

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: P673521

Luminaire Tested: **CCP-SA-1E-727-U-T4W-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P673521  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1E-727-U-T4W-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1050mA w/ T4W distribution lens and House Side Shield  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

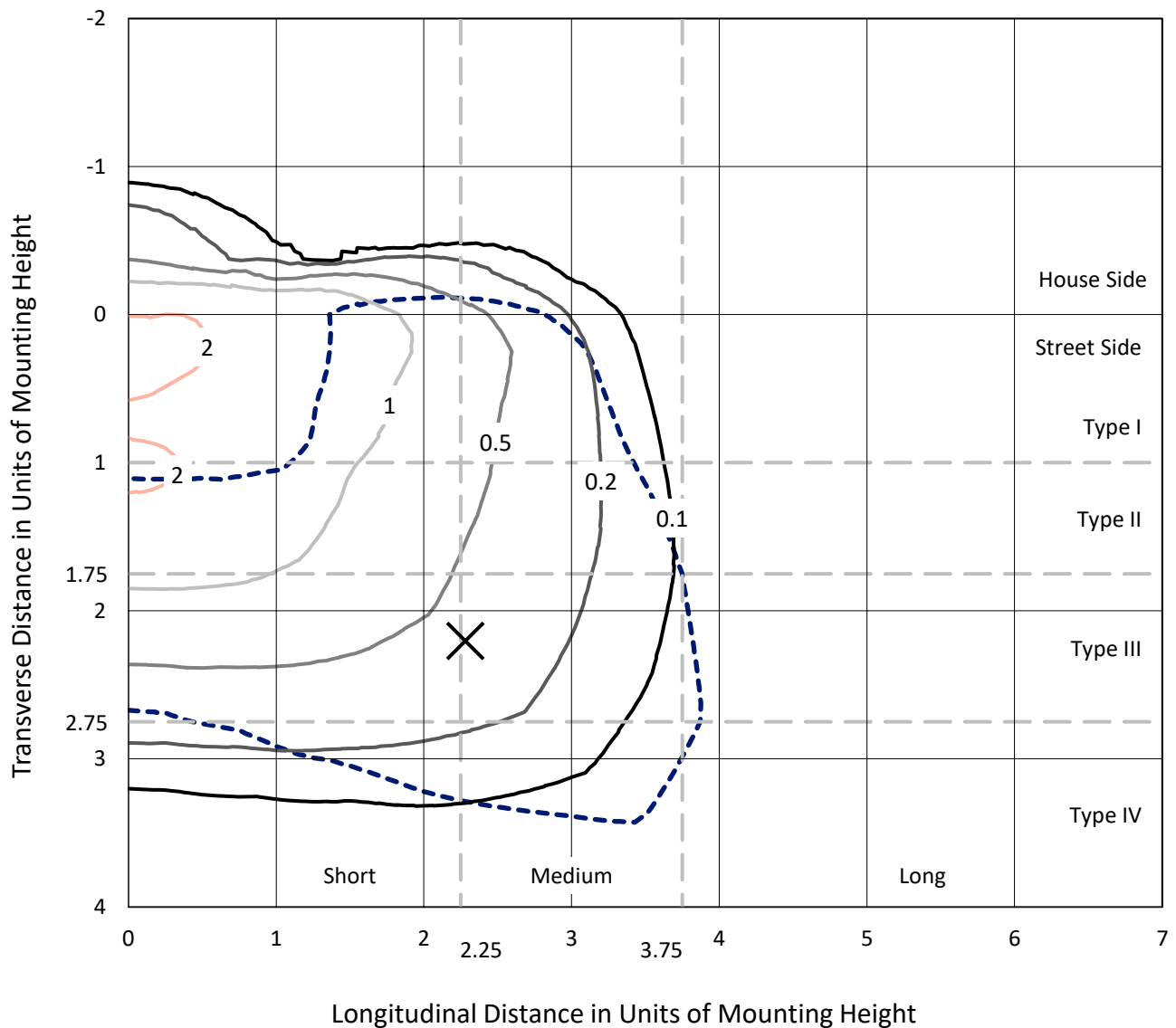
Lumens per Lamp: N/A  
Luminaire Lumens: 4125.3 lumens  
Efficiency: N/A  
Efficacy: 73.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1  
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

