

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: P674528

Luminaire Tested: **CCP-SA-1D-727-U-T2R-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674528  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1D-727-U-T2R-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ T2R distribution lens and House Side Shield  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

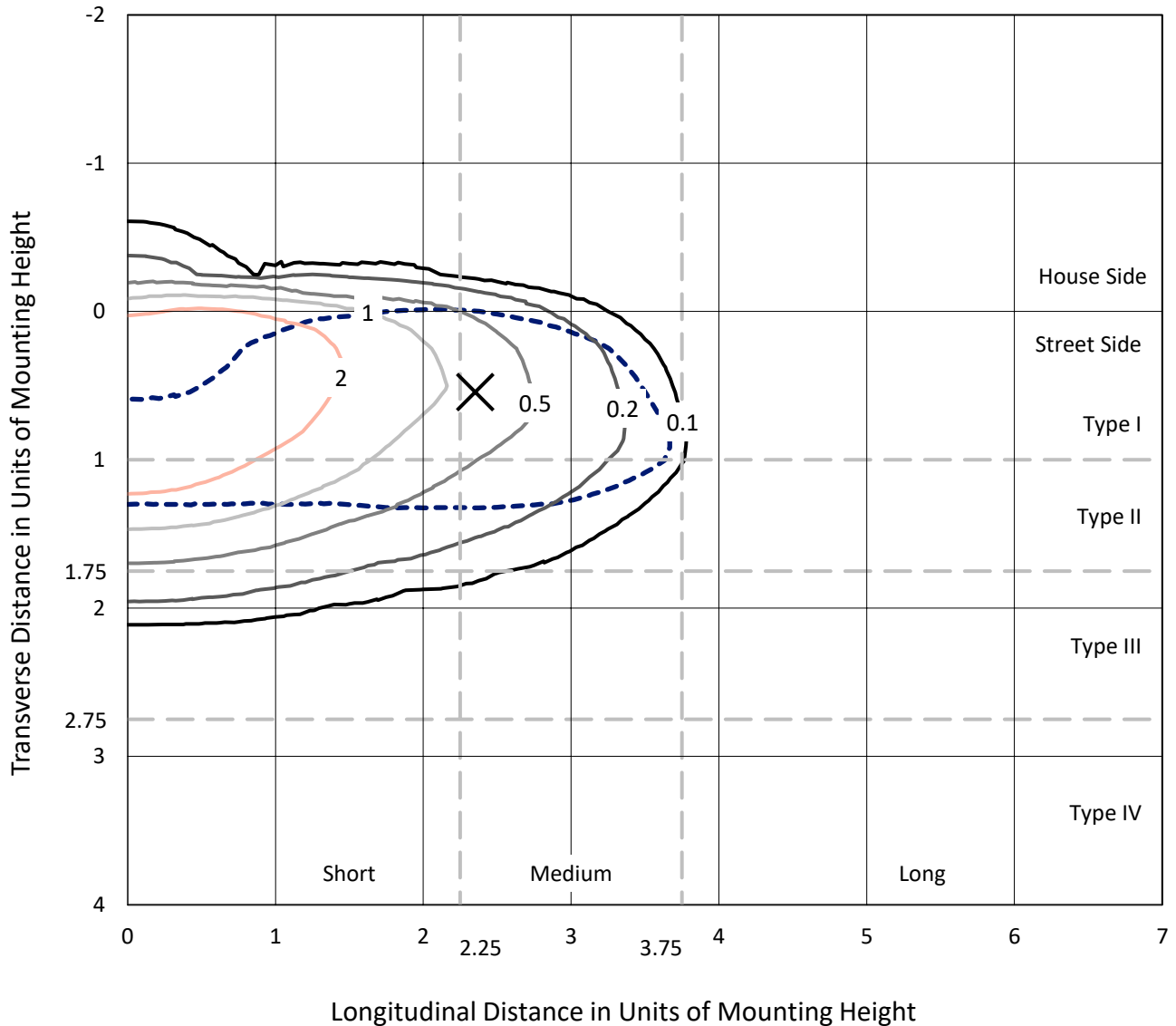
Lumens per Lamp: N/A  
Luminaire Lumens: 3776.4 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1

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

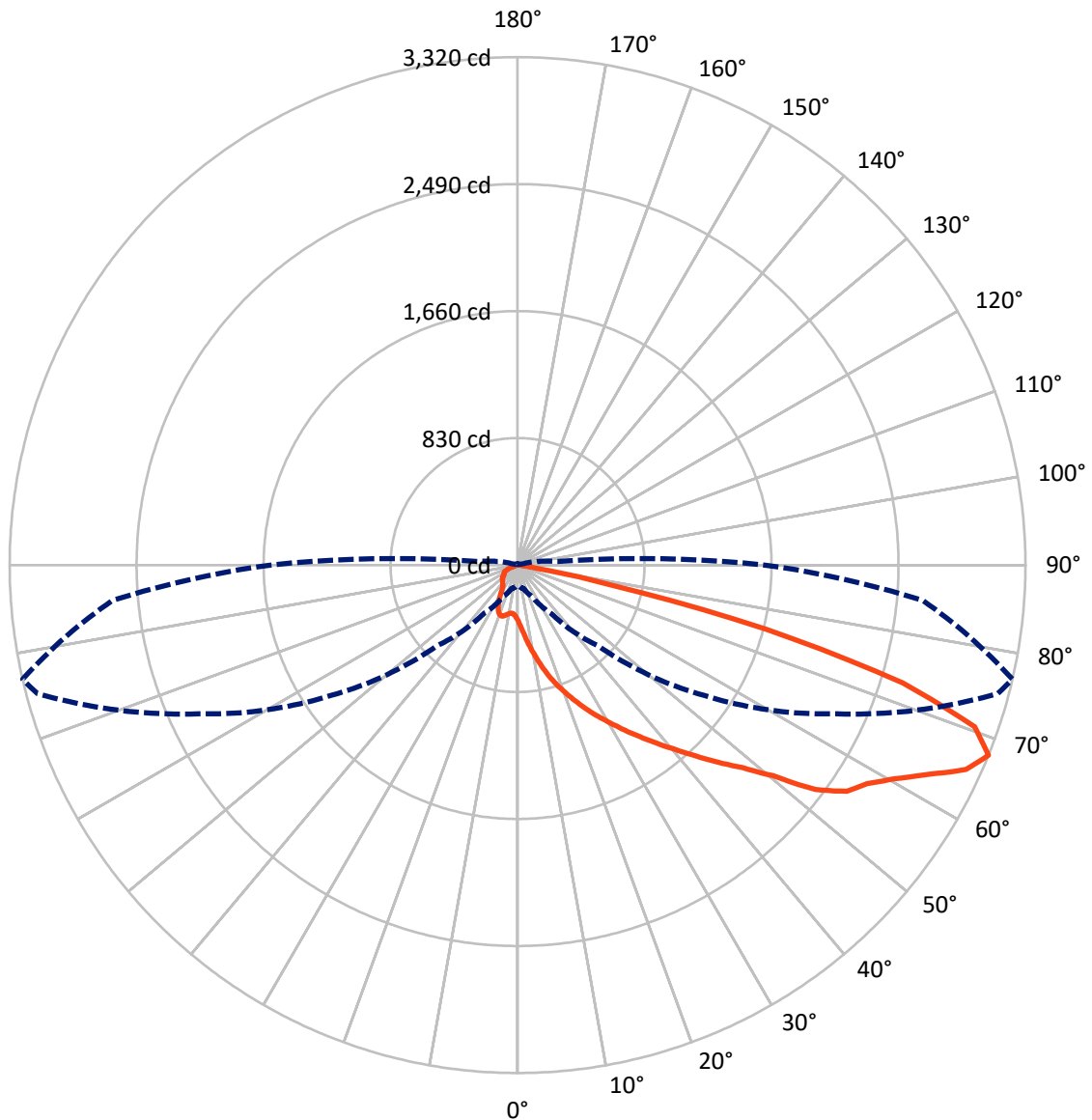
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	236.0	0.0	236.0
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	3540.4	0.0	3540.4
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	3776.4	0.0	3776.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.5	1.1
10°-20°	157.2	4.2
20°-30°	307.1	8.1
30°-40°	536.9	14.2
40°-50°	783.1	20.7
50°-60°	915.7	24.2
60°-70°	742.3	19.7
70°-80°	278.9	7.4
80°-90°	12.7	0.3
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°	3776.4	100.0
0°-180°	3776.4	100.0

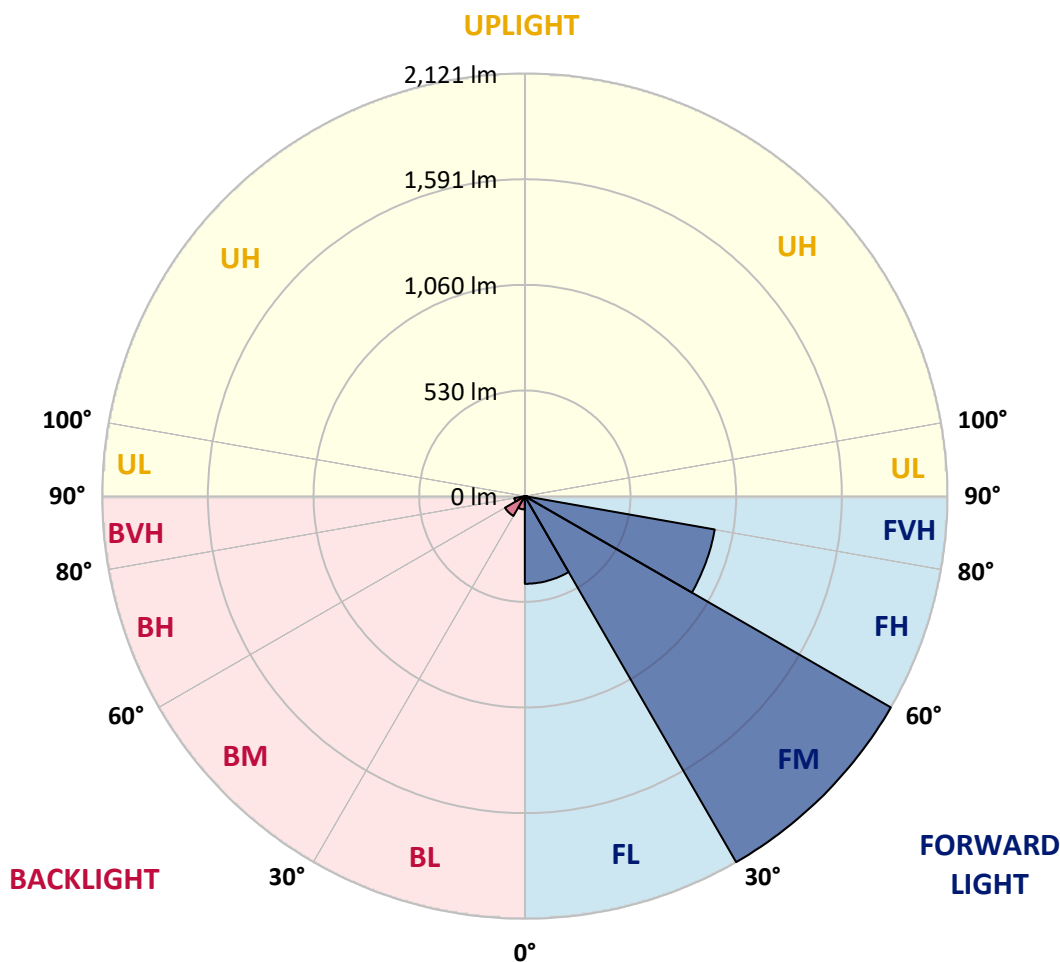


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	439.9	11.6			
FM (30°-60°)	2120.9	56.2			
FH (60°-80°)	967.6	25.6			G1/1800
