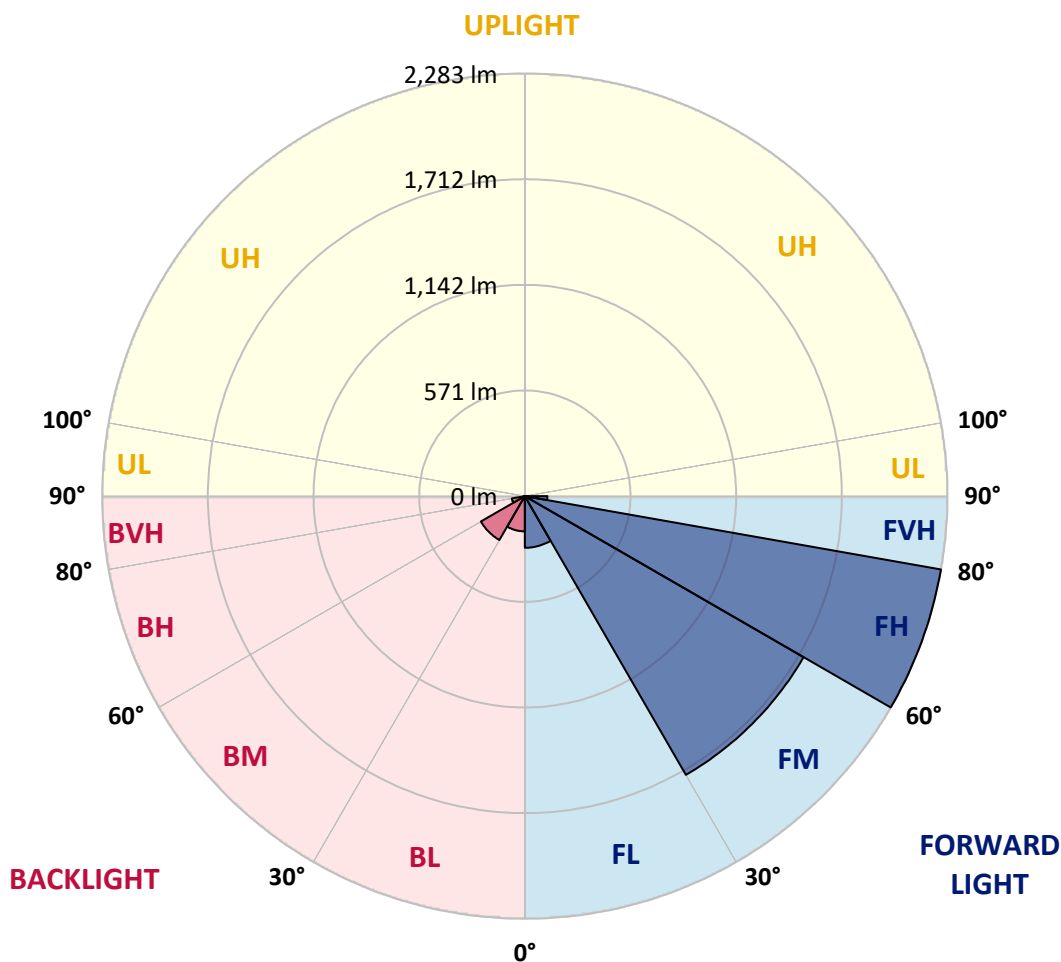
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	279.0	5.6			
FM (30°-60°)	1738.8	35.1			
FH (60°-80°)	2283.2	46.0			G2/5000
FVH (80°-90°)	122.2	2.5			G2/225
BL (0°-30°)	190.3	3.8	B1/500		
BM (30°-60°)	274.1	5.5	B1/1000		
BH (60°-80°)	71.3	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: P676569

CATALOG NUMBER: CCW-SA-2B-740-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7
2.5°	718.1	728.3	727.0	733.4	734.6	738.4	747.3	747.3	772.8	790.6	802.0
5°	653.3	646.9	649.5	657.1	676.2	674.9	696.5	707.9	738.4	763.9	790.6
7.5°	573.2	571.9	577.0	594.8	608.8	620.2	643.1	672.4	713.0	751.2	798.2
10°	522.4	519.8	530.0	535.1	551.6	559.2	594.8	640.6	688.9	743.5	798.2
12.5°	510.9	502.0	507.1	505.9	521.1	524.9	559.2	615.2	673.6	741.0	808.3
15°	517.3	510.9	505.9	505.9	509.7	512.2	549.1	598.6	664.7	744.8	831.2
17.5°	537.6	533.8	518.6	503.3	519.8	519.8	542.7	594.8	666.0	756.2	859.2
20°	561.8	558.0	531.3	513.5	524.9	537.6	561.8	603.7	669.8	765.1	902.4
22.5°	588.5	588.5	551.6	531.3	546.5	547.8	591.0	631.7	685.1	788.0	930.4
25°	621.5	619.0	583.4	560.5	565.6	579.6	619.0	662.2	713.0	819.8	982.5
27.5°	664.7	660.9	619.0	596.1	602.4	617.7	662.2	705.4	738.4	832.5	1027.0
30°	700.3	696.5	662.2	627.9	641.8	655.8	707.9	746.1	770.2	856.6	1077.8
32.5°	707.9	701.6	678.7	663.5	678.7	705.4	746.1	785.5	822.3	917.7	1174.4
35°	795.6	772.8	713.0	688.9	711.8	720.6	788.0	857.9	893.5	966.0	1282.4
37.5°	963.4	941.8	863.0	795.6	763.9	774.0	861.7	948.2	982.5	1056.2	1400.6
40°	1169.3	1133.7	1049.8	959.6	894.8	882.1	939.3	1066.4	1099.4	1169.3	1555.7
42.5°	1404.4	1370.1	1240.5	1133.7	1067.6	1051.1	1060.0	1203.6	1231.6	1273.5	1657.4
45°	1573.5	1555.7	1409.5	1314.2	1262.1	1244.3	1222.7	1353.6	1389.2	1403.2	1804.8
47.5°	1671.3	1658.6	1577.3	1512.5	1442.6	1423.5	1437.5	1562.0	1537.9	1549.3	1945.9
