

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: P676566

Luminaire Tested: **CCW-SA-1E-740-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676566
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-740-U-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
T4FT distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

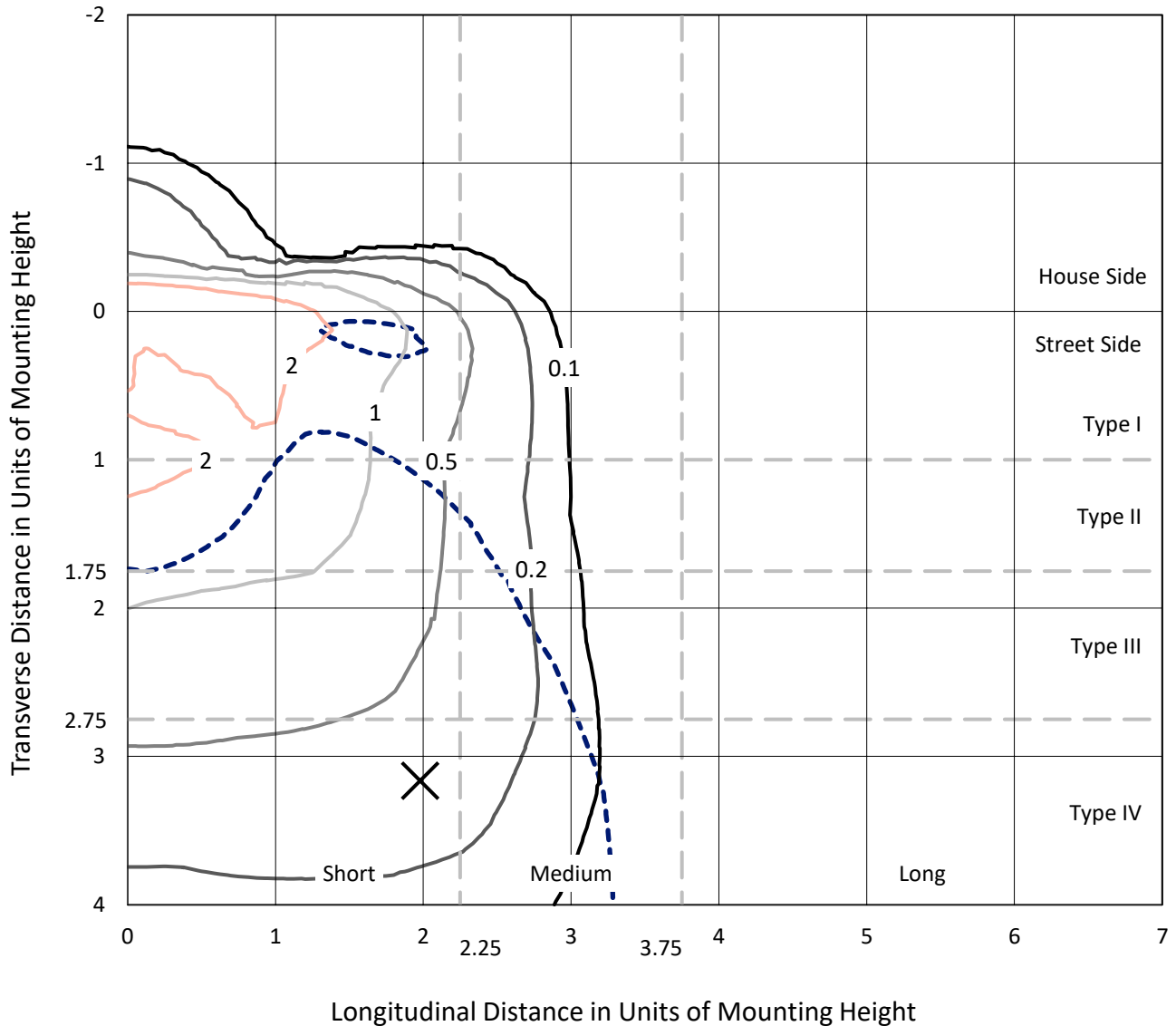
Lumens per Lamp: N/A
Luminaire Lumens: 4909.3 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1
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

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Iso-Footcandle Lines of Horizontal Illumination

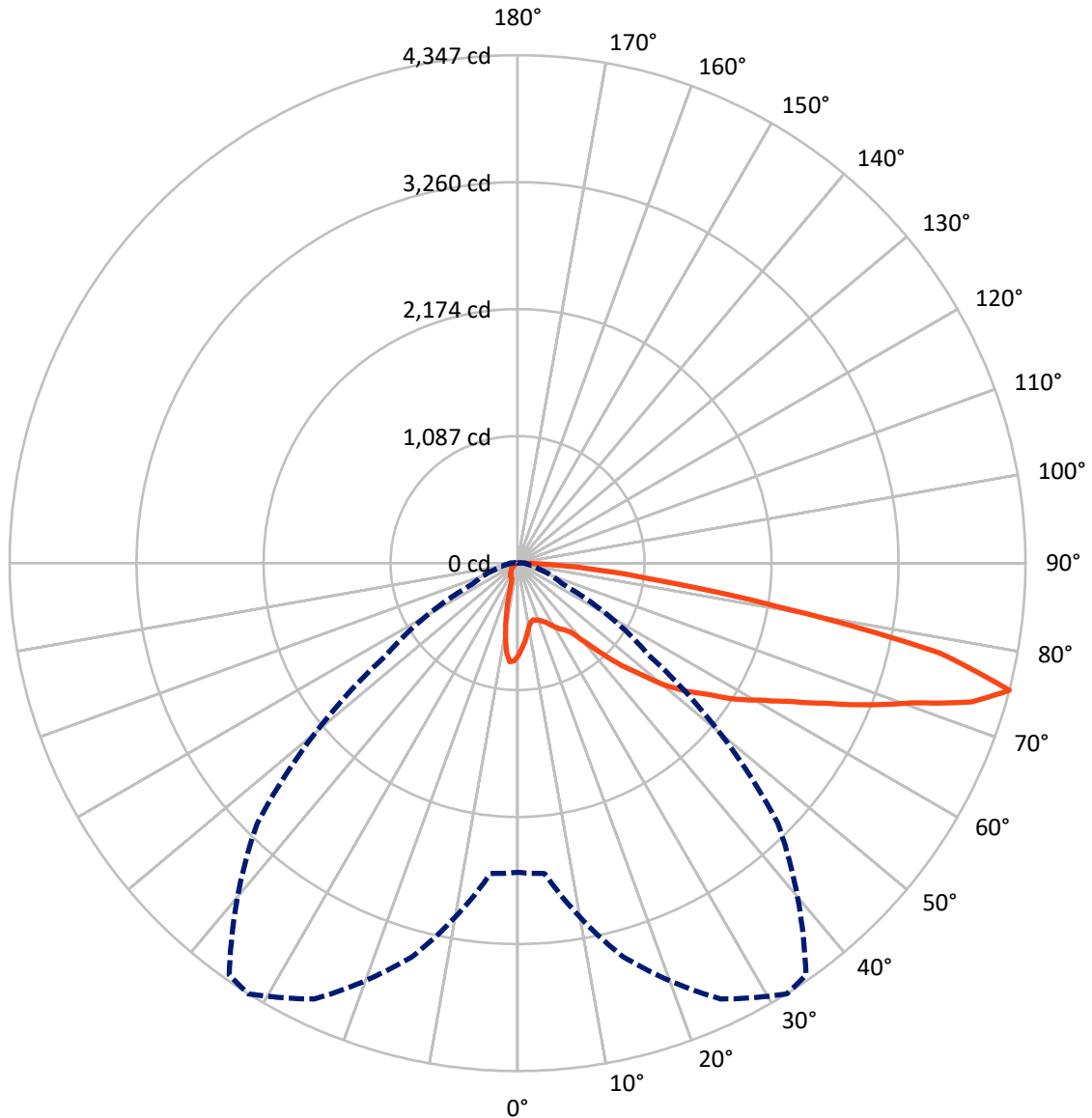
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - N/A

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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	530.4	0.0	530.4
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	4379.0	0.0	4379.0
	% Fixture	89.2	0.0	89.2
Total	Lumens	4909.3	0.0	4909.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.7	1.4
10°-20°	158.1	3.2
20°-30°	236.8	4.8
30°-40°	363.5	7.4
40°-50°	635.7	12.9
50°-60°	993.6	20.2
60°-70°	1284.6	26.2
70°-80°	1046.3	21.3
80°-90°	121.1	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°	4909.3	100.0
0°-180°	4909.3	100.0



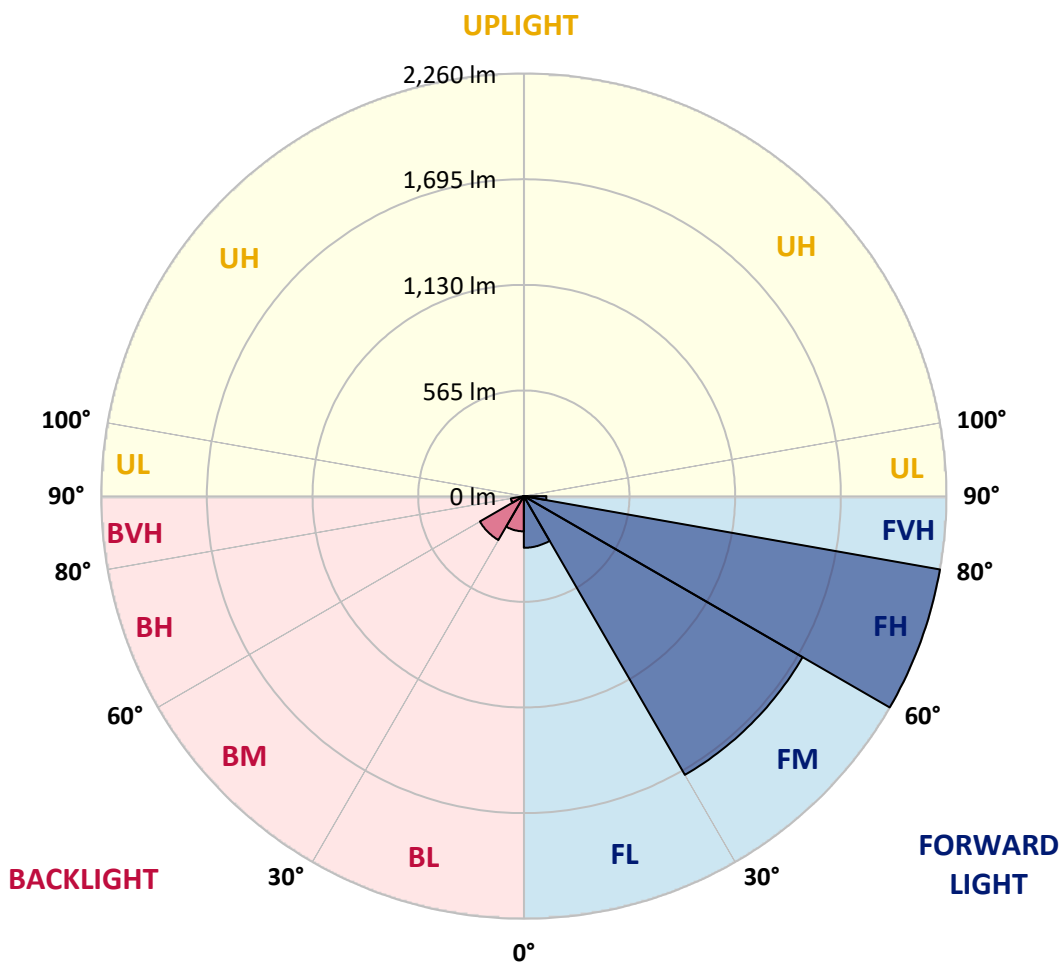
