

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: P674459

Luminaire Tested: **CCP-SA-1B-830-U-AFL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674459
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1B-830-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ AFL distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

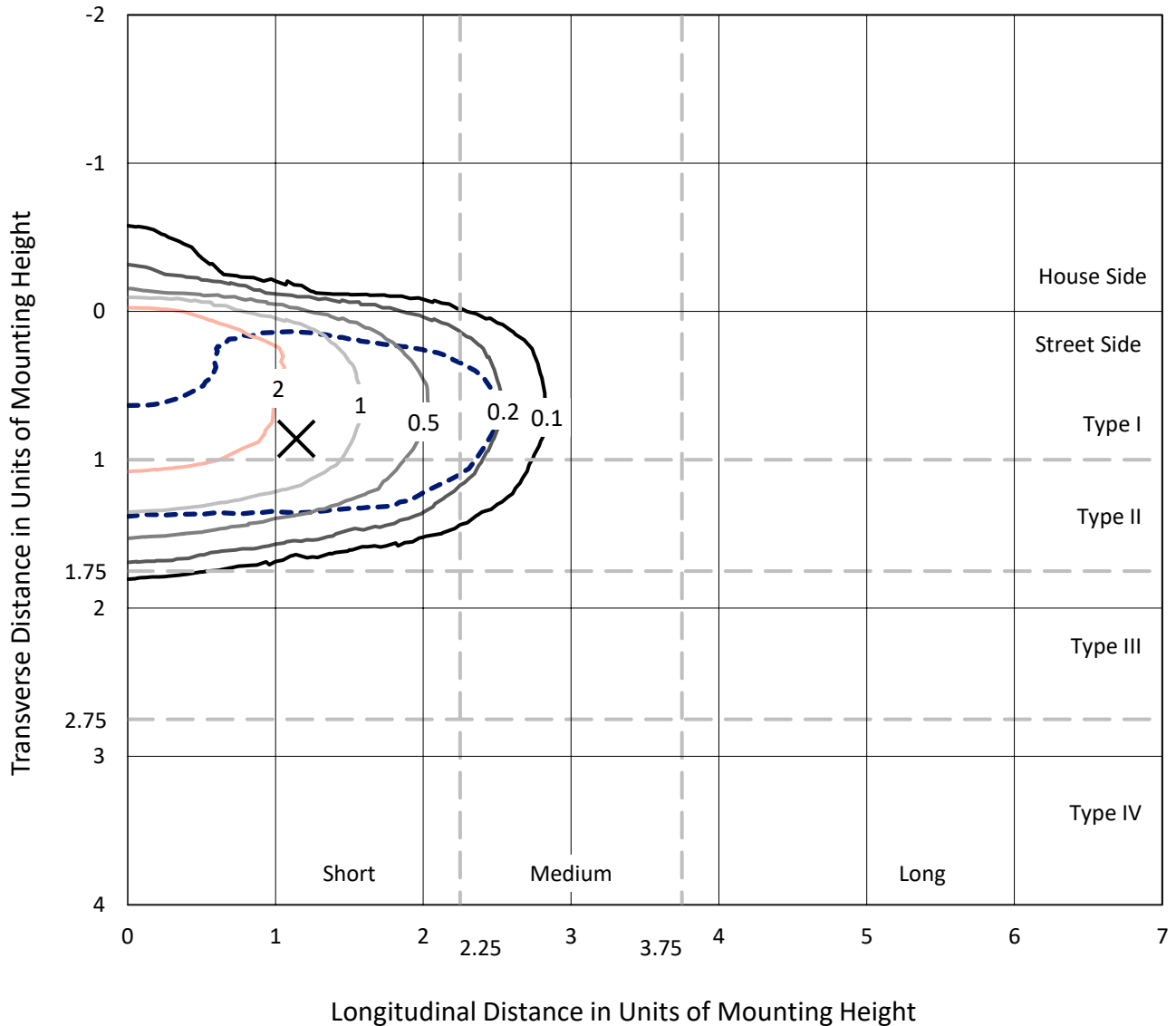
Lumens per Lamp: N/A
Luminaire Lumens: 2275.7 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

Input Watts (W): 24
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

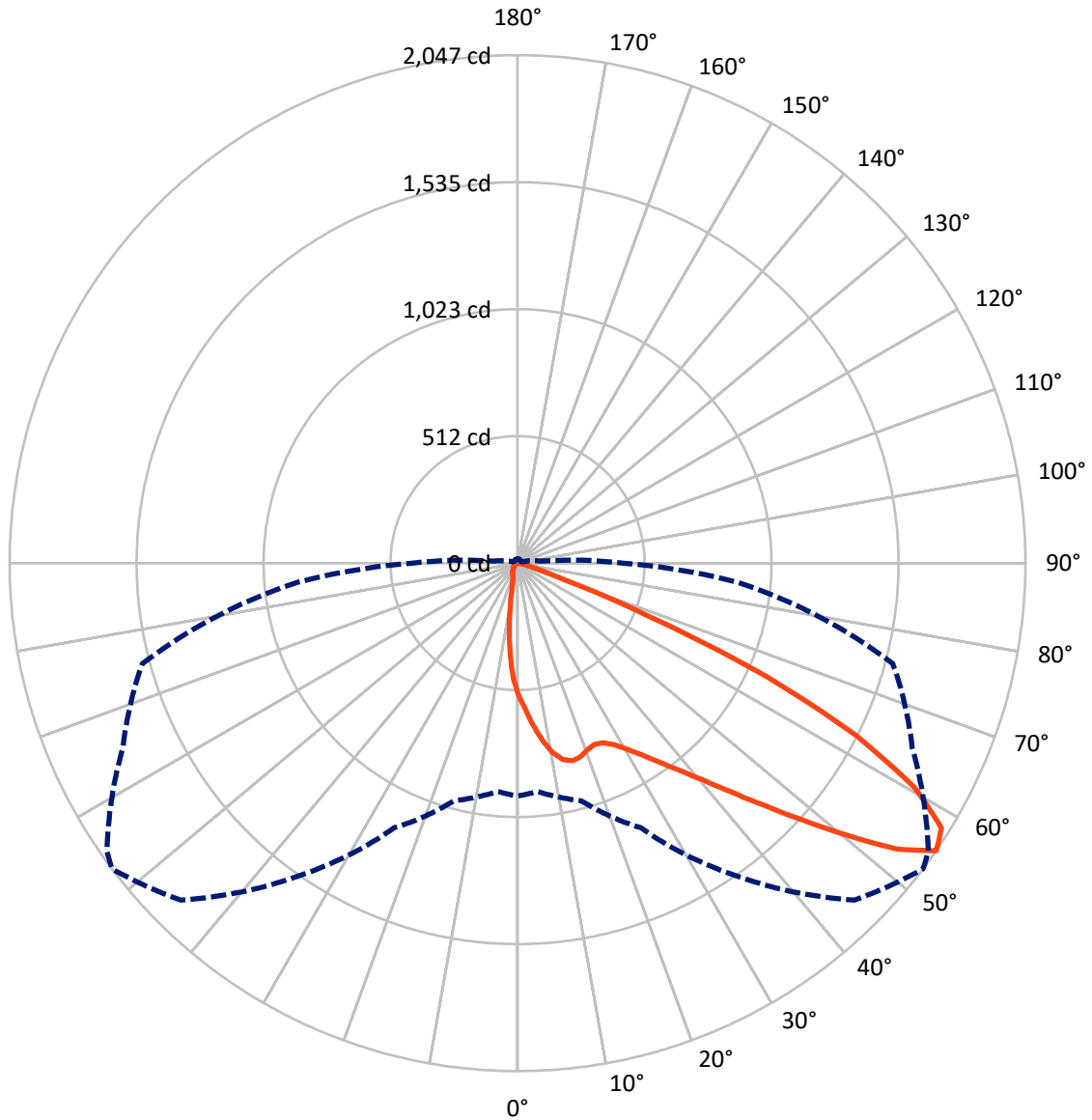
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	123.0	0.0	123.0
	% Fixture	5.4	0.0	5.4
Street Side	Lumens	2152.7	0.0	2152.7
	% Fixture	94.6	0.0	94.6
Total	Lumens	2275.7	0.0	2275.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.6	2.1
10°-20°	124.4	5.5
20°-30°	208.2	9.2
30°-40°	340.7	15.0
40°-50°	547.6	24.1
50°-60°	618.3	27.2
60°-70°	329.8	14.5
70°-80°	54.2	2.4
80°-90°	4.9	0.2
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°	2275.7	100.0
0°-180°	2275.7	100.0



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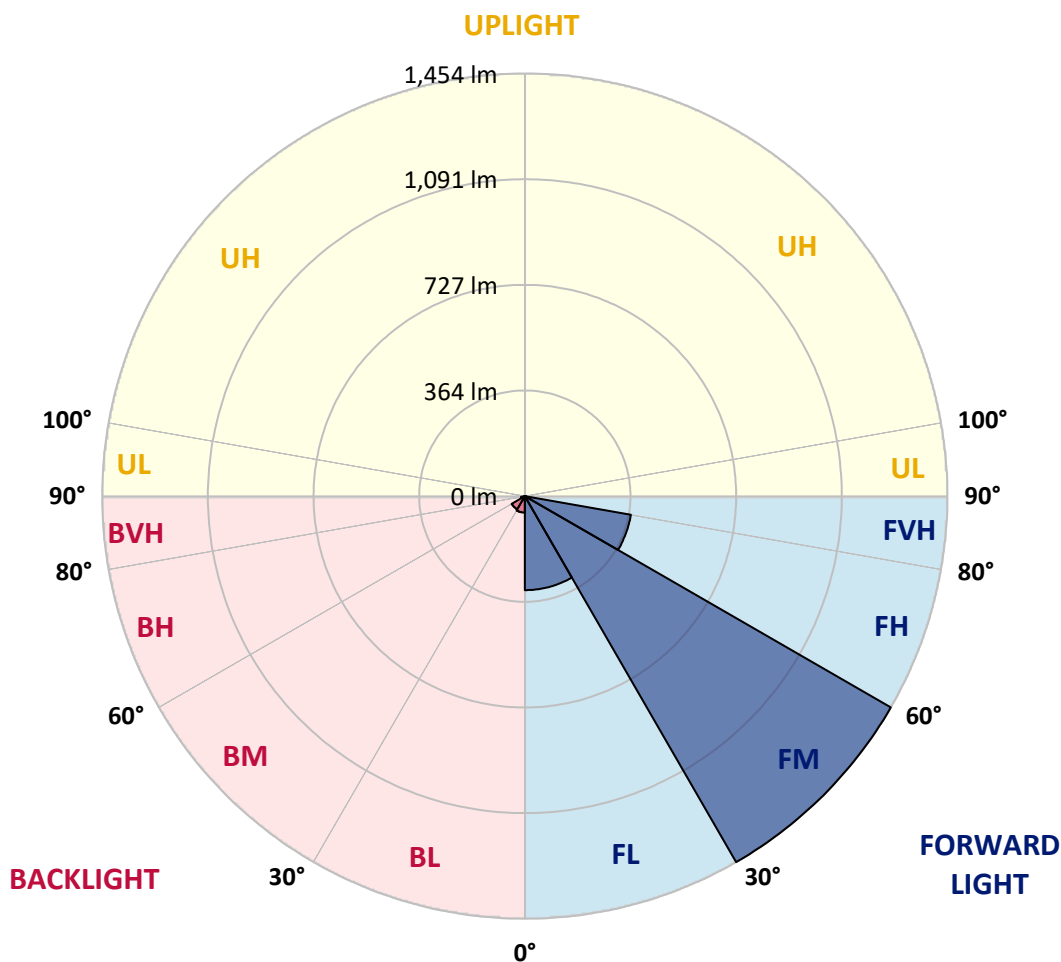
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	323.5	14.2			
FM (30°-60°)	1454.2	63.9			
