

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: P673623

Luminaire Tested: **CCP-SA-2B-840-U-T4W-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P673623
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2B-840-U-T4W-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ T4W distribution lens and House Side Shield
Light Source: (32) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

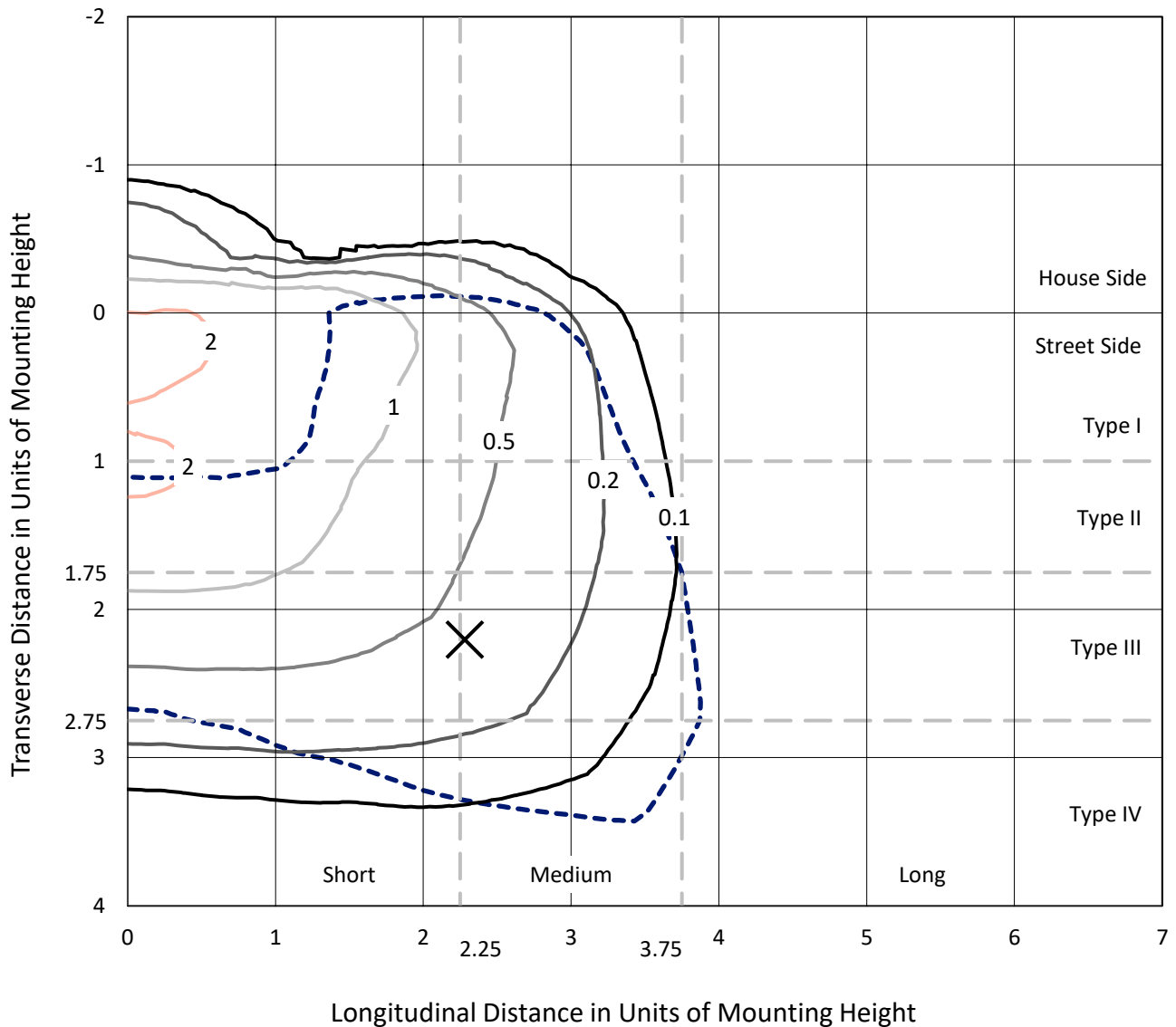
Lumens per Lamp: N/A
Luminaire Lumens: 4248.2 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 46
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

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Iso-Footcandle Lines of Horizontal Illumination

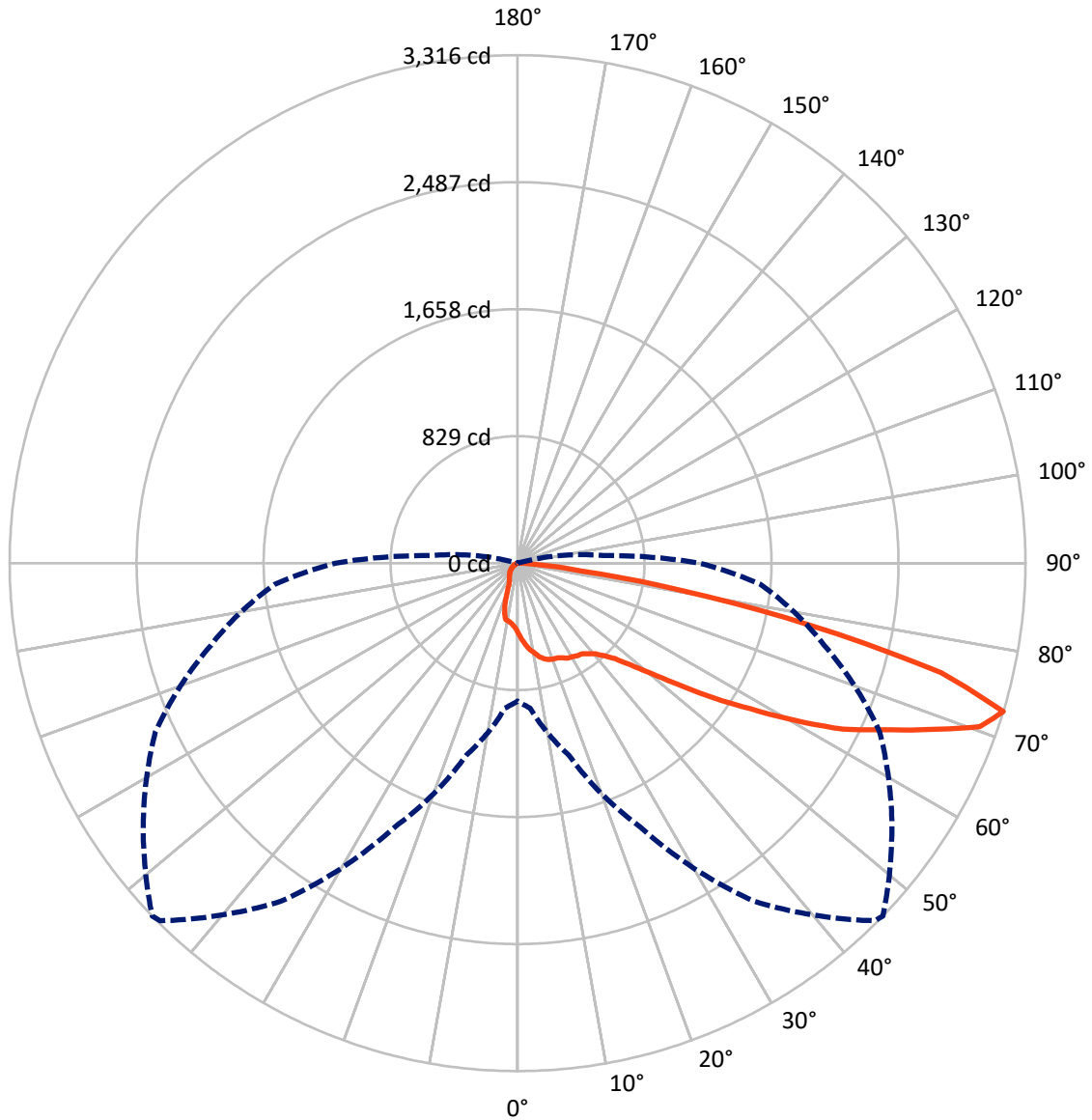
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	457.4	0.0	457.4
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	3790.9	0.0	3790.9
	% Fixture	89.2	0.0	89.2
Total	Lumens	4248.2	0.0	4248.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.4	1.1
10°-20°	137.2	3.2
20°-30°	214.8	5.1
30°-40°	300.8	7.1
40°-50°	496.0	11.7
50°-60°	891.5	21.0
60°-70°	1292.1	30.4
70°-80°	806.4	19.0
80°-90°	63.9	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°	4248.2	100.0
0°-180°	4248.2	100.0



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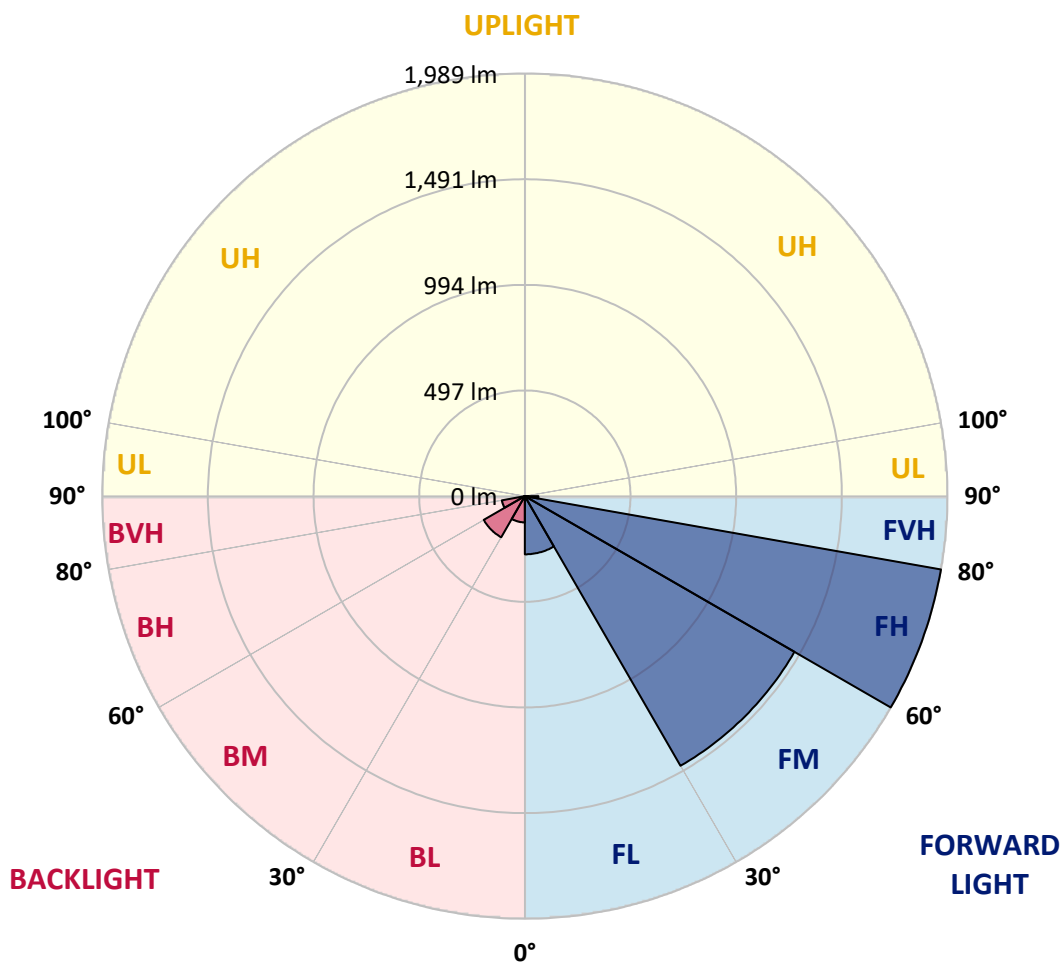
