

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: P673306

Luminaire Tested: **CCP-SA-1A-830-U-T3-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P673306  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1A-830-U-T3-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @350mA w/ T3 distribution lens and House Side Shield  
Light Source: (16) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

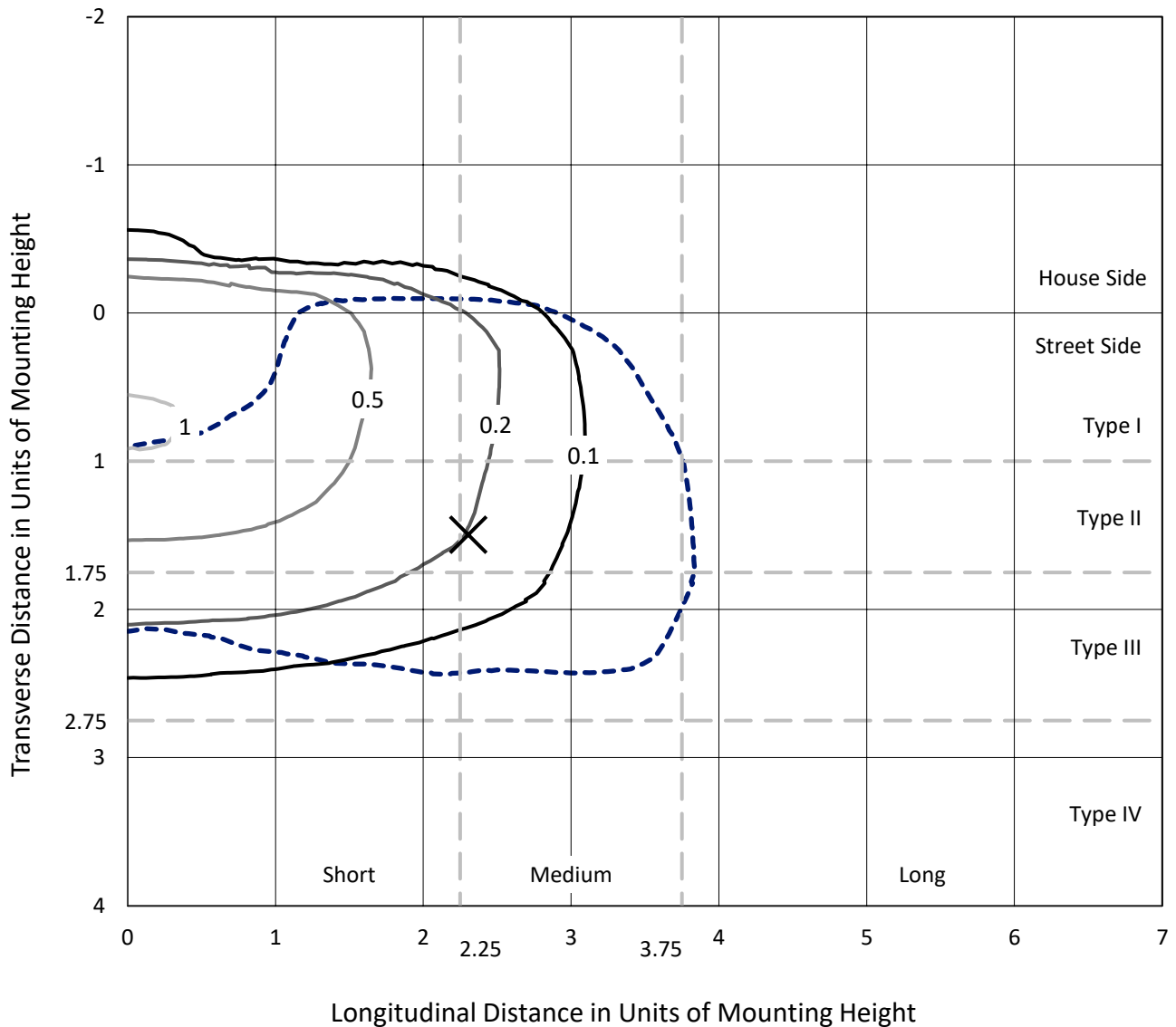
Lumens per Lamp: N/A  
Luminaire Lumens: 1566.1 lumens  
Efficiency: N/A  
Efficacy: 87.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B0 - U0 - G0