50°	1802.3	1769.2	1658.6	1679.0	1665.0	1659.9	1684.1	1738.7	1703.1	1670.1	2099.7
52.5°	1907.8	1849.3	1771.8	1821.3	1842.9	1862.0	1947.2	1987.8	1829.0	1778.1	2198.8
55°	1972.6	1916.6	1937.0	1982.7	2005.6	2093.3	2193.7	2163.2	1911.6	1864.5	2331.0
57.5°	2031.0	2034.9	2089.5	2103.5	2220.4	2235.7	2428.9	2329.7	1970.0	1943.3	2383.1
60°	2172.1	2158.1	2202.6	2292.9	2404.7	2489.9	2674.2	2441.6	1999.3	1984.0	2369.1
62.5°	2426.3	2339.9	2355.1	2469.5	2633.5	2726.3	2815.2	2492.4	1991.6	1990.4	2327.2
65°	2749.1	2650.0	2604.3	2711.0	2923.3	3054.2	2974.1	2549.6	1940.8	1976.4	2170.8
67.5°	3017.3	3018.6	2933.4	2993.2	3270.2	3298.2	3124.1	2538.2	1855.6	1865.8	1789.5
70°	3326.2	3368.1	3293.1	3480.0	3618.5	3636.3	3295.7	2444.1	1672.6	1407.0	1028.2
72.5°	3405.0	3426.6	3660.4	3947.7	4104.0	4109.1	3464.7	2130.2	1100.7	621.5	319.0
75°	2674.2	2694.5	3523.2	4158.7	4391.3	4346.8	3182.6	1382.8	428.3	181.8	76.3
77.5°	1492.1	1498.5	2187.4	3361.8	3725.3	3546.1	2229.3	538.9	172.9	104.2	35.6
80°	408.0	479.2	810.9	1657.4	2275.1	2233.1	1061.3	175.4	111.8	81.3	16.5
82.5°	97.9	105.5	260.6	733.4	1202.4	1254.5	316.5	89.0	77.5	67.4	8.9
85°	35.6	39.4	80.1	357.1	617.7	566.9	95.3	44.5	57.2	52.1	3.8
87.5°	12.7	12.7	25.4	116.9	180.5	136.0	31.8	15.3	29.2	31.8	1.3
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: P676569

CATALOG NUMBER: CCW-SA-2B-740-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7	800.7
2.5°	803.3	803.3	821.1	836.3	841.4	847.7	841.4	855.4	854.1	847.7	850.3
5°	804.5	827.4	842.7	852.8	857.9	856.6	859.2	843.9	835.0	828.7	822.3
7.5°	810.9	832.5	860.5	857.9	843.9	814.7	791.8	751.2	711.8	710.5	704.1
10°	832.5	851.6	868.1	857.9	807.1	718.1	645.7	591.0	541.4	518.6	521.1
12.5°	847.7	883.3	875.7	823.6	718.1	601.2	494.4	414.3	369.9	327.9	327.9
15°	879.5	892.2	889.7	774.0	608.8	469.0	339.4	258.0	211.0	191.9	189.4