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	273.8	6.4			
FM (30°-60°)	1464.9	34.5			
FH (60°-80°)	1988.6	46.8			G2/5000
FVH (80°-90°)	63.6	1.5			G1/100
BL (0°-30°)	123.6	2.9	B1/500		
BM (30°-60°)	223.4	5.3	B1/1000		
BH (60°-80°)	110.0	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: B1-U0-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	454.0	454.0	454.0	454.0	454.0	454.0	454.0	454.0	454.0	454.0	454.0
2.5°	508.2	506.0	509.3	508.2	495.2	497.4	496.3	487.6	472.5	463.8	458.4
5°	566.7	572.1	567.8	558.1	550.5	535.3	533.1	519.1	495.2	480.0	463.8
7.5°	627.4	627.4	618.7	603.6	587.3	571.1	568.9	545.1	524.5	498.5	475.7
10°	672.9	667.5	661.0	644.7	626.3	604.7	593.8	576.5	553.7	522.3	493.0
12.5°	713.0	704.3	693.5	669.7	648.0	624.2	626.3	598.2	583.0	554.8	511.5
15°	735.8	728.2	718.4	696.8	663.2	652.3	648.0	630.7	603.6	575.4	534.2
17.5°	741.2	735.8	722.8	694.6	676.2	663.2	662.1	641.5	629.6	605.7	560.2
20°	730.4	720.6	710.8	692.4	675.1	670.8	667.5	667.5	652.3	620.9	576.5
22.5°	711.9	701.1	695.7	684.8	670.8	669.7	671.8	669.7	657.8	637.2	593.8
25°	697.8	692.4	683.8	680.5	671.8	688.1	684.8	681.6	678.3	654.5	620.9
27.5°	702.2	701.1	694.6	681.6	675.1	692.4	702.2	703.3	702.2	678.3	645.8
30°	704.3	698.9	692.4	689.2	691.3	708.7	708.7	732.5	722.8	698.9	670.8
32.5°	729.3	726.0	704.3	696.8	697.8	718.4	719.5	743.4	740.1	723.9	692.4