Input Watts (W): 18  
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: P673306  
 CATALOG NUMBER: CCP-SA-1A-830-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

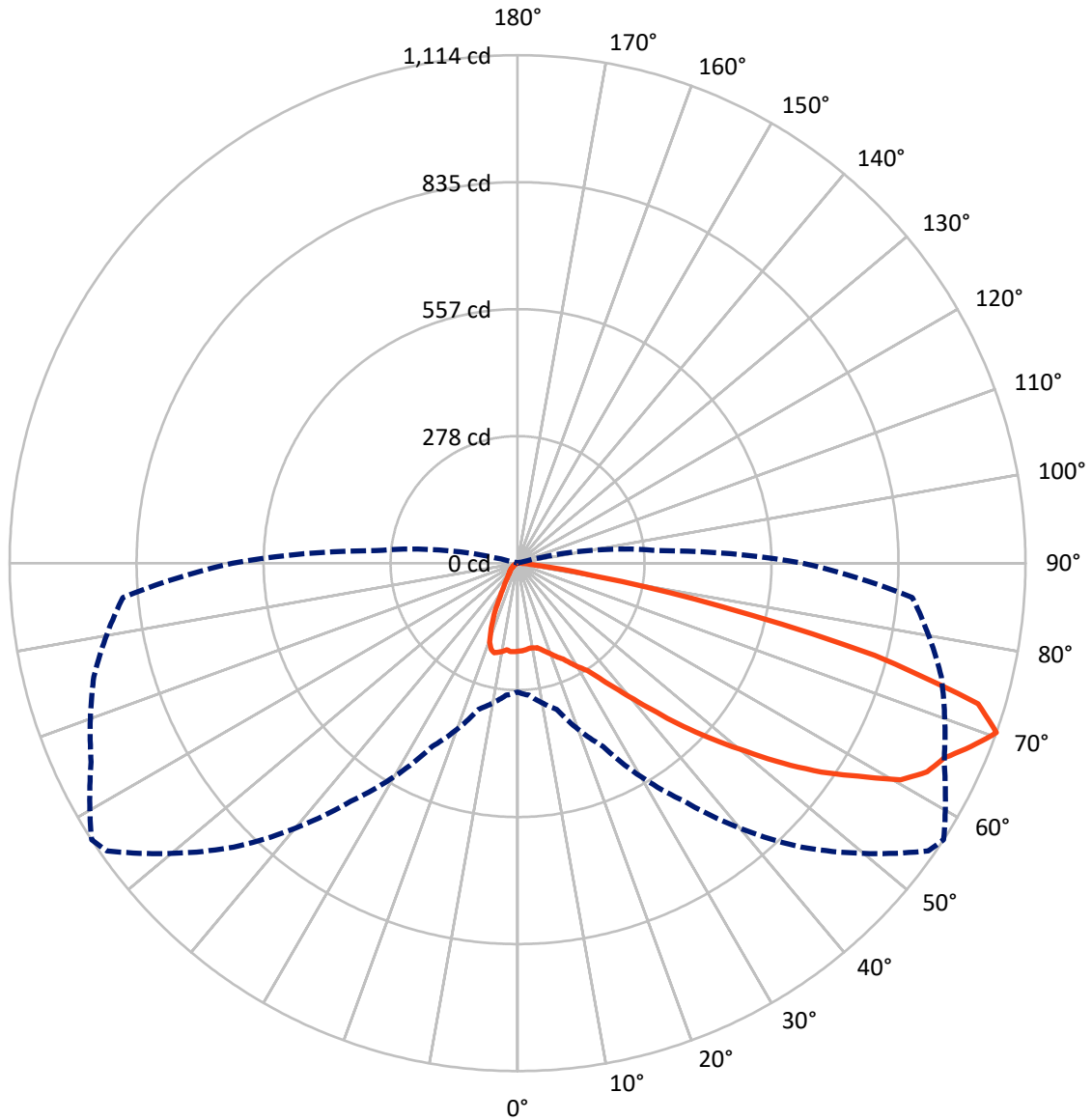
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.1 fc  
 Type III - Medium - N/A

