

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: P674461

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

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674461
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1D-830-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ AFL distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

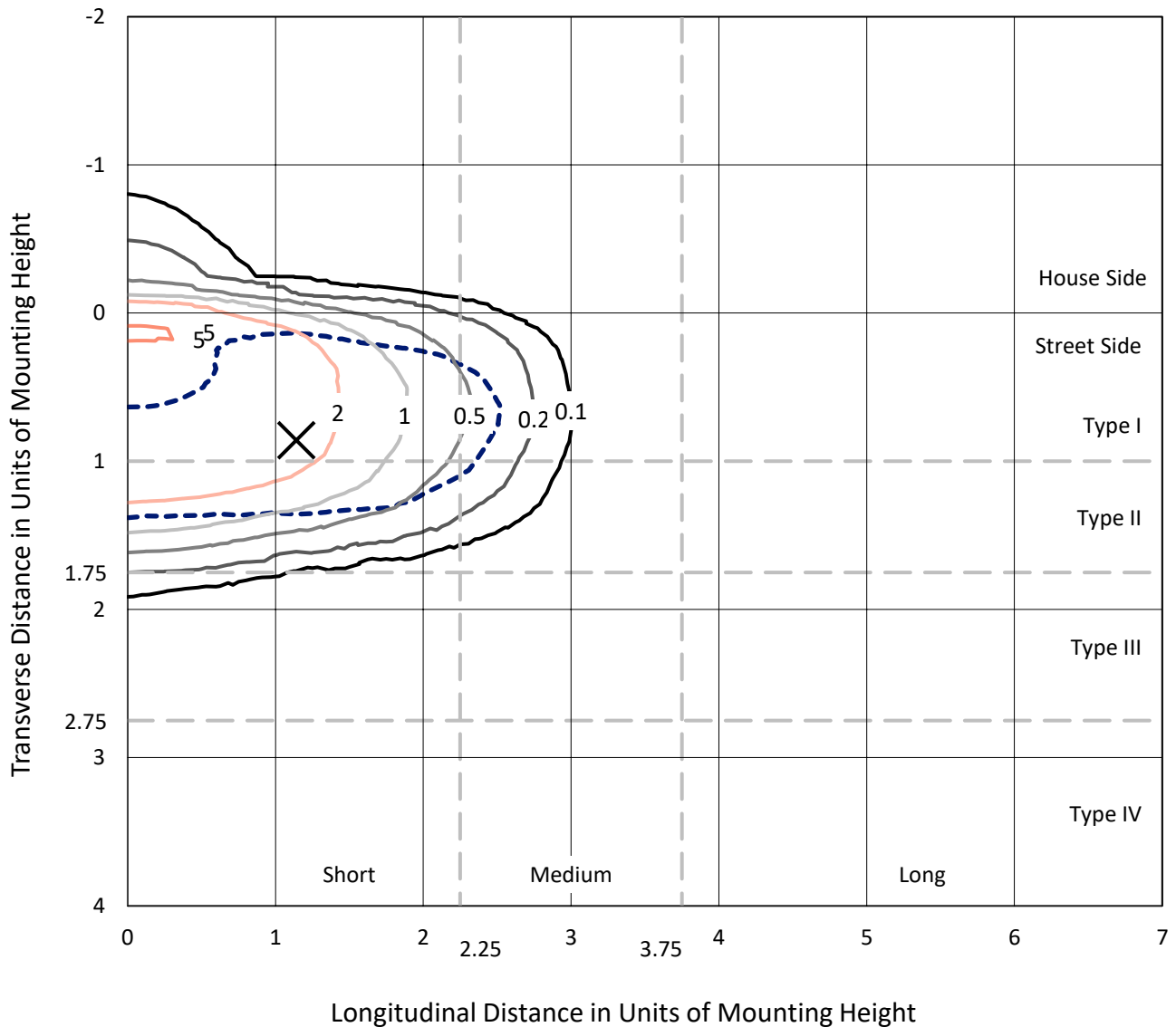
Lumens per Lamp: N/A
Luminaire Lumens: 3674.8 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

Input Watts (W): 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

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Iso-Footcandle Lines of Horizontal Illumination