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	276.2	5.6			
FM (30°-60°)	1721.4	35.1			
FH (60°-80°)	2260.3	46.0			G2/5000
FVH (80°-90°)	121.0	2.5			G2/225
BL (0°-30°)	188.4	3.8	B1/500		
BM (30°-60°)	271.3	5.5	B1/1000		
BH (60°-80°)	70.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	792.7	792.7	792.7	792.7	792.7	792.7	792.7	792.7	792.7	792.7	792.7
2.5°	710.9	721.0	719.7	726.0	727.3	731.0	739.9	739.9	765.0	782.6	794.0
5°	646.7	640.5	643.0	650.5	669.4	668.1	689.5	700.8	731.0	756.2	782.6
7.5°	567.5	566.2	571.2	588.9	602.7	614.0	636.7	665.6	705.9	743.6	790.2
10°	517.1	514.6	524.7	529.7	546.1	553.6	588.9	634.2	682.0	736.1	790.2
12.5°	505.8	497.0	502.0	500.8	515.9	519.7	553.6	609.0	666.9	733.6	800.3
15°	512.1	505.8	500.8	500.8	504.6	507.1	543.6	592.6	658.1	737.3	822.9
17.5°	532.2	528.5	513.4	498.3	514.6	514.6	537.3	588.9	659.3	748.7	850.6
20°	556.1	552.4	526.0	508.3	519.7	532.2	556.1	597.7	663.1	757.5	893.4
22.5°	582.6	582.6	546.1	526.0	541.1	542.3	585.1	625.4	678.2	780.1	921.0
25°	615.3	612.8	577.5	554.9	559.9	573.8	612.8	655.6	705.9	811.6	972.6
27.5°	658.1	654.3	612.8	590.1	596.4	611.5	655.6	698.3	731.0	824.2	1016.7
30°	693.3	689.5	655.6	621.6	635.4	649.3	700.8	738.6	762.5	848.1	1067.0
32.5°	700.8	694.6	671.9	656.8	671.9	698.3	738.6	777.6	814.1	908.5	1162.6
35°	787.7	765.0	705.9	682.0	704.6	713.4	780.1	849.3	884.6	956.3	1269.6