17.5°	910.0	924.0	880.8	699.0	500.8	315.2	205.9	160.1	153.8	151.2	152.5
20°	948.2	949.4	873.2	624.1	376.2	199.5	147.4	143.6	144.9	143.6	143.6
22.5°	988.8	997.7	846.5	518.6	250.4	144.9	137.3	138.5	138.5	138.5	142.4
25°	1042.2	1028.2	804.5	418.2	164.0	133.5	133.5	134.7	134.7	134.7	136.0
27.5°	1077.8	1058.7	751.2	301.2	128.4	125.8	128.4	128.4	130.9	130.9	130.9
30°	1151.5	1101.9	683.8	194.5	115.7	119.5	122.0	124.6	125.8	128.4	129.6
32.5°	1208.7	1140.1	599.9	129.6	105.5	108.0	114.4	119.5	124.6	123.3	123.3
35°	1312.9	1202.4	522.4	102.9	96.6	96.6	102.9	111.8	119.5	122.0	122.0
37.5°	1432.4	1253.2	414.3	94.1	89.0	89.0	92.8	102.9	113.1	118.2	115.7
40°	1531.5	1311.7	306.3	87.7	82.6	82.6	85.2	92.8	104.2	113.1	114.4
42.5°	1601.4	1354.9	207.2	81.3	77.5	76.3	80.1	83.9	92.8	105.5	108.0
45°	1665.0	1377.7	128.4	75.0	72.4	72.4	72.4	76.3	82.6	94.1	96.6
47.5°	1778.1	1403.2	92.8	69.9	66.1	67.4	68.6	69.9	75.0	77.5	78.8
50°	1873.4	1422.2	76.3	64.8	62.3	63.5	63.5	63.5	66.1	62.3	62.3
52.5°	1945.9	1403.2	64.8	59.7	57.2	58.5	57.2	57.2	54.7	49.6	49.6
55°	1999.3	1368.9	52.1	54.7	54.7	54.7	52.1	48.3	43.2	39.4	39.4
57.5°	2013.2	1310.4	40.7	45.8	49.6	49.6	44.5	39.4	33.0	29.2	28.0
60°	1991.6	1183.3	30.5	33.0	38.1	39.4	35.6	29.2	22.9	19.1	19.1
62.5°	1914.1	1082.9	24.1	21.6	28.0	29.2	25.4	19.1	12.7	8.9	7.6
65°	1766.7	927.8	17.8	15.3	19.1	20.3	16.5	8.9	3.8	1.3	0.0
67.5°	1417.2	699.0	11.4	10.2	12.7	12.7	7.6	2.5	0.0	0.0	0.0
70°	784.2	392.7	7.6	5.1	6.4	3.8	1.3	0.0	0.0	0.0	0.0
72.5°	226.2	111.8	3.8	2.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	61.0	26.7	2.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	26.7	10.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	11.4	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	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)