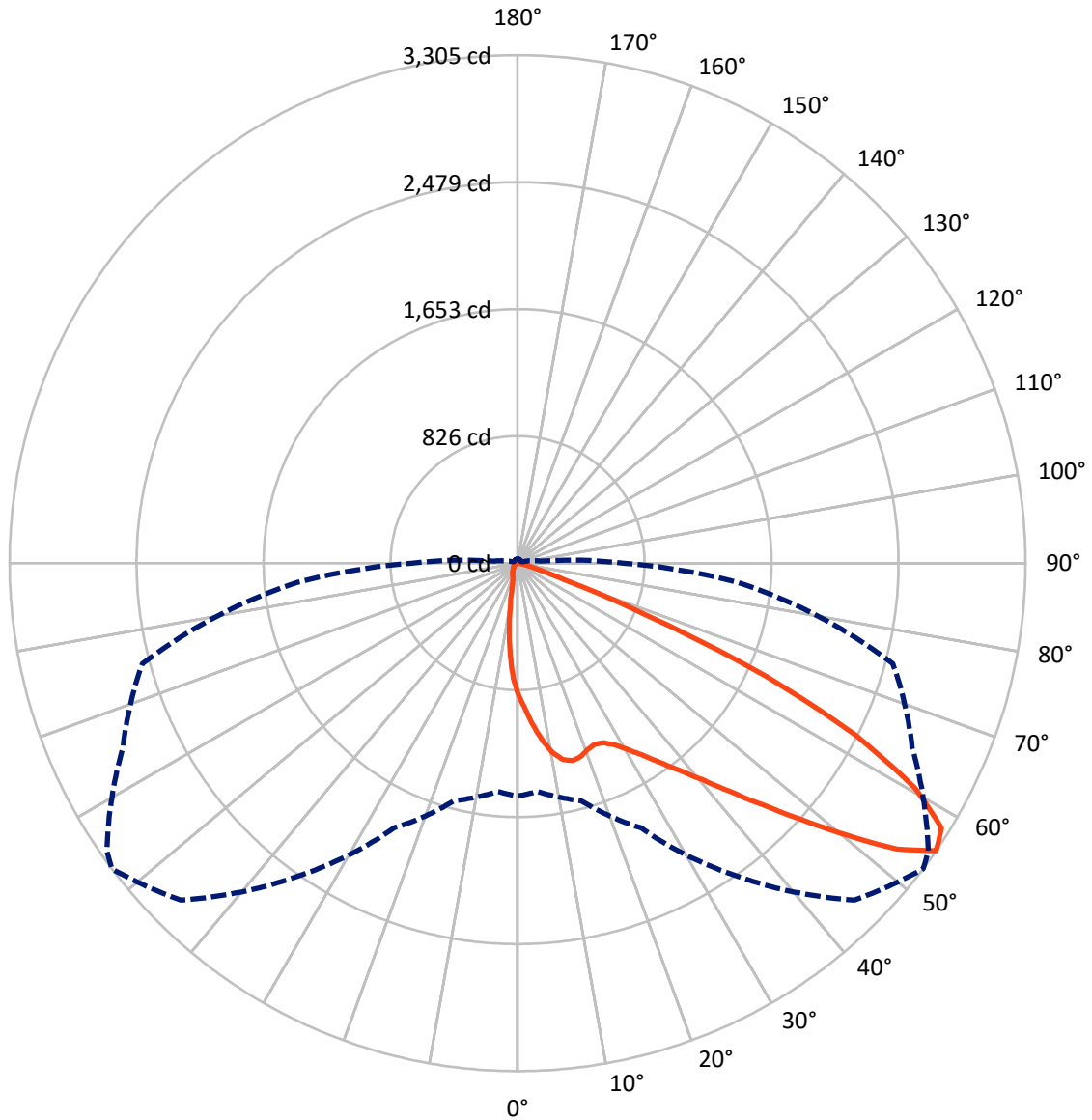
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.5 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	198.6	0.0	198.6
	% Fixture	5.4	0.0	5.4
Street Side	Lumens	3476.1	0.0	3476.1
	% Fixture	94.6	0.0	94.6
Total	Lumens	3674.8	0.0	3674.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	2.1
10°-20°	200.9	5.5
20°-30°	336.3	9.2
30°-40°	550.1	15.0
40°-50°	884.3	24.1
50°-60°	998.4	27.2
60°-70°	532.6	14.5
70°-80°	87.5	2.4
80°-90°	7.8	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°	3674.8	100.0
0°-180°	3674.8	100.0

