

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: P674449

Luminaire Tested: **CCP-SA-1C-827-U-AFL-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674449  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1C-827-U-AFL-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @615mA w/ AFL distribution lens and House Side Shield  
Light Source: (16) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

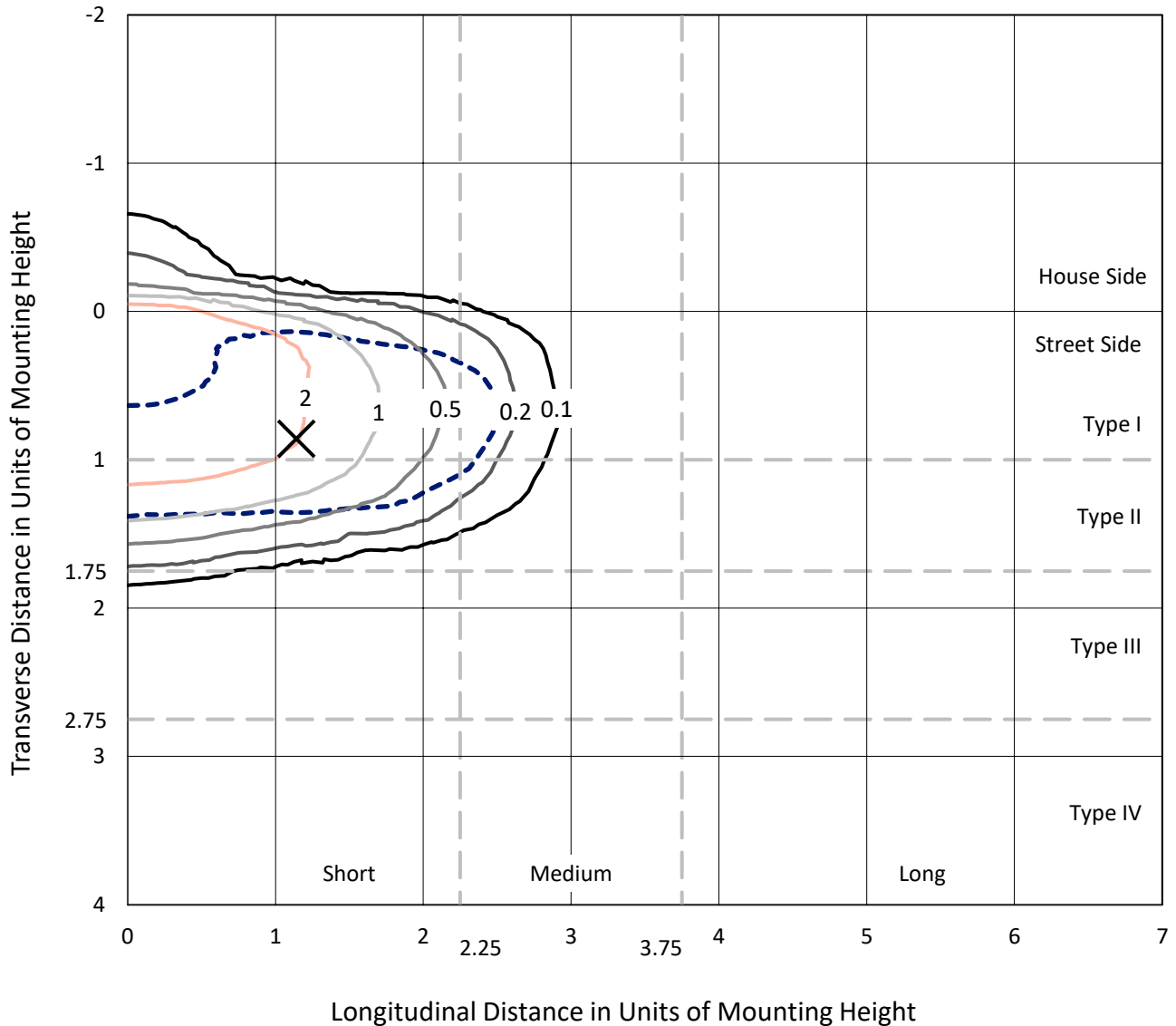
Lumens per Lamp: N/A  
Luminaire Lumens: 2756.1 lumens  
Efficiency: N/A  
Efficacy: 86.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G0

Input Watts (W): 32  
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

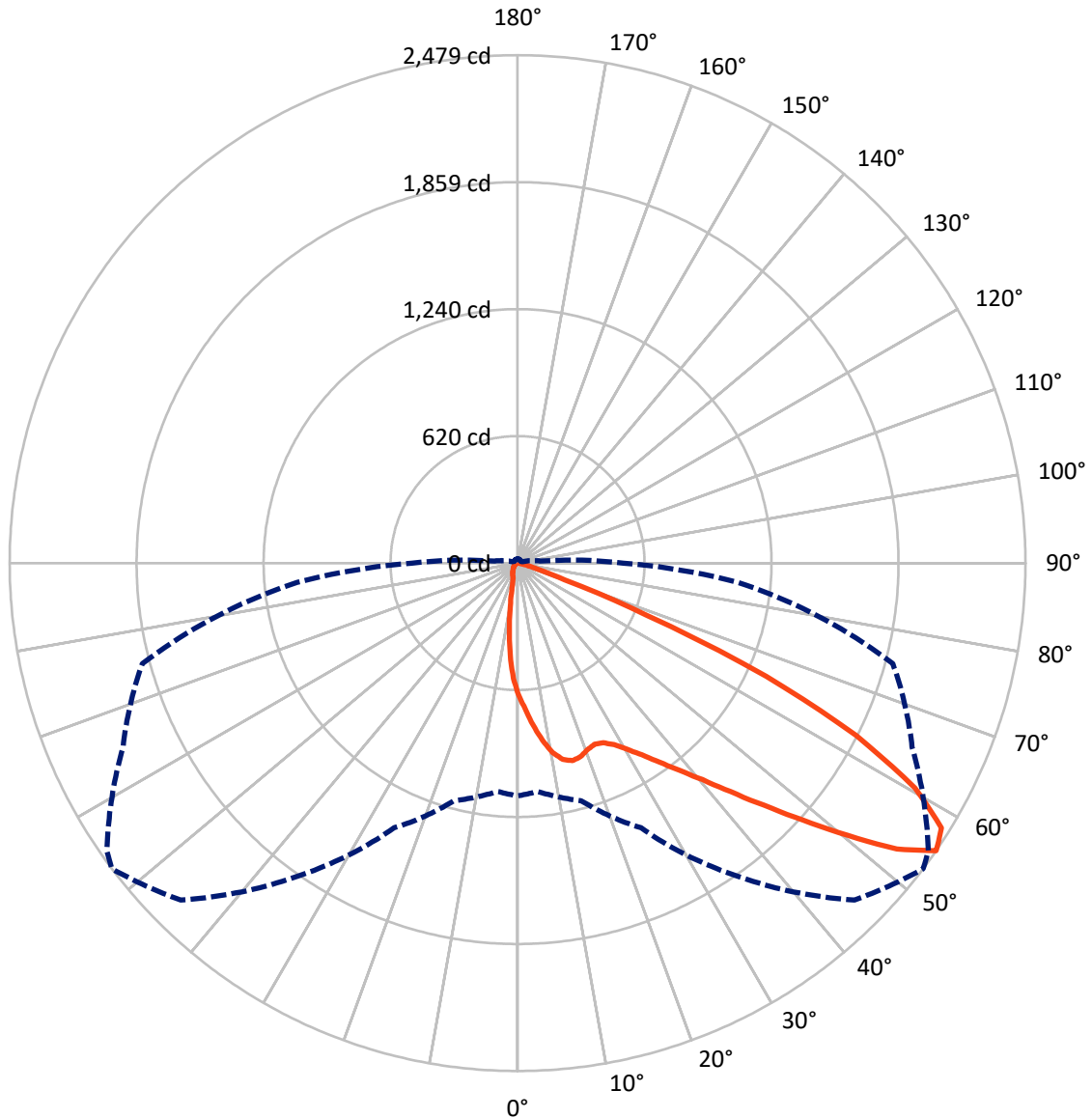
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.2 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
<b>House Side</b>	Lumens	149.0	0.0	149.0
	% Fixture	5.4	0.0	5.4
<b>Street Side</b>	Lumens	2607.1	0.0	2607.1
	% Fixture	94.6	0.0	94.6
<b>Total</b>	Lumens	2756.1	0.0	2756.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.7	2.1
10°-20°	150.7	5.5
20°-30°	252.2	9.2
30°-40°	412.6	15.0
40°-50°	663.2	24.1
50°-60°	748.8	27.2
60°-70°	399.4	14.5
70°-80°	65.6	2.4
80°-90°	5.9	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°	2756.1	100.0
0°-180°	2756.1	100.0