FVH (80°-90°)	11.9	0.3			G1/100
BL (0°-30°)	66.9	1.8	B0/110		
BM (30°-60°)	114.8	3.0	B0/220		
BH (60°-80°)	53.5	1.4	B0/110		G0/110
BVH (80°-90°)	0.7	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-G1**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	361.7	361.7	361.7	361.7	361.7	361.7	361.7	361.7	361.7	361.7	361.7
2.5°	543.1	523.3	527.1	518.9	508.3	483.8	457.8	431.9	408.8	403.6	380.5
5°	695.5	689.3	682.9	677.4	655.2	624.6	577.8	518.5	465.0	455.8	407.7
7.5°	813.8	804.6	810.4	793.6	770.5	740.8	681.5	618.1	535.6	521.9	447.3
10°	901.0	895.9	898.6	890.8	879.6	849.9	791.3	711.8	616.4	590.5	491.6
12.5°	966.5	967.5	979.4	980.1	970.9	946.7	884.7	801.8	689.7	666.5	540.7
15°	1014.2	1015.2	1029.9	1045.6	1056.2	1043.5	987.3	894.6	775.9	744.2	592.2
17.5°	1022.1	1022.7	1048.7	1080.4	1113.1	1124.0	1080.7	986.6	854.7	818.5	651.1
20°	1027.2	1033.0	1056.2	1092.6	1144.4	1178.2	1154.7	1074.9	931.0	889.1	709.1
22.5°	1089.2	1089.2	1102.9	1128.8	1170.0	1222.9	1218.1	1156.0	1005.4	963.8	766.7
25°	1220.8	1220.8	1207.5	1200.7	1222.9	1264.4	1276.4	1242.6	1090.2	1041.2	827.4
27.5°	1395.0	1395.0	1374.2	1324.1	1305.0	1322.4	1335.0	1318.0	1168.7	1120.2	891.5
30°	1575.7	1581.8	1545.7	1482.0	1415.1	1401.8	1389.6	1385.8	1252.2	1197.6	956.6
32.5°	1757.1	1756.4	1711.4	1632.0	1544.7	1497.6	1457.7	1453.3	1340.8	1287.3	1018.3