REPORT NUMBER: P673306  
CATALOG NUMBER: CCP-SA-1A-830-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P673306

CATALOG NUMBER: CCP-SA-1A-830-U-T3-HSS

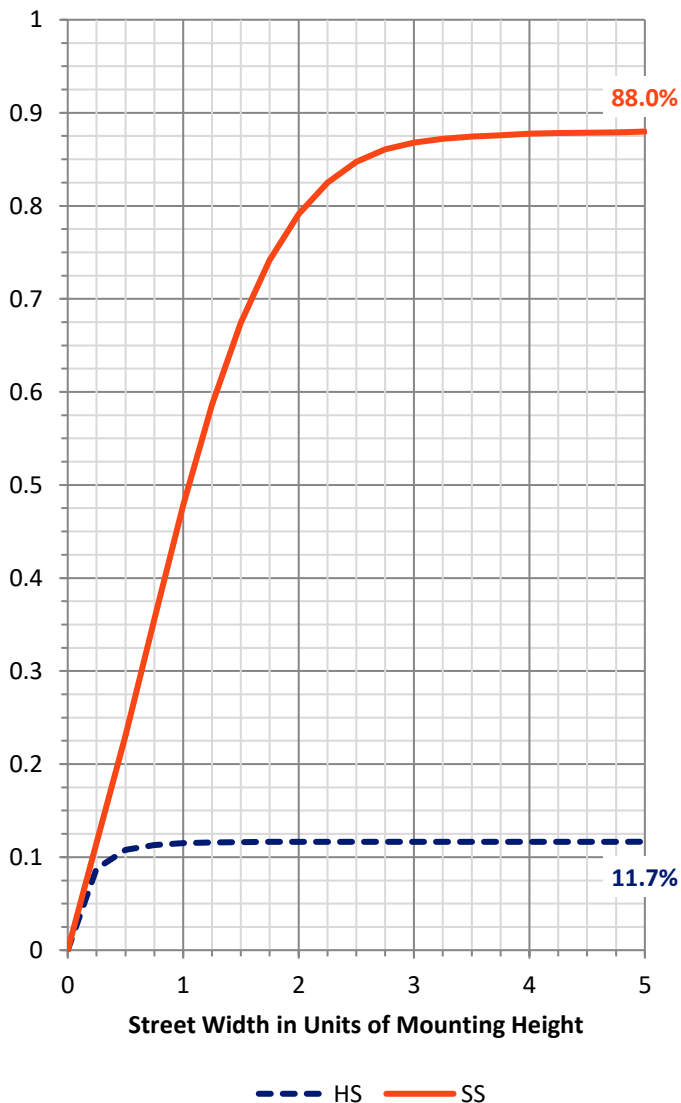
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	184.6	0.0	184.6
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	1381.5	0.0	1381.5
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	1566.1	0.0	1566.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18.1	1.2
10°-20°	50.5	3.2
20°-30°	85.0	5.4
30°-40°	145.6	9.3
40°-50°	244.4	15.6
50°-60°	375.1	24.0
60°-70°	433.1	27.7
70°-80°	204.6	13.1
80°-90°	9.7	0.6
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°	1566.1	100.0
0°-180°	1566.1	100.0