35°	782.4	760.7	729.3	707.6	707.6	734.7	726.0	760.7	769.4	743.4	707.6
37.5°	861.5	845.2	788.9	740.1	721.7	741.2	749.9	769.4	795.4	772.6	737.9
40°	1018.6	1015.3	935.2	830.0	757.4	774.8	778.0	808.4	825.7	794.3	784.5
42.5°	1248.3	1232.1	1157.3	991.5	822.5	814.9	826.8	846.3	887.5	861.5	837.6
45°	1472.6	1465.0	1390.3	1205.0	940.6	895.1	888.6	923.2	983.9	955.7	937.3
47.5°	1635.2	1620.0	1577.7	1421.7	1114.0	989.3	993.7	1028.3	1105.3	1083.6	1089.0
50°	1759.8	1752.2	1707.8	1622.2	1332.8	1137.8	1129.1	1163.8	1267.8	1281.9	1297.1
52.5°	1896.3	1910.4	1850.8	1778.2	1591.8	1337.2	1317.7	1329.6	1464.0	1496.5	1538.7
55°	2027.4	2050.2	1990.6	1980.8	1862.7	1558.2	1555.0	1526.8	1700.2	1704.5	1727.3
57.5°	2113.0	2105.5	2101.1	2154.2	2133.6	1811.8	1795.5	1767.4	1924.5	1896.3	1964.6
60°	2119.5	2141.2	2213.8	2344.9	2381.8	2109.8	2086.0	2009.0	2118.5	2051.3	2181.3
62.5°	2168.3	2185.6	2320.0	2501.0	2548.7	2372.0	2388.3	2193.2	2284.3	2231.2	2421.9
65°	2044.8	2099.0	2368.8	2622.3	2767.5	2637.5	2621.3	2430.5	2454.4	2404.5	2659.2
67.5°	1933.2	1953.8	2235.5	2659.2	2940.9	2904.1	2897.6	2640.8	2629.9	2537.8	2726.4
70°	1571.2	1596.2	1874.6	2470.6	2999.4	3215.1	3199.9	2935.5	2749.1	2465.2	2381.8
72.5°	900.5	950.3	1299.3	1902.8	2694.9	3301.8	3315.9	2983.2	2608.3	2073.0	1590.7
75°	294.7	308.8	539.6	1078.2	2015.5	2880.2	2855.3	2563.8	2104.4	1368.6	718.4