35°	1902.0	1902.3	1854.9	1773.4	1672.5	1612.5	1548.4	1527.6	1438.0	1378.3	1091.9
37.5°	2027.4	2020.3	1969.1	1891.7	1797.6	1735.6	1655.8	1601.6	1538.5	1477.9	1165.6
40°	2099.3	2089.8	2040.0	1966.4	1895.1	1847.8	1777.5	1690.9	1649.0	1583.5	1249.4
42.5°	2109.9	2101.7	2068.7	2024.3	1966.0	1924.5	1905.7	1791.8	1764.9	1705.6	1349.7
45°	2080.3	2067.0	2056.1	2032.9	2016.5	1996.4	2022.0	1899.2	1897.9	1838.9	1448.9
47.5°	2006.6	1988.6	1991.3	2016.8	2035.3	2053.3	2133.1	2040.0	2031.8	1976.6	1579.1
50°	1880.8	1872.0	1902.0	1952.4	2025.4	2097.6	2243.9	2183.9	2216.3	2164.5	1758.8
52.5°	1625.1	1636.0	1725.7	1847.1	1973.2	2118.4	2347.9	2398.7	2481.5	2438.9	1939.5
55°	1318.3	1314.2	1433.9	1649.3	1850.8	2105.1	2393.2	2525.1	2655.4	2610.7	2040.0
57.5°	1061.9	1069.1	1149.9	1363.0	1643.2	2002.5	2403.8	2591.3	2725.3	2695.6	2133.1
60°	797.1	803.9	877.5	1063.0	1367.1	1788.4	2316.5	2614.5	2856.5	2834.0	2281.7
62.5°	507.3	516.1	590.1	770.5	1044.9	1455.7	2120.5	2590.3	2993.6	3012.3	2484.6
65°	249.5	257.4	311.9	450.0	698.5	1088.5	1847.1	2497.9	3168.1	3221.6	2647.2
67.5°	138.1	141.8	160.6	229.1	389.7	746.6	1484.3	2300.5	3248.2	3319.8	2658.1
70°	107.4	108.4	115.6	133.6	189.9	438.1	1055.8	1971.8	3082.2	3168.8	2436.9
72.5°	90.3	91.7	95.1	101.3	118.6	228.1	663.4	1523.9	2593.3	2632.5	1885.3
75°	66.1	68.2	77.7	83.2	93.8	138.4	292.5	915.7	1713.8	1675.3	1054.8