37.5°	953.8	932.4	854.4	787.7	756.2	766.3	853.1	938.7	972.6	1045.6	1386.6
40°	1157.6	1122.4	1039.3	950.0	885.8	873.2	929.9	1055.7	1088.4	1157.6	1540.1
42.5°	1390.4	1356.4	1228.1	1122.4	1056.9	1040.6	1049.4	1191.6	1219.3	1260.8	1640.8
45°	1557.7	1540.1	1395.4	1301.0	1249.4	1231.8	1210.4	1340.0	1375.3	1389.1	1786.7
47.5°	1654.6	1642.0	1561.5	1497.3	1428.1	1409.2	1423.1	1546.4	1522.5	1533.8	1926.4
50°	1784.2	1751.5	1642.0	1662.2	1648.3	1643.3	1667.2	1721.3	1686.1	1653.3	2078.6
52.5°	1888.6	1830.8	1754.0	1803.1	1824.5	1843.3	1927.6	1967.9	1810.6	1760.3	2176.8
55°	1952.8	1897.5	1917.6	1962.9	1985.5	2072.3	2171.8	2141.6	1892.4	1845.9	2307.6
57.5°	2010.7	2014.5	2068.6	2082.4	2198.2	2213.3	2404.5	2306.4	1950.3	1923.9	2359.2
60°	2150.4	2136.5	2180.6	2269.9	2380.6	2464.9	2647.4	2417.1	1979.2	1964.1	2345.4
62.5°	2402.0	2316.5	2331.5	2444.8	2607.1	2699.0	2787.0	2467.4	1971.7	1970.4	2303.9
65°	2721.6	2623.5	2578.2	2683.9	2894.0	3023.6	2944.3	2524.1	1921.4	1956.6	2149.1
67.5°	2987.1	2988.4	2904.1	2963.2	3237.5	3265.2	3092.8	2512.7	1837.1	1847.1	1771.6
70°	3292.9	3334.4	3260.1	3445.1	3582.3	3599.9	3262.7	2419.6	1655.9	1392.9	1017.9
72.5°	3370.9	3392.3	3623.8	3908.1	4062.9	4067.9	3430.0	2108.8	1089.7	615.3	315.8
75°	2647.4	2667.5	3487.9	4117.0	4347.3	4303.2	3150.7	1369.0	424.0	179.9	75.5