77.5°	99.7	101.9	159.3	390.1	1117.2	1946.2	1960.3	1832.4	1292.7	568.9	198.3
80°	50.9	54.2	78.0	146.3	459.5	1059.8	1082.5	1044.6	541.8	168.0	47.7
82.5°	23.8	24.9	45.5	81.3	210.2	416.1	416.1	457.3	191.8	94.3	19.5
85°	8.7	8.7	23.8	46.6	88.9	138.7	139.8	140.9	100.8	70.4	8.7
87.5°	3.3	3.3	11.9	19.5	32.5	42.3	42.3	33.6	50.9	46.6	3.3
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°	454.0	454.0	454.0	454.0	454.0	454.0	454.0	454.0	454.0	454.0	454.0
2.5°	456.2	449.7	444.3	436.7	426.9	421.5	422.6	416.1	416.1	412.9	411.8
5°	456.2	449.7	435.6	422.6	413.9	403.1	397.7	393.4	393.4	391.2	392.3
7.5°	459.5	449.7	430.2	412.9	398.8	387.9	379.3	378.2	376.0	370.6	374.9
10°	479.0	464.9	432.4	408.5	392.3	380.3	365.2	360.8	354.3	344.6	345.7
12.5°	495.2	476.8	447.5	415.0	394.4	374.9	340.3	302.3	286.1	268.7	269.8
15°	519.1	493.0	452.9	423.7	394.4	331.6	268.7	220.0	194.0	181.0	181.0
17.5°	532.1	510.4	468.1	429.1	363.0	269.8	190.7	148.5	144.1	146.3	146.3
20°	559.1	529.9	485.5	433.4	311.0	191.8	139.8	135.5	137.6	142.0	140.9
22.5°	576.5	547.2	498.5	413.9	240.6	137.6	131.1	128.9	131.1	136.5	136.5
25°	590.6	572.1	519.1	366.3	170.1	124.6	122.4	124.6	126.8	128.9	132.2
27.5°	625.2	593.8	533.1	304.5	122.4	115.9	118.1	119.2	119.2	122.4	123.5
30°	648.0	623.1	544.0	235.1	108.4	107.3	109.4	110.5	111.6	114.9	115.9
32.5°	669.7	661.0	529.9	159.3	101.9	99.7	98.6	99.7	104.0	107.3	106.2