REPORT NUMBER: P673306

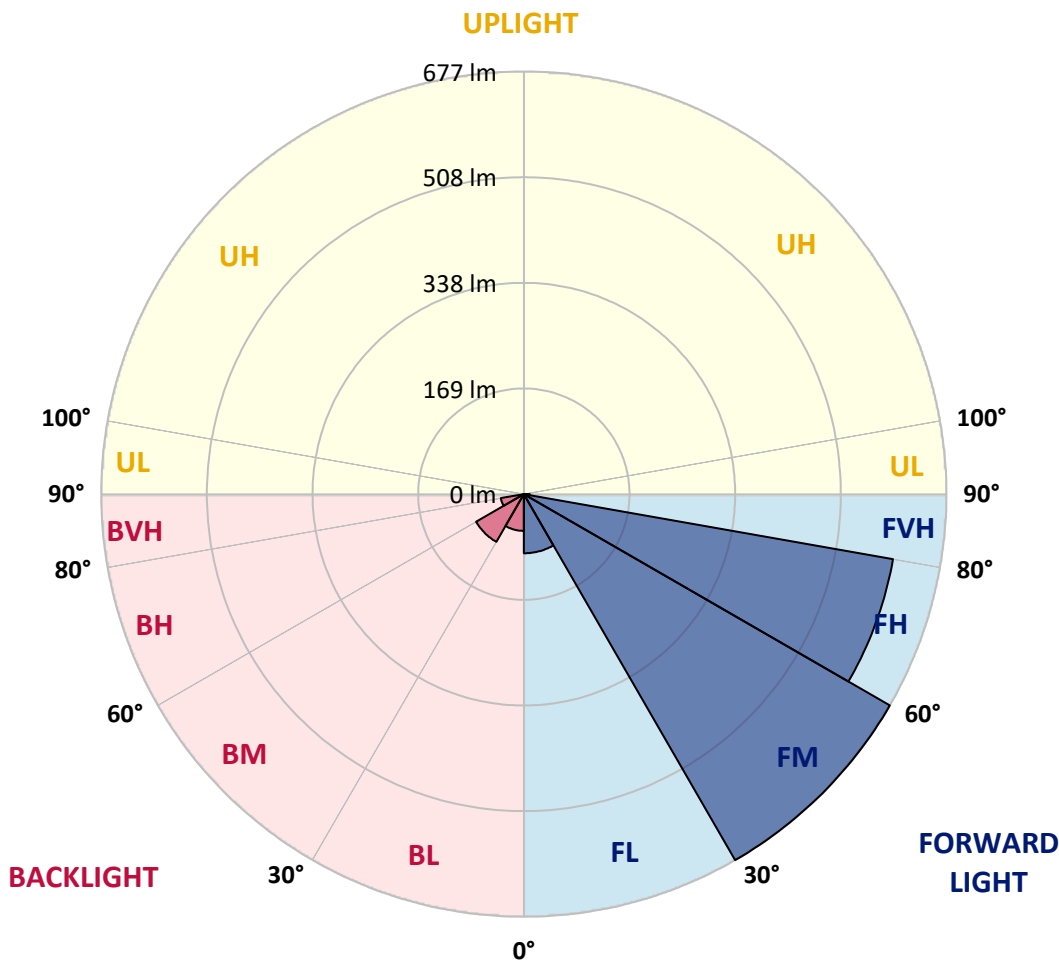
CATALOG NUMBER: CCP-SA-1A-830-U-T3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	94.7	6.0			
FM (30°-60°)	676.8	43.2			
FH (60°-80°)	600.4	38.3			G0/660
FVH (80°-90°)	9.5	0.6			G0/10
BL (0°-30°)	58.8	3.8	B0/110		
BM (30°-60°)	88.2	5.6	B0/220		
BH (60°-80°)	37.3	2.4	B0/110		G0/110
BVH (80°-90°)	0.2	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 III Medium