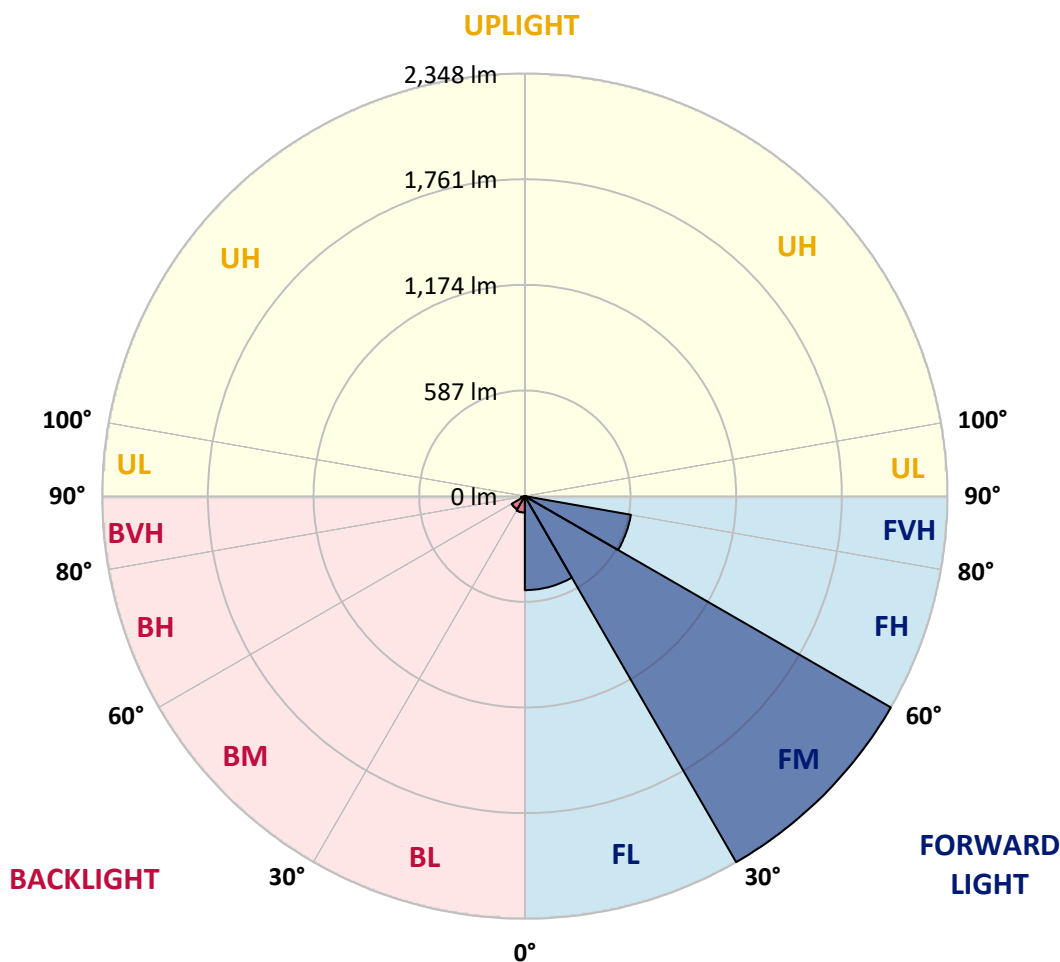


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	522.4	14.2			
FM (30°-60°)	2348.2	63.9			
FH (60°-80°)	598.3	16.3			G0/660
FVH (80°-90°)	7.2	0.2			G0/10
BL (0°-30°)	91.7	2.5	B0/110		
BM (30°-60°)	84.6	2.3	B0/220		
BH (60°-80°)	21.7	0.6	B0/110		G0/110
BVH (80°-90°)	0.6	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°	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0
2.5°	1031.3	1025.2	1028.7	1019.4	1002.3	981.0	949.2	950.8	925.7	903.8	873.5
5°	1201.6	1195.2	1193.2	1169.4	1145.6	1107.3	1059.9	1052.2	1006.2	950.5	887.0
7.5°	1291.4	1285.9	1290.1	1281.4	1257.9	1223.2	1163.3	1157.5	1086.3	1002.0	908.6
10°	1250.2	1248.3	1266.0	1286.6	1305.6	1301.4	1253.4	1244.4	1164.6	1058.6	930.8
12.5°	1139.5	1145.6	1168.1	1206.1	1264.7	1319.8	1312.0	1313.6	1244.4	1120.1	955.3
15°	1074.4	1081.8	1094.7	1114.3	1186.5	1284.3	1334.2	1350.3	1321.0	1188.7	984.3
17.5°	1068.9	1075.1	1077.0	1084.4	1126.6	1227.4	1325.2	1355.8	1389.3	1253.4	1016.8
20°	1111.1	1113.7	1112.1	1106.6	1121.7	1196.4	1296.9	1340.7	1445.6	1322.3	1045.4
22.5°	1190.6	1186.8	1182.0	1161.7	1160.7	1205.1	1281.4	1327.2	1479.1	1379.3	1064.4
25°	1289.2	1281.1	1274.4	1245.7	1232.2	1250.5	1295.3	1332.0	1509.4	1434.7	1078.0
27.5°	1396.7	1399.3	1382.5	1343.9	1322.7	1318.8	1338.1	1365.5	1538.7	1484.3	1085.4
30°	1511.6	1512.9	1491.0	1451.1	1431.8	1407.0	1405.7	1422.1	1570.2	1541.3	1092.4
32.5°	1642.7	1646.2	1610.5	1569.0	1535.2	1503.0	1487.2	1501.0	1626.9	1615.6	1106.9
35°	1832.0	1816.6	1768.3	1705.5	1657.5	1615.3	1591.2	1600.2	1702.3	1704.8	1135.9
37.5°	2027.1	2025.5	1972.1	1881.6	1803.0	1750.6	1709.3	1724.2	1808.2	1824.3	1182.3
40°	2209.0	2213.2	2166.9	2088.0	1986.9	1896.7	1852.6	1862.6	1948.9	1969.2	1238.6
42.5°	2327.8	2325.6	2329.1	2306.6	2205.2	2098.9	2032.6	2038.1	2112.4	2123.1	1309.1