35°	701.1	695.7	509.3	110.5	95.4	91.0	88.9	89.9	93.2	96.4	95.4
37.5°	739.0	744.4	459.5	96.4	88.9	83.4	79.1	79.1	80.2	83.4	84.5
40°	783.5	797.5	400.9	89.9	84.5	78.0	73.7	68.3	67.2	66.1	67.2
42.5°	864.7	881.0	334.8	85.6	78.0	70.4	63.9	57.4	52.0	48.8	48.8
45°	978.5	965.5	248.1	81.3	74.8	63.9	54.2	46.6	39.0	35.8	35.8
47.5°	1135.6	1091.2	170.1	76.9	69.4	56.3	45.5	35.8	29.3	26.0	26.0
50°	1353.4	1207.1	110.5	72.6	66.1	48.8	36.8	26.0	21.7	20.6	21.7
52.5°	1559.3	1325.3	87.8	67.2	59.6	42.3	28.2	21.7	19.5	18.4	18.4
55°	1749.0	1384.9	78.0	61.8	54.2	34.7	23.8	18.4	17.3	16.3	16.3
57.5°	1909.3	1405.4	67.2	54.2	43.3	27.1	19.5	16.3	14.1	13.0	13.0
60°	2048.0	1410.9	52.0	43.3	31.4	20.6	16.3	14.1	11.9	9.8	9.8
62.5°	2158.6	1372.9	36.8	30.3	21.7	16.3	14.1	9.8	6.5	4.3	3.3
65°	2246.3	1297.1	24.9	20.6	14.1	11.9	8.7	4.3	1.1	0.0	0.0
67.5°	2143.4	1124.8	19.5	15.2	9.8	7.6	4.3	1.1	0.0	0.0	0.0
70°	1747.9	872.3	14.1	9.8	6.5	2.2	1.1	0.0	0.0	0.0	0.0
72.5°	1189.8	562.4	10.8	6.5	3.3	1.1	0.0	0.0	0.0	0.0	0.0
75°	534.2	201.6	7.6	4.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	130.0	47.7	5.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	34.7	11.9	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.0	4.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	1.1	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)