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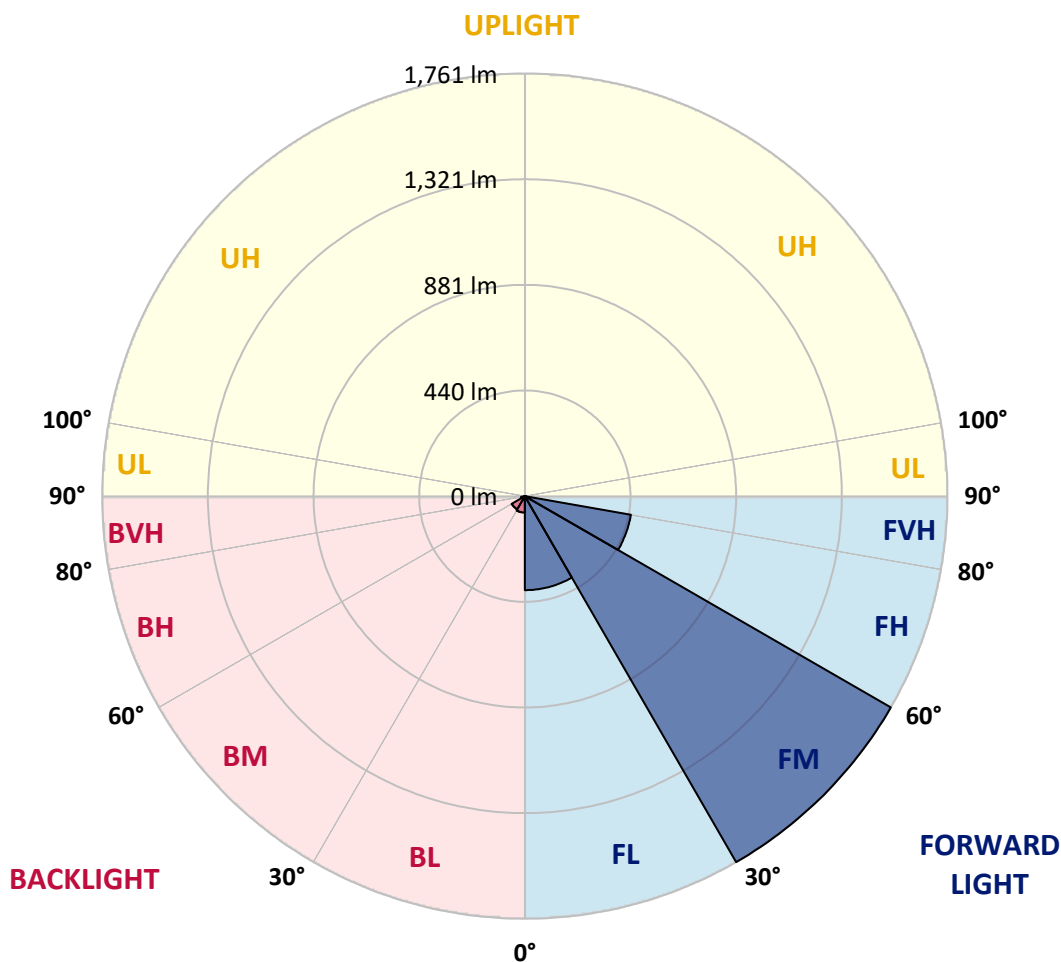
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	391.8	14.2			
FM (30°-60°)	1761.2	63.9			
FH (60°-80°)	448.8	16.3			G0/660
FVH (80°-90°)	5.4	0.2			G0/10
BL (0°-30°)	68.8	2.5	B0/110		
BM (30°-60°)	63.5	2.3	B0/220		
BH (60°-80°)	16.3	0.6	B0/110		G0/110
BVH (80°-90°)	0.5	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°	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0
2.5°	773.5	768.9	771.5	764.5	751.7	735.8	711.9	713.1	694.3	677.8	655.1
5°	901.2	896.4	894.9	877.1	859.2	830.4	795.0	789.2	754.6	712.8	665.3
7.5°	968.6	964.5	967.6	961.1	943.5	917.4	872.5	868.1	814.8	751.5	681.5
10°	937.7	936.2	949.5	965.0	979.2	976.1	940.1	933.3	873.4	794.0	698.1
12.5°	854.6	859.2	876.1	904.6	948.5	989.8	984.0	985.2	933.3	840.1	716.5
15°	805.8	811.4	821.0	835.8	889.9	963.3	1000.7	1012.8	990.8	891.5	738.2
17.5°	801.7	806.3	807.8	813.3	844.9	920.5	993.9	1016.9	1042.0	940.1	762.6
20°	833.3	835.3	834.1	830.0	841.3	897.3	972.7	1005.5	1084.2	991.8	784.1
22.5°	893.0	890.1	886.5	871.3	870.5	903.9	961.1	995.4	1109.4	1034.5	798.3
25°	966.9	960.8	955.8	934.3	924.1	937.9	971.5	999.0	1132.1	1076.0	808.5
27.5°	1047.5	1049.5	1036.9	1007.9	992.0	989.1	1003.6	1024.1	1154.0	1113.2	814.0
30°	1133.7	1134.7	1118.3	1088.3	1073.9	1055.3	1054.3	1066.6	1177.7	1156.0	819.3