45°	2382.6	2373.9	2404.2	2475.6	2435.4	2323.7	2248.0	2241.2	2282.1	2279.2	1373.2
47.5°	2335.2	2319.2	2388.7	2561.0	2638.9	2605.1	2496.9	2484.6	2449.9	2426.7	1439.9
50°	2099.9	2092.8	2241.6	2520.4	2766.7	2865.2	2785.7	2740.3	2599.6	2535.5	1474.9
52.5°	1876.1	1856.5	1956.9	2313.4	2709.7	3074.5	3090.9	3010.1	2723.9	2566.7	1463.0
55°	1515.5	1491.4	1600.8	1900.6	2484.0	3101.2	3305.3	3263.2	2832.7	2528.1	1438.9
57.5°	920.5	896.7	1057.7	1361.3	1986.6	2879.1	3252.5	3295.4	2916.4	2485.6	1423.1
60°	387.0	371.9	435.0	649.7	1268.6	2366.2	2972.4	3079.3	2932.2	2427.3	1429.5
62.5°	201.2	194.5	198.0	260.2	512.9	1558.0	2474.0	2660.1	2773.1	2401.6	1436.0
65°	151.0	145.9	134.6	143.0	199.3	673.6	1777.9	2027.1	2428.3	2336.2	1392.5
67.5°	124.0	119.1	111.1	108.5	117.5	233.8	907.6	1231.5	1902.8	2057.7	1236.7
70°	98.8	97.2	94.7	89.8	88.2	113.3	325.5	502.0	1258.3	1451.1	896.4
72.5°	82.4	82.7	79.8	75.7	69.9	73.1	129.8	171.6	608.8	695.8	375.4
75°	68.9	68.9	69.9	64.1	58.3	50.2	72.1	83.7	195.4	160.7	80.2
77.5°	54.1	54.7	58.9	54.1	46.7	31.6	39.3	44.8	58.0	46.4	29.3
80°	43.1	42.5	40.9	48.6	41.9	22.2	18.7	20.6	27.0	22.2	14.5
82.5°	30.3	29.9	28.7	32.8	32.5	16.4	12.2	12.6	16.4	14.2	9.0
85°	7.4	8.7	18.4	15.5	13.5	9.7	7.4	8.0	10.6	9.3	4.8
87.5°	3.2	3.2	8.4	10.0	6.4	4.2	3.2	3.5	5.5	5.5	2.9
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°	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0
2.5°	862.9	842.0	815.6	787.5	758.9	724.4	702.5	684.5	670.3	659.4	655.5
5°	866.1	825.9	766.0	691.6	615.9	545.1	490.4	449.8	416.3	398.0	389.9
7.5°	865.8	812.3	704.1	579.5	456.6	354.5	282.0	237.3	207.3	195.1	187.7
10°	865.5	794.6	633.6	455.3	305.2	205.4	151.3	126.2	115.3	111.1	110.4
12.5°	874.8	774.3	554.8	335.2	191.6	127.8	105.3	99.5	96.9	95.6	95.3