REPORT NUMBER: P673521  
 CATALOG NUMBER: CCP-SA-1E-727-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

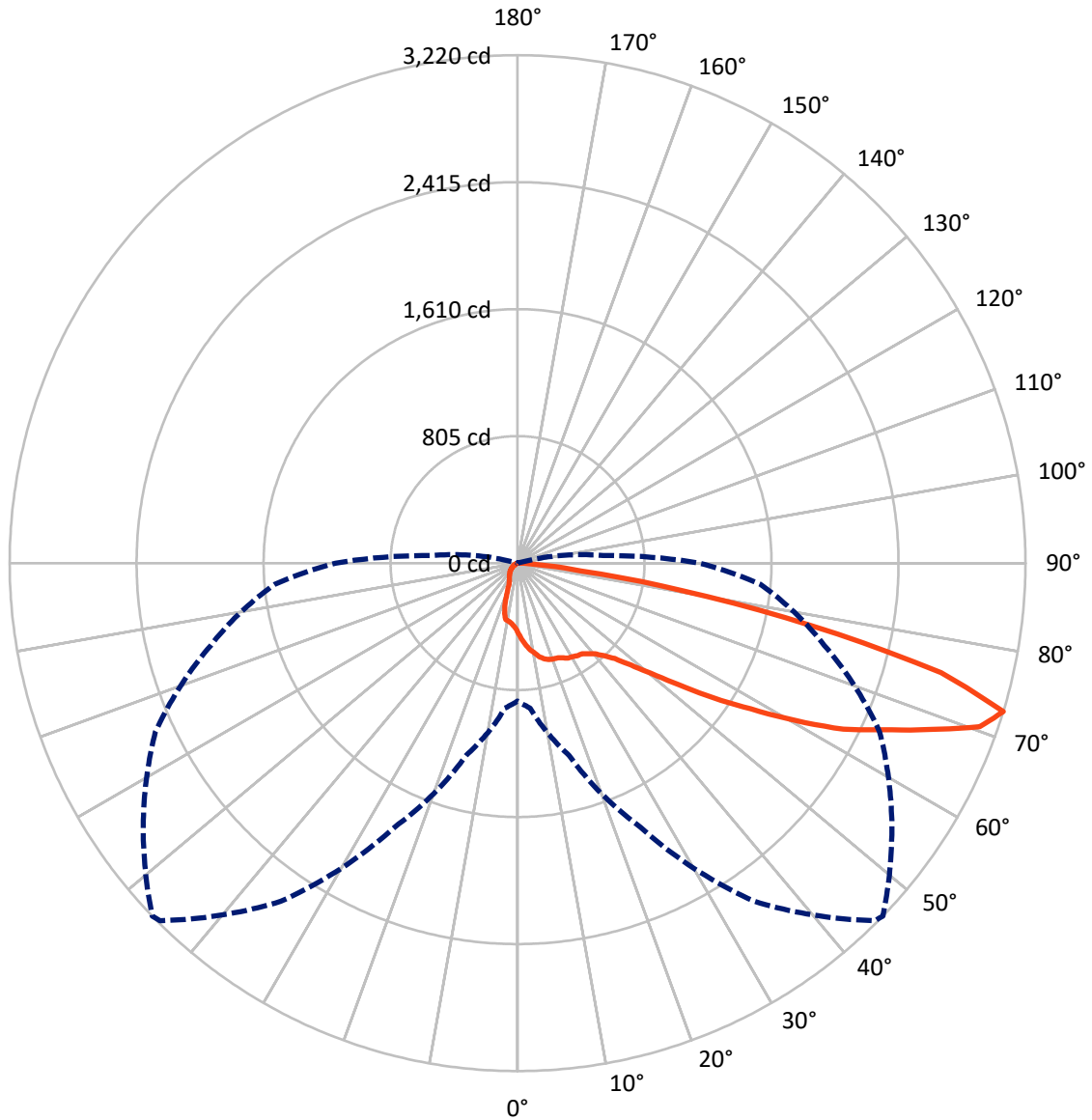
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.9 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P673521  
CATALOG NUMBER: CCP-SA-1E-727-U-T4W-HSS

### Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: CCP-SA-1E-727-U-T4W-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	444.1	0.0	444.1
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	3681.2	0.0	3681.2
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	4125.3	0.0	4125.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.1	1.1
10°-20°	133.2	3.2
20°-30°	208.6	5.1
30°-40°	292.1	7.1
40°-50°	481.7	11.7
50°-60°	865.7	21.0
60°-70°	1254.7	30.4
70°-80°	783.1	19.0
80°-90°	62.1	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°	4125.3	100.0
0°-180°	4125.3	100.0



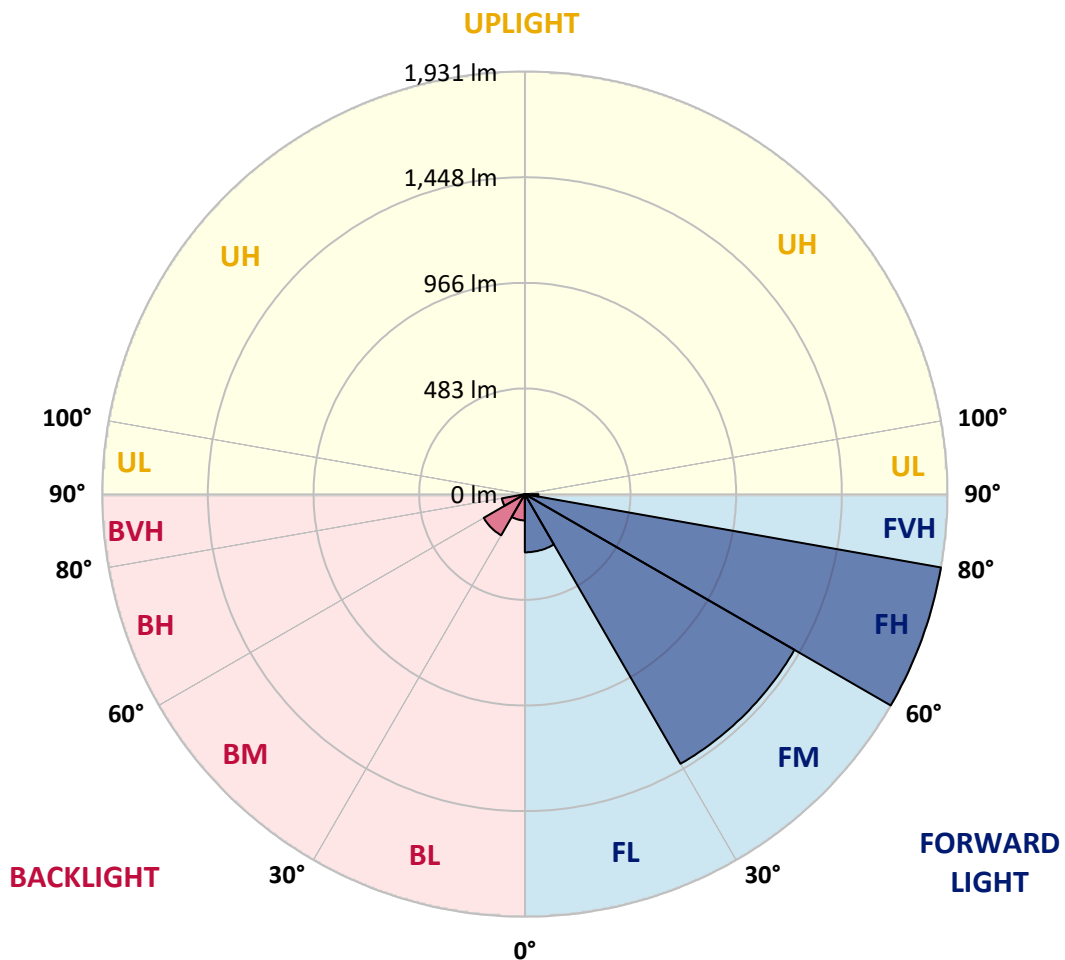
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 CATALOG NUMBER: CCP-SA-1E-727-U-T4W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	265.9	6.4			
FM (30°-60°)	1422.5	34.5			
FH (60°-80°)	1931.0	46.8			G2/5000
FVH (80°-90°)	61.7	1.5			G1/100
BL (0°-30°)	120.0	2.9	B1/500		
BM (30°-60°)	217.0	5.3	B0/220		
BH (60°-80°)	106.8	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