77.5°	1477.2	1483.5	2165.5	3328.1	3688.0	3510.5	2207.0	533.5	171.1	103.2	35.2
80°	403.9	474.4	802.8	1640.8	2252.3	2210.8	1050.6	173.6	110.7	80.5	16.4
82.5°	96.9	104.4	257.9	726.0	1190.3	1241.9	313.3	88.1	76.8	66.7	8.8
85°	35.2	39.0	79.3	353.6	611.5	561.2	94.4	44.0	56.6	51.6	3.8
87.5°	12.6	12.6	25.2	115.8	178.7	134.6	31.5	15.1	28.9	31.5	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	792.7	792.7	792.7	792.7	792.7	792.7	792.7	792.7	792.7	792.7	792.7
2.5°	795.2	795.2	812.8	827.9	833.0	839.3	833.0	846.8	845.5	839.3	841.8
5°	796.5	819.1	834.2	844.3	849.3	848.1	850.6	835.5	826.7	820.4	814.1
7.5°	802.8	824.2	851.8	849.3	835.5	806.5	783.9	743.6	704.6	703.4	697.1
10°	824.2	843.0	859.4	849.3	799.0	710.9	639.2	585.1	536.0	513.4	515.9
12.5°	839.3	874.5	866.9	815.4	710.9	595.2	489.5	410.2	366.2	324.6	324.6
15°	870.7	883.3	880.8	766.3	602.7	464.3	336.0	255.4	208.9	190.0	187.5
17.5°	900.9	914.8	872.0	692.0	495.8	312.0	203.8	158.5	152.2	149.7	151.0
20°	938.7	939.9	864.4	617.8	372.4	197.5	146.0	142.2	143.4	142.2	142.2
22.5°	978.9	987.7	838.0	513.4	247.9	143.4	135.9	137.1	137.1	137.1	140.9
25°	1031.8	1017.9	796.5	414.0	162.3	132.1	132.1	133.4	133.4	133.4	134.6
27.5°	1067.0	1048.1	743.6	298.2	127.1	124.6	127.1	127.1	129.6	129.6	129.6
30°	1140.0	1090.9	676.9	192.5	114.5	118.3	120.8	123.3	124.6	127.1	128.3