15°	879.9	755.7	471.7	236.6	129.1	101.1	94.0	91.4	90.5	89.8	89.5
17.5°	885.4	726.7	392.8	171.3	103.4	91.8	87.6	86.0	85.3	85.3	85.3
20°	886.4	695.5	314.6	126.2	91.8	85.6	81.5	79.8	78.9	78.2	78.2
22.5°	879.3	658.4	247.3	102.4	85.0	79.8	75.3	72.8	71.2	70.8	70.8
25°	861.6	605.9	189.6	89.8	79.5	74.1	68.6	65.7	64.4	64.4	64.4
27.5°	836.2	544.1	146.5	79.8	72.4	67.0	62.1	59.6	59.2	58.9	59.2
30°	807.2	484.6	112.0	70.8	64.1	59.6	55.7	54.4	55.1	55.1	55.4
32.5°	778.2	425.0	87.6	63.8	56.7	52.8	50.9	50.9	51.8	51.8	51.8
35°	753.4	366.7	73.4	58.0	51.5	48.3	47.3	48.3	48.9	49.3	49.3
37.5°	739.6	316.5	64.7	52.8	47.3	44.8	44.4	45.4	46.7	47.7	48.0
40°	734.4	277.9	59.6	48.9	43.5	41.9	41.5	42.8	45.1	46.7	47.0
42.5°	734.7	243.7	55.1	45.1	40.9	38.6	38.6	40.6	42.8	44.4	44.4
45°	737.0	214.4	50.5	41.2	38.6	34.8	35.1	37.7	39.3	40.9	40.9
47.5°	738.9	190.9	45.7	37.0	33.5	31.6	32.2	34.1	36.4	39.0	39.0
50°	727.7	174.2	40.9	32.5	29.3	28.7	29.9	31.6	34.8	37.3	37.7
52.5°	700.6	159.1	36.7	29.0	26.4	26.7	28.3	29.3	31.9	32.2	32.5
55°	688.7	151.3	33.5	26.4	24.1	25.1	26.1	26.4	25.8	24.1	24.1
57.5°	686.1	146.2	30.3	23.8	22.2	23.5	23.2	21.3	19.3	17.4	17.1
60°	688.7	139.1	27.7	20.6	20.3	20.6	19.6	16.1	13.5	12.2	11.6
62.5°	673.9	128.8	25.4	17.7	17.7	17.4	14.8	10.9	8.7	7.7	7.4
65°	624.9	108.5	23.2	14.8	14.5	13.8	10.0	7.4	5.8	4.8	4.5
67.5°	528.7	84.0	20.9	12.2	11.6	9.7	6.4	4.8	3.2	2.9	2.6
70°	360.6	52.2	17.7	9.7	8.7	6.1	3.9	2.9	1.9	1.6	1.3
72.5°	130.7	30.3	14.8	7.4	5.8	3.9	2.3	1.3	1.0	1.0	0.6
75°	30.9	21.3	11.3	5.5	3.9	2.3	1.3	1.0	0.6	0.6	0.3
77.5°	14.2	16.4	7.4	3.2	2.6	1.6	1.0	0.6	0.3	0.3	0.0
80°	8.0	11.6	3.5	2.3	1.9	1.3	0.6	0.3	0.3	0.0	0.0
82.5°	4.2	6.4	2.6	1.9	1.6	1.0	0.6	0.0	0.0	0.0	0.0
85°	2.9	3.2	1.9	1.6	1.3	1.0	0.6	0.0	0.0	0.0	0.0
87.5°	2.3	2.3	1.9	1.6	1.3	1.0	0.3	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)