FH (60°-80°)	370.5	16.3			G0/660
FVH (80°-90°)	4.5	0.2			G0/10
BL (0°-30°)	56.8	2.5	B0/110		
BM (30°-60°)	52.4	2.3	B0/220		
BH (60°-80°)	13.5	0.6	B0/110		G0/110
BVH (80°-90°)	0.4	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-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	532.6	532.6	532.6	532.6	532.6	532.6	532.6	532.6	532.6	532.6	532.6
2.5°	638.6	634.8	637.0	631.3	620.7	607.5	587.8	588.8	573.2	559.7	540.9
5°	744.1	740.1	738.9	724.2	709.4	685.7	656.4	651.6	623.1	588.6	549.3
7.5°	799.7	796.3	798.9	793.6	779.0	757.5	720.4	716.8	672.7	620.5	562.7
10°	774.2	773.0	784.0	796.7	808.5	805.9	776.2	770.6	721.2	655.6	576.4
12.5°	705.6	709.4	723.4	746.9	783.2	817.3	812.5	813.5	770.6	693.7	591.6
15°	665.4	669.9	677.9	690.1	734.7	795.4	826.3	836.2	818.1	736.1	609.5
17.5°	662.0	665.8	666.9	671.5	697.7	760.1	820.7	839.6	860.4	776.2	629.7
20°	688.1	689.7	688.7	685.3	694.7	740.9	803.1	830.2	895.2	818.9	647.4
22.5°	737.3	734.9	731.9	719.4	718.8	746.3	793.6	821.9	916.0	854.2	659.2
25°	798.3	793.4	789.2	771.4	763.1	774.4	802.1	824.9	934.7	888.5	667.5
27.5°	864.9	866.5	856.2	832.2	819.1	816.7	828.7	845.6	952.9	919.2	672.1
30°	936.1	936.9	923.4	898.6	886.7	871.3	870.5	880.7	972.4	954.5	676.5
32.5°	1017.3	1019.5	997.3	971.6	950.7	930.7	921.0	929.5	1007.5	1000.5	685.5