32.5°	1232.0	1234.7	1207.9	1176.7	1151.4	1127.2	1115.4	1125.8	1220.2	1211.7	830.2
35°	1374.0	1362.4	1326.2	1279.1	1243.1	1211.5	1193.4	1200.2	1276.7	1278.6	851.9
37.5°	1520.4	1519.1	1479.1	1411.2	1352.3	1312.9	1282.0	1293.1	1356.2	1368.2	886.7
40°	1656.8	1659.9	1625.2	1566.0	1490.2	1422.6	1389.5	1397.0	1461.7	1476.9	929.0
42.5°	1745.9	1744.2	1746.9	1730.0	1653.9	1574.2	1524.5	1528.6	1584.3	1592.3	981.9
45°	1787.0	1780.4	1803.1	1856.7	1826.6	1742.8	1686.0	1680.9	1711.6	1709.4	1029.9
47.5°	1751.5	1739.4	1791.5	1920.7	1979.2	1953.8	1872.7	1863.5	1837.4	1820.0	1079.9
50°	1574.9	1569.6	1681.2	1890.3	2075.0	2148.9	2089.3	2055.2	1949.7	1901.7	1106.2
52.5°	1407.1	1392.4	1467.7	1735.0	2032.3	2305.9	2318.2	2257.6	2042.9	1925.1	1097.3
55°	1136.6	1118.5	1200.6	1425.5	1863.0	2325.9	2479.0	2447.4	2124.5	1896.1	1079.2
57.5°	690.4	672.5	793.3	1021.0	1489.9	2159.3	2439.4	2471.5	2187.3	1864.2	1067.3
60°	290.3	278.9	326.2	487.3	951.4	1774.6	2229.3	2309.5	2199.2	1820.5	1072.2
62.5°	150.9	145.9	148.5	195.1	384.7	1168.5	1855.5	1995.1	2079.9	1801.2	1077.0
65°	113.3	109.4	100.9	107.2	149.5	505.2	1333.5	1520.4	1821.2	1752.2	1044.4
67.5°	93.0	89.3	83.3	81.4	88.1	175.3	680.7	923.7	1427.1	1543.3	927.5
70°	74.1	72.9	71.0	67.4	66.2	85.0	244.1	376.5	943.7	1088.3	672.3