77.5°	55.6	57.3	59.7	67.5	77.4	94.4	102.6	383.9	697.5	606.5	276.8
80°	37.8	39.9	46.4	50.5	65.5	62.4	42.6	103.0	140.1	114.2	53.2
82.5°	26.9	28.6	32.0	41.3	47.4	33.1	23.2	31.4	33.8	32.0	17.4
85°	8.5	10.9	23.2	34.1	25.6	11.3	14.7	11.9	10.6	10.2	6.8
87.5°	1.7	1.7	11.6	13.6	10.2	5.8	5.1	3.8	4.8	4.8	3.8
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°	361.7	361.7	361.7	361.7	361.7	361.7	361.7	361.7	361.7	361.7	361.7
2.5°	369.6	354.2	332.1	311.3	290.1	275.1	264.5	254.0	249.9	248.2	243.8
5°	385.9	356.6	312.6	277.2	251.3	234.9	225.0	216.5	211.0	209.3	206.9
7.5°	409.4	367.2	304.1	263.2	237.3	219.5	203.5	185.1	170.5	164.7	162.3
10°	435.0	383.2	305.5	260.5	226.0	187.2	151.4	121.7	108.8	104.0	100.6
12.5°	472.5	400.9	311.3	257.4	192.3	133.6	96.8	84.5	81.5	80.8	80.1
15°	510.0	425.8	320.8	236.9	143.5	91.0	80.5	76.0	74.3	72.6	72.6
17.5°	547.8	449.7	324.5	197.0	99.2	78.8	73.3	69.5	66.8	65.5	64.4
20°	590.5	474.9	313.6	148.3	79.4	71.9	65.8	61.4	59.0	57.6	56.6
22.5°	636.5	499.8	289.8	103.3	72.3	64.8	59.0	54.5	52.2	50.8	50.5
25°	679.8	521.3	251.6	77.7	65.1	58.0	52.5	48.8	47.0	45.7	45.3
27.5°	724.4	539.7	201.8	68.5	59.3	52.5	47.0	44.0	42.3	41.3	40.9
30°	768.1	552.3	150.3	62.7	54.2	47.4	42.6	40.2	38.5	37.5	37.2
32.5°	813.1	559.4	101.6	57.6	49.1	43.0	38.9	36.5	35.5	34.4	34.4