35°	1134.5	1124.9	1095.0	1056.2	1026.4	1000.3	985.4	991.0	1054.2	1055.8	703.4
37.5°	1255.3	1254.3	1221.2	1165.2	1116.6	1084.1	1058.5	1067.7	1119.8	1129.7	732.1
40°	1368.0	1370.6	1341.9	1293.0	1230.4	1174.6	1147.3	1153.5	1206.9	1219.4	767.0
42.5°	1441.6	1440.2	1442.4	1428.4	1365.6	1299.8	1258.7	1262.1	1308.2	1314.8	810.7
45°	1475.5	1470.1	1488.8	1533.1	1508.2	1439.0	1392.1	1387.9	1413.3	1411.5	850.4
47.5°	1446.2	1436.2	1479.2	1585.9	1634.2	1613.2	1546.2	1538.7	1517.1	1502.8	891.7
50°	1300.4	1296.0	1388.1	1560.8	1713.3	1774.3	1725.1	1697.0	1609.8	1570.2	913.4
52.5°	1161.8	1149.7	1211.9	1432.6	1678.0	1903.9	1914.1	1864.1	1686.8	1589.5	906.0
55°	938.5	923.6	991.3	1177.0	1538.3	1920.5	2046.9	2020.8	1754.2	1565.6	891.1
57.5°	570.0	555.3	655.0	843.0	1230.2	1782.9	2014.2	2040.7	1806.0	1539.3	881.3
60°	239.7	230.3	269.4	402.4	785.6	1465.3	1840.7	1906.9	1815.8	1503.2	885.3
62.5°	124.6	120.4	122.6	161.1	317.6	964.8	1532.1	1647.3	1717.3	1487.2	889.3
65°	93.5	90.3	83.3	88.5	123.4	417.1	1101.0	1255.3	1503.8	1446.7	862.3
67.5°	76.8	73.8	68.8	67.2	72.8	144.8	562.1	762.7	1178.4	1274.3	765.8
70°	61.2	60.2	58.6	55.6	54.6	70.2	201.6	310.8	779.2	898.6	555.1
72.5°	51.0	51.2	49.4	46.9	43.3	45.3	80.4	106.3	377.0	430.9	232.5
75°	42.7	42.7	43.3	39.7	36.1	31.1	44.7	51.8	121.0	99.5	49.6