REPORT NUMBER: P673521

CATALOG NUMBER: CCP-SA-1E-727-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	440.9	440.9	440.9	440.9	440.9	440.9	440.9	440.9	440.9	440.9	440.9
2.5°	493.5	491.4	494.6	493.5	480.9	483.0	481.9	473.5	458.8	450.4	445.1
5°	550.3	555.6	551.4	541.9	534.5	519.8	517.7	504.0	480.9	466.1	450.4
7.5°	609.3	609.3	600.8	586.1	570.3	554.5	552.4	529.3	509.3	484.0	461.9
10°	653.4	648.2	641.9	626.1	608.2	587.2	576.6	559.8	537.7	507.2	478.8
12.5°	692.4	684.0	673.4	650.3	629.2	606.1	608.2	580.8	566.1	538.8	496.7
15°	714.5	707.1	697.6	676.6	644.0	633.5	629.2	612.4	586.1	558.7	518.8
17.5°	719.7	714.5	701.9	674.5	656.6	644.0	642.9	622.9	611.4	588.2	544.0
20°	709.2	699.7	690.3	672.4	655.6	651.3	648.2	648.2	633.5	602.9	559.8
22.5°	691.3	680.8	675.5	665.0	651.3	650.3	652.4	650.3	638.7	618.7	576.6
25°	677.6	672.4	664.0	660.8	652.4	668.2	665.0	661.9	658.7	635.6	602.9
27.5°	681.9	680.8	674.5	661.9	655.6	672.4	681.9	682.9	681.9	658.7	627.1
30°	684.0	678.7	672.4	669.2	671.3	688.2	688.2	711.3	701.9	678.7	651.3
32.5°	708.2	705.0	684.0	676.6	677.6	697.6	698.7	721.8	718.7	702.9	672.4
35°	759.7	738.7	708.2	687.1	687.1	713.4	705.0	738.7	747.1	721.8	687.1
37.5°	836.5	820.8	766.0	718.7	700.8	719.7	728.2	747.1	772.4	750.3	716.6
40°	989.1	986.0	908.1	806.0	735.5	752.4	755.5	785.0	801.8	771.3	761.8
42.5°	1212.2	1196.4	1123.8	962.8	798.7	791.3	802.9	821.8	861.8	836.5	813.4
45°	1430.0	1422.6	1350.0	1170.1	913.4	869.2	862.8	896.5	955.4	928.1	910.2
47.5°	1587.8	1573.1	1532.1	1380.6	1081.7	960.7	964.9	998.6	1073.3	1052.2	1057.5
50°	1708.9	1701.5	1658.3	1575.2	1294.3	1104.9	1096.4	1130.1	1231.1	1244.8	1259.5
52.5°	1841.4	1855.1	1797.2	1726.7	1545.8	1298.5	1279.5	1291.1	1421.6	1453.2	1494.2
55°	1968.8	1990.9	1933.0	1923.5	1808.8	1513.1	1510.0	1482.6	1651.0	1655.2	1677.3
57.5°	2051.9	2044.5	2040.3	2091.9	2071.9	1759.4	1743.6	1716.2	1868.8	1841.4	1907.7
60°	2058.2	2079.2	2149.7	2277.1	2312.8	2048.7	2025.6	1950.9	2057.1	1991.9	2118.2
62.5°	2105.6	2122.4	2252.9	2428.6	2474.9	2303.4	2319.2	2129.8	2218.1	2166.6	2351.8
65°	1985.6	2038.2	2300.2	2546.4	2687.4	2561.2	2545.4	2360.2	2383.3	2334.9	2582.2
67.5°	1877.2	1897.2	2170.8	2582.2	2855.8	2820.0	2813.7	2564.3	2553.8	2464.4	2647.5
70°	1525.8	1550.0	1820.4	2399.1	2912.6	3122.0	3107.3	2850.5	2669.6	2393.9	2312.8
72.5°	874.4	922.8	1261.6	1847.8	2616.9	3206.2	3219.9	2896.8	2532.8	2013.0	1544.7
75°	286.2	299.9	524.0	1047.0	1957.2	2796.9	2772.7	2489.6	2043.5	1329.0	697.6
77.5°	96.8	98.9	154.7	378.8	1084.9	1889.8	1903.5	1779.4	1255.3	552.4	192.6
80°	49.5	52.6	75.8	142.1	446.2	1029.1	1051.2	1014.4	526.1	163.1	46.3