REPORT NUMBER: P673306  
 CATALOG NUMBER: CCP-SA-1A-830-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	193.2	193.2	193.2	193.2	193.2	193.2	193.2	193.2	193.2	193.2	193.2
2.5°	190.4	189.2	190.4	192.0	190.4	191.6	191.2	192.4	190.8	190.8	192.0
5°	178.0	180.0	180.8	182.8	184.8	188.4	190.8	190.8	193.2	194.4	196.0
7.5°	173.6	170.4	173.6	175.2	177.2	183.2	186.8	188.4	191.6	196.0	198.4
10°	167.2	169.6	169.6	174.8	177.6	181.2	187.6	188.8	196.0	200.4	202.8
12.5°	166.8	166.8	168.8	172.4	178.0	184.8	192.8	190.4	198.0	206.0	210.0
15°	168.0	170.8	170.8	175.6	180.0	189.6	196.4	196.8	207.6	215.6	219.2
17.5°	173.2	172.0	173.6	176.4	183.2	192.4	203.6	204.8	217.2	228.0	233.2
20°	184.0	186.0	183.6	182.0	184.8	196.8	211.2	213.6	227.6	238.0	243.2
22.5°	224.4	222.8	213.2	202.0	197.2	202.8	218.4	224.0	240.4	252.8	257.2
25°	270.0	267.2	256.0	239.2	217.2	214.8	232.8	232.8	256.4	270.0	268.8
27.5°	313.3	312.5	299.3	281.7	250.4	233.2	244.4	248.8	274.4	285.7	280.5
30°	357.3	358.1	346.1	324.9	292.1	262.8	260.8	264.4	288.1	305.7	294.9
32.5°	408.5	401.3	392.9	363.7	333.7	300.9	282.1	280.5	303.3	319.3	304.9
35°	454.1	449.7	440.5	414.1	379.7	340.5	314.1	310.1	322.5	343.7	328.1
37.5°	494.1	489.7	477.7	460.1	433.3	389.7	352.5	346.5	351.7	374.1	355.3
40°	528.5	529.7	526.5	509.3	484.5	444.9	402.1	392.5	388.1	408.1	386.9
42.5°	553.3	564.9	565.7	544.5	524.5	502.9	454.9	447.3	436.9	453.7	438.9
45°	605.3	598.9	602.9	595.3	573.3	570.1	515.7	511.3	496.9	502.5	486.9
47.5°	646.1	644.9	652.5	640.1	634.1	634.5	584.9	577.3	556.9	567.3	549.7
50°	669.7	663.3	690.9	700.5	699.3	704.1	654.9	648.5	628.9	644.1	606.5
52.5°	675.3	686.9	712.9	747.7	762.5	772.5	731.3	728.9	707.7	717.3	665.3
55°	689.3	700.5	715.7	772.9	827.7	830.1	806.5	808.9	790.1	787.7	721.3
57.5°	688.9	686.5	728.5	794.9	871.0	905.4	892.6	881.0	860.6	837.0	757.3
60°	663.7	662.5	706.1	797.7	894.6	973.4	978.6	965.0	913.8	879.0	799.7
62.5°	613.7	618.5	662.5	773.7	917.0	997.8	1017.0	1007.8	944.2	907.0	849.8
65°	556.5	546.5	597.7	713.7	866.6	990.6	1032.2	1029.0	980.2	937.4	895.8
67.5°	446.5	450.9	490.1	614.1	780.5	964.2	1067.8	1072.6	1009.0	964.2	909.8
70°	282.9	290.9	331.7	443.7	637.3	881.0	1099.8	1113.8	1031.8	961.8	869.0
72.5°	82.4	85.6	141.2	221.2	406.1	706.5	1048.6	1055.8	987.4	873.0	672.1
75°	27.2	28.8	41.6	72.0	159.2	365.3	774.5	808.5	785.7	632.9	384.5
77.5°	18.0	18.8	22.8	34.4	60.4	114.4	415.3	451.7	442.9	296.5	124.0
80°	13.2	13.6	16.8	23.2	36.8	41.2	153.2	177.2	171.2	68.0	24.8
82.5°	8.4	8.4	12.4	16.4	23.2	20.4	44.4	49.2	48.0	26.0	9.6
