

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: P672298

Luminaire Tested: **CCP-SA-1A-830-U-T3R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672298  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1A-830-U-T3R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ T3R distribution lens  
Light Source: (16) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

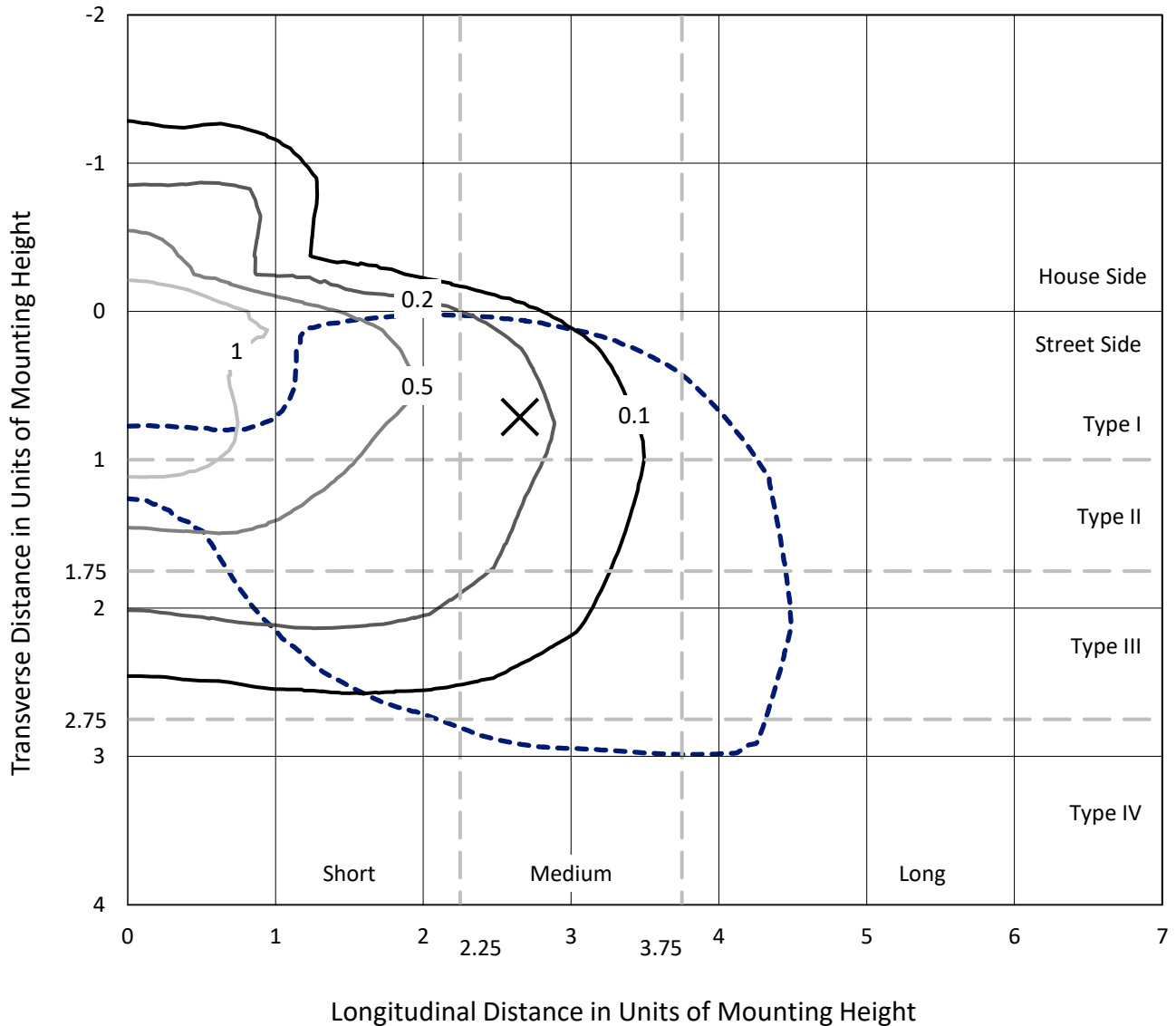
Lumens per Lamp: N/A  
Luminaire Lumens: 2209.5 lumens  
Efficiency: N/A  
Efficacy: 122.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G1

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

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### Iso-Footcandle Lines of Horizontal Illumination