72.5°	61.8	62.1	59.9	56.7	52.4	54.8	97.3	128.7	456.6	521.8	281.6
75°	51.7	51.7	52.4	48.1	43.7	37.7	54.1	62.8	146.6	120.5	60.1
77.5°	40.6	41.1	44.2	40.6	35.0	23.7	29.5	33.6	43.5	34.8	22.0
80°	32.4	31.9	30.7	36.5	31.4	16.7	14.0	15.5	20.3	16.7	10.9
82.5°	22.7	22.5	21.5	24.6	24.4	12.3	9.2	9.4	12.3	10.6	6.8
85°	5.6	6.5	13.8	11.6	10.1	7.2	5.6	6.0	8.0	7.0	3.6
87.5°	2.4	2.4	6.3	7.5	4.8	3.1	2.4	2.7	4.1	4.1	2.2
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°	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0	645.0
2.5°	647.2	631.5	611.7	590.7	569.2	543.3	526.9	513.4	502.8	494.6	491.7
5°	649.6	619.4	574.5	518.7	462.0	408.8	367.8	337.3	312.2	298.5	292.4
7.5°	649.3	609.3	528.1	434.7	342.4	265.9	211.5	178.0	155.5	146.3	140.8
10°	649.1	596.0	475.2	341.5	228.9	154.1	113.5	94.7	86.4	83.3	82.8
12.5°	656.1	580.8	416.1	251.4	143.7	95.9	79.0	74.6	72.7	71.7	71.5
15°	660.0	566.8	353.8	177.5	96.8	75.8	70.5	68.6	67.9	67.4	67.1
17.5°	664.1	545.0	294.6	128.5	77.5	68.8	65.7	64.5	64.0	64.0	64.0
20°	664.8	521.6	235.9	94.7	68.8	64.2	61.1	59.9	59.2	58.7	58.7
22.5°	659.5	493.8	185.5	76.8	63.8	59.9	56.5	54.6	53.4	53.1	53.1
25°	646.2	454.5	142.2	67.4	59.6	55.5	51.4	49.3	48.3	48.3	48.3
27.5°	627.1	408.1	109.9	59.9	54.3	50.2	46.6	44.7	44.4	44.2	44.4
30°	605.4	363.4	84.0	53.1	48.1	44.7	41.8	40.8	41.3	41.3	41.5
32.5°	583.7	318.8	65.7	47.8	42.5	39.6	38.2	38.2	38.9	38.9	38.9