85°	5.6	6.0	9.2	12.8	12.8	9.6	12.8	14.8	16.0	14.0	4.4
87.5°	1.6	2.0	5.2	8.8	5.2	4.8	4.4	4.8	5.6	7.6	2.4
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: P673306  
 CATALOG NUMBER: CCP-SA-1A-830-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	193.2	193.2	193.2	193.2	193.2	193.2	193.2	193.2	193.2	193.2	193.2
2.5°	193.2	194.8	194.4	195.2	194.0	192.8	194.0	194.0	194.0	192.8	192.0
5°	194.8	194.0	194.8	193.2	194.8	193.2	192.4	190.0	189.6	189.6	191.2
7.5°	197.2	198.0	194.4	194.4	190.8	191.6	189.6	190.0	189.2	188.0	187.2
10°	200.8	204.0	200.4	199.2	195.2	192.0	187.2	184.8	184.8	183.2	184.8
12.5°	210.8	209.6	207.6	203.6	198.8	192.4	180.8	169.2	159.6	152.4	156.0
15°	218.8	218.4	215.6	208.0	201.6	182.0	152.8	122.8	106.8	99.6	98.4
17.5°	231.2	230.0	225.2	215.2	194.0	150.8	104.8	79.6	64.0	60.4	59.2
20°	242.8	242.4	232.0	219.2	174.8	110.0	68.4	52.4	48.0	48.4	47.6
22.5°	255.2	253.2	240.8	214.4	139.2	73.2	48.8	46.8	45.2	44.8	45.6
25°	269.2	262.0	249.6	203.6	102.4	50.4	46.0	44.4	42.8	42.4	42.4
27.5°	274.8	270.0	253.6	177.6	64.8	44.0	43.2	41.2	39.2	38.0	37.6
30°	287.7	279.7	257.6	139.6	46.0	40.4	39.2	36.8	34.0	32.0	32.0
32.5°	300.5	290.9	258.0	97.6	38.4	36.4	34.4	31.2	27.6	25.6	26.0
35°	316.5	303.3	253.6	63.2	34.4	32.0	28.0	24.4	21.2	19.6	19.6
37.5°	343.7	331.3	235.6	41.6	31.2	27.2	23.2	19.2	16.4	15.2	15.2
40°	378.1	362.1	210.8	32.8	27.6	23.2	18.4	14.8	13.2	12.0	12.0
42.5°	419.3	399.3	174.0	29.2	24.4	19.2	14.4	11.6	10.0	10.0	9.6
45°	460.5	427.7	136.4	26.8	21.6	16.0	11.2	9.2	8.4	8.0	8.0
47.5°	519.3	462.1	97.6	24.4	18.8	12.4	9.2	7.6	6.8	6.4	6.8
50°	575.7	494.5	69.2	22.0	15.6	10.0	7.6	6.8	6.0	5.6	5.6
52.5°	625.3	516.9	48.4	19.2	13.2	8.4	6.8	6.0	5.6	5.2	5.2
55°	652.5	509.3	33.2	16.4	10.8	7.2	6.0	5.2	4.8	4.4	4.4
57.5°	680.5	488.1	25.2	13.6	8.8	6.8	5.6	4.8	4.4	4.0	4.0
60°	704.1	472.5	19.6	10.8	7.2	5.6	4.8	4.0	3.6	3.2	2.8
62.5°	705.3	441.3	14.4	8.0	5.6	4.8	4.0	3.2	2.0	1.6	1.2
65°	710.1	408.5	10.4	6.0	4.0	3.6	2.8	1.6	0.8	0.0	0.0
67.5°	693.3	369.7	8.4	4.4	2.8	2.0	1.2	0.4	0.0	0.0	0.0
70°	624.9	312.1	6.4	3.2	2.0	1.2	0.4	0.0	0.0	0.0	0.0
72.5°	447.3	202.8	4.4	2.4	0.8	0.4	0.0	0.0	0.0	0.0	0.0
75°	238.4	86.4	3.2	1.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	74.8	22.0	2.0	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	16.4	6.0	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.6	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.0	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.4	0.4	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)