77.5°	33.5	33.9	36.5	33.5	28.9	19.5	24.3	27.7	35.9	28.7	18.1
80°	26.7	26.3	25.3	30.1	25.9	13.8	11.6	12.8	16.7	13.8	9.0
82.5°	18.7	18.5	17.7	20.3	20.1	10.2	7.6	7.8	10.2	8.8	5.6
85°	4.6	5.4	11.4	9.6	8.4	6.0	4.6	5.0	6.6	5.8	3.0
87.5°	2.0	2.0	5.2	6.2	4.0	2.6	2.0	2.2	3.4	3.4	1.8
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°	532.6	532.6	532.6	532.6	532.6	532.6	532.6	532.6	532.6	532.6	532.6
2.5°	534.4	521.4	505.0	487.7	470.0	448.6	435.1	423.9	415.1	408.3	406.0
5°	536.3	511.4	474.3	428.3	381.4	337.6	303.7	278.5	257.8	246.4	241.5
7.5°	536.2	503.1	436.1	358.9	282.7	219.5	174.7	146.9	128.4	120.8	116.2
10°	536.0	492.1	392.4	281.9	189.0	127.2	93.7	78.2	71.4	68.8	68.4
12.5°	541.7	479.5	343.5	207.6	118.6	79.2	65.2	61.6	60.0	59.2	59.0
15°	544.9	468.0	292.1	146.5	80.0	62.6	58.2	56.6	56.0	55.6	55.4
17.5°	548.3	450.0	243.3	106.1	64.0	56.8	54.2	53.2	52.8	52.8	52.8
20°	548.9	430.7	194.8	78.2	56.8	53.0	50.4	49.4	48.8	48.5	48.5
22.5°	544.5	407.7	153.1	63.4	52.6	49.4	46.7	45.1	44.1	43.9	43.9
25°	533.6	375.2	117.4	55.6	49.2	45.9	42.5	40.7	39.9	39.9	39.9
27.5°	517.8	337.0	90.7	49.4	44.9	41.5	38.5	36.9	36.7	36.5	36.7
30°	499.9	300.1	69.4	43.9	39.7	36.9	34.5	33.7	34.1	34.1	34.3
32.5°	481.9	263.2	54.2	39.5	35.1	32.7	31.5	31.5	32.1	32.1	32.1