82.5°	23.1	24.2	44.2	78.9	204.1	404.1	404.1	444.0	186.2	91.5	18.9
85°	8.4	8.4	23.1	45.2	86.3	134.7	135.7	136.8	97.9	68.4	8.4
87.5°	3.2	3.2	11.6	18.9	31.6	41.0	41.0	32.6	49.5	45.2	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P673521  
 CATALOG NUMBER: CCP-SA-1E-727-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	440.9	440.9	440.9	440.9	440.9	440.9	440.9	440.9	440.9	440.9	440.9
2.5°	443.0	436.7	431.4	424.1	414.6	409.3	410.4	404.1	404.1	400.9	399.9
5°	443.0	436.7	423.0	410.4	402.0	391.4	386.2	382.0	382.0	379.9	380.9
7.5°	446.2	436.7	417.7	400.9	387.2	376.7	368.3	367.2	365.1	359.9	364.1
10°	465.1	451.4	419.8	396.7	380.9	369.3	354.6	350.4	344.1	334.6	335.7
12.5°	480.9	463.0	434.6	403.0	383.0	364.1	330.4	293.6	277.8	261.0	262.0
15°	504.0	478.8	439.8	411.4	383.0	322.0	261.0	213.6	188.4	175.7	175.7
17.5°	516.7	495.6	454.6	416.7	352.5	262.0	185.2	144.2	139.9	142.1	142.1
20°	543.0	514.6	471.4	420.9	302.0	186.2	135.7	131.5	133.6	137.8	136.8
22.5°	559.8	531.4	484.0	402.0	233.6	133.6	127.3	125.2	127.3	132.6	132.6
25°	573.5	555.6	504.0	355.7	165.2	121.0	118.9	121.0	123.1	125.2	128.4
27.5°	607.1	576.6	517.7	295.7	118.9	112.6	114.7	115.7	115.7	118.9	120.0
30°	629.2	605.0	528.2	228.3	105.2	104.2	106.3	107.3	108.4	111.5	112.6
32.5°	650.3	641.9	514.6	154.7	98.9	96.8	95.8	96.8	101.0	104.2	103.1
35°	680.8	675.5	494.6	107.3	92.6	88.4	86.3	87.3	90.5	93.7	92.6
37.5°	717.6	722.9	446.2	93.7	86.3	81.0	76.8	76.8	77.9	81.0	82.1
40°	760.8	774.5	389.3	87.3	82.1	75.8	71.6	66.3	65.2	64.2	65.2
42.5°	839.7	855.5	325.1	83.1	75.8	68.4	62.1	55.8	50.5	47.4	47.4
45°	950.2	937.6	241.0	78.9	72.6	62.1	52.6	45.2	37.9	34.7	34.7
47.5°	1102.8	1059.6	165.2	74.7	67.3	54.7	44.2	34.7	28.4	25.3	25.3
50°	1314.3	1172.2	107.3	70.5	64.2	47.4	35.8	25.3	21.0	20.0	21.0
52.5°	1514.2	1286.9	85.2	65.2	57.9	41.0	27.4	21.0	18.9	17.9	17.9
55°	1698.3	1344.8	75.8	60.0	52.6	33.7	23.1	17.9	16.8	15.8	15.8
57.5°	1854.1	1364.8	65.2	52.6	42.1	26.3	18.9	15.8	13.7	12.6	12.6
60°	1988.8	1370.0	50.5	42.1	30.5	20.0	15.8	13.7	11.6	9.5	9.5
62.5°	2096.1	1333.2	35.8	29.5	21.0	15.8	13.7	9.5	6.3	4.2	3.2
65°	2181.3	1259.5	24.2	20.0	13.7	11.6	8.4	4.2	1.1	0.0	0.0
67.5°	2081.3	1092.2	18.9	14.7	9.5	7.4	4.2	1.1	0.0	0.0	0.0
70°	1697.3	847.1	13.7	9.5	6.3	2.1	1.1	0.0	0.0	0.0	0.0
72.5°	1155.4	546.1	10.5	6.3	3.2	1.1	0.0	0.0	0.0	0.0	0.0
75°	518.8	195.7	7.4	4.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	126.3	46.3	5.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	33.7	11.6	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	12.6	4.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	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)