32.5°	1196.6	1128.7	593.9	128.3	104.4	107.0	113.2	118.3	123.3	122.1	122.1
35°	1299.8	1190.3	517.1	101.9	95.6	95.6	101.9	110.7	118.3	120.8	120.8
37.5°	1418.1	1240.6	410.2	93.1	88.1	88.1	91.9	101.9	112.0	117.0	114.5
40°	1516.2	1298.5	303.2	86.8	81.8	81.8	84.3	91.9	103.2	112.0	113.2
42.5°	1585.4	1341.3	205.1	80.5	76.8	75.5	79.3	83.0	91.9	104.4	107.0
45°	1648.3	1364.0	127.1	74.2	71.7	71.7	71.7	75.5	81.8	93.1	95.6
47.5°	1760.3	1389.1	91.9	69.2	65.4	66.7	67.9	69.2	74.2	76.8	78.0
50°	1854.7	1408.0	75.5	64.2	61.7	62.9	62.9	62.9	65.4	61.7	61.7
52.5°	1926.4	1389.1	64.2	59.1	56.6	57.9	56.6	56.6	54.1	49.1	49.1
55°	1979.2	1355.1	51.6	54.1	54.1	54.1	51.6	47.8	42.8	39.0	39.0
57.5°	1993.1	1297.3	40.3	45.3	49.1	49.1	44.0	39.0	32.7	28.9	27.7
60°	1971.7	1171.4	30.2	32.7	37.7	39.0	35.2	28.9	22.6	18.9	18.9
62.5°	1894.9	1072.0	23.9	21.4	27.7	28.9	25.2	18.9	12.6	8.8	7.5
65°	1749.0	918.5	17.6	15.1	18.9	20.1	16.4	8.8	3.8	1.3	0.0
67.5°	1403.0	692.0	11.3	10.1	12.6	12.6	7.5	2.5	0.0	0.0	0.0
70°	776.3	388.8	7.5	5.0	6.3	3.8	1.3	0.0	0.0	0.0	0.0
72.5°	224.0	110.7	3.8	2.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	60.4	26.4	2.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	26.4	10.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	11.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.3	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)