35°	856.4	558.4	73.3	52.8	45.0	38.9	35.1	33.4	33.1	32.0	32.0
37.5°	903.8	551.3	62.4	48.4	40.6	35.1	32.0	31.0	30.7	30.0	29.7
40°	957.6	535.2	56.9	45.0	36.8	32.0	29.3	28.6	28.3	27.6	27.6
42.5°	1016.6	514.4	53.9	41.3	33.8	29.0	26.9	25.9	25.6	24.9	24.9
45°	1085.1	494.7	51.8	37.5	31.0	26.6	24.5	23.5	23.2	22.5	22.5
47.5°	1178.5	483.4	48.4	34.1	28.0	24.2	22.2	21.5	20.8	20.1	20.1
50°	1307.1	470.1	44.0	30.7	25.6	21.8	20.5	19.4	19.1	18.4	18.4
52.5°	1412.7	441.8	39.5	27.3	22.8	20.1	18.8	18.1	17.4	17.0	17.0
55°	1449.9	408.8	35.1	24.5	20.8	18.8	17.4	16.7	16.4	16.0	16.0
57.5°	1509.2	398.2	31.0	21.8	18.8	17.4	16.0	15.7	15.3	15.0	14.7
60°	1610.5	404.3	27.3	19.4	17.0	15.7	14.7	14.3	13.6	13.0	13.0
62.5°	1708.7	396.8	23.2	17.0	14.7	14.0	13.0	12.3	10.9	9.9	9.2
65°	1732.5	346.7	20.1	14.3	12.3	11.6	10.6	9.2	7.2	5.8	5.8
67.5°	1617.0	263.5	17.4	12.3	10.2	9.5	7.5	6.1	4.4	3.4	3.4
70°	1334.3	167.0	14.3	9.5	8.5	6.5	4.8	4.4	3.1	2.7	2.4
72.5°	962.7	91.4	11.9	7.8	6.1	4.1	3.4	2.7	2.0	1.4	1.4
75°	487.5	43.0	8.9	6.1	4.1	2.7	2.0	1.4	1.4	1.0	1.0
77.5°	138.1	19.8	5.8	4.1	2.7	1.7	1.4	1.0	1.0	0.7	0.7
80°	27.3	9.9	3.8	2.7	2.0	1.4	1.0	0.7	0.7	0.3	0.3
82.5°	9.9	5.1	2.7	2.0	1.7	1.4	0.7	0.3	0.3	0.0	0.0
85°	5.1	2.7	2.0	1.7	1.4	1.0	0.7	0.3	0.0	0.0	0.0
87.5°	2.7	2.0	1.7	1.7	1.4	1.0	0.7	0.3	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)