35°	466.6	227.1	45.5	35.9	31.9	29.9	29.3	29.9	30.3	30.5	30.5
37.5°	458.0	196.0	40.1	32.7	29.3	27.7	27.5	28.1	28.9	29.5	29.7
40°	454.8	172.1	36.9	30.3	26.9	25.9	25.7	26.5	27.9	28.9	29.1
42.5°	455.0	150.9	34.1	27.9	25.3	23.9	23.9	25.1	26.5	27.5	27.5
45°	456.4	132.8	31.3	25.5	23.9	21.5	21.7	23.3	24.3	25.3	25.3
47.5°	457.6	118.2	28.3	22.9	20.7	19.5	19.9	21.1	22.5	24.1	24.1
50°	450.6	107.9	25.3	20.1	18.1	17.7	18.5	19.5	21.5	23.1	23.3
52.5°	433.9	98.5	22.7	17.9	16.3	16.5	17.5	18.1	19.7	19.9	20.1
55°	426.5	93.7	20.7	16.3	15.0	15.6	16.2	16.3	16.0	15.0	15.0
57.5°	424.9	90.5	18.7	14.8	13.8	14.6	14.4	13.2	12.0	10.8	10.6
60°	426.5	86.1	17.1	12.8	12.6	12.8	12.2	10.0	8.4	7.6	7.2
62.5°	417.3	79.8	15.8	11.0	11.0	10.8	9.2	6.8	5.4	4.8	4.6
65°	387.0	67.2	14.4	9.2	9.0	8.6	6.2	4.6	3.6	3.0	2.8
67.5°	327.4	52.0	13.0	7.6	7.2	6.0	4.0	3.0	2.0	1.8	1.6
70°	223.3	32.3	11.0	6.0	5.4	3.8	2.4	1.8	1.2	1.0	0.8
72.5°	81.0	18.7	9.2	4.6	3.6	2.4	1.4	0.8	0.6	0.6	0.4
75°	19.1	13.2	7.0	3.4	2.4	1.4	0.8	0.6	0.4	0.4	0.2
77.5°	8.8	10.2	4.6	2.0	1.6	1.0	0.6	0.4	0.2	0.2	0.0
80°	5.0	7.2	2.2	1.4	1.2	0.8	0.4	0.2	0.2	0.0	0.0
82.5°	2.6	4.0	1.6	1.2	1.0	0.6	0.4	0.0	0.0	0.0	0.0
85°	1.8	2.0	1.2	1.0	0.8	0.6	0.4	0.0	0.0	0.0	0.0
87.5°	1.4	1.4	1.2	1.0	0.8	0.6	0.2	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)