35°	565.1	275.0	55.1	43.5	38.6	36.2	35.5	36.2	36.7	36.9	36.9
37.5°	554.7	237.4	48.5	39.6	35.5	33.6	33.3	34.0	35.0	35.7	36.0
40°	550.8	208.4	44.7	36.7	32.6	31.4	31.2	32.1	33.8	35.0	35.3
42.5°	551.1	182.8	41.3	33.8	30.7	29.0	29.0	30.4	32.1	33.3	33.3
45°	552.7	160.8	37.9	30.9	29.0	26.1	26.3	28.3	29.5	30.7	30.7
47.5°	554.2	143.2	34.3	27.8	25.1	23.7	24.1	25.6	27.3	29.2	29.2
50°	545.7	130.6	30.7	24.4	22.0	21.5	22.5	23.7	26.1	28.0	28.3
52.5°	525.5	119.3	27.5	21.7	19.8	20.0	21.3	22.0	23.9	24.1	24.4
55°	516.5	113.5	25.1	19.8	18.1	18.8	19.6	19.8	19.3	18.1	18.1
57.5°	514.6	109.6	22.7	17.9	16.7	17.6	17.4	15.9	14.5	13.0	12.8
60°	516.5	104.3	20.8	15.5	15.2	15.5	14.7	12.1	10.1	9.2	8.7
62.5°	505.4	96.6	19.1	13.3	13.3	13.0	11.1	8.2	6.5	5.8	5.6
65°	468.7	81.4	17.4	11.1	10.9	10.4	7.5	5.6	4.3	3.6	3.4
67.5°	396.5	63.0	15.7	9.2	8.7	7.2	4.8	3.6	2.4	2.2	1.9
70°	270.5	39.1	13.3	7.2	6.5	4.6	2.9	2.2	1.4	1.2	1.0
72.5°	98.0	22.7	11.1	5.6	4.3	2.9	1.7	1.0	0.7	0.7	0.5
75°	23.2	15.9	8.5	4.1	2.9	1.7	1.0	0.7	0.5	0.5	0.2
77.5°	10.6	12.3	5.6	2.4	1.9	1.2	0.7	0.5	0.2	0.2	0.0
80°	6.0	8.7	2.7	1.7	1.4	1.0	0.5	0.2	0.2	0.0	0.0
82.5°	3.1	4.8	1.9	1.4	1.2	0.7	0.5	0.0	0.0	0.0	0.0
85°	2.2	2.4	1.4	1.2	1.0	0.7	0.5	0.0	0.0	0.0	0.0
87.5°	1.7	1.7	1.4	1.2	1.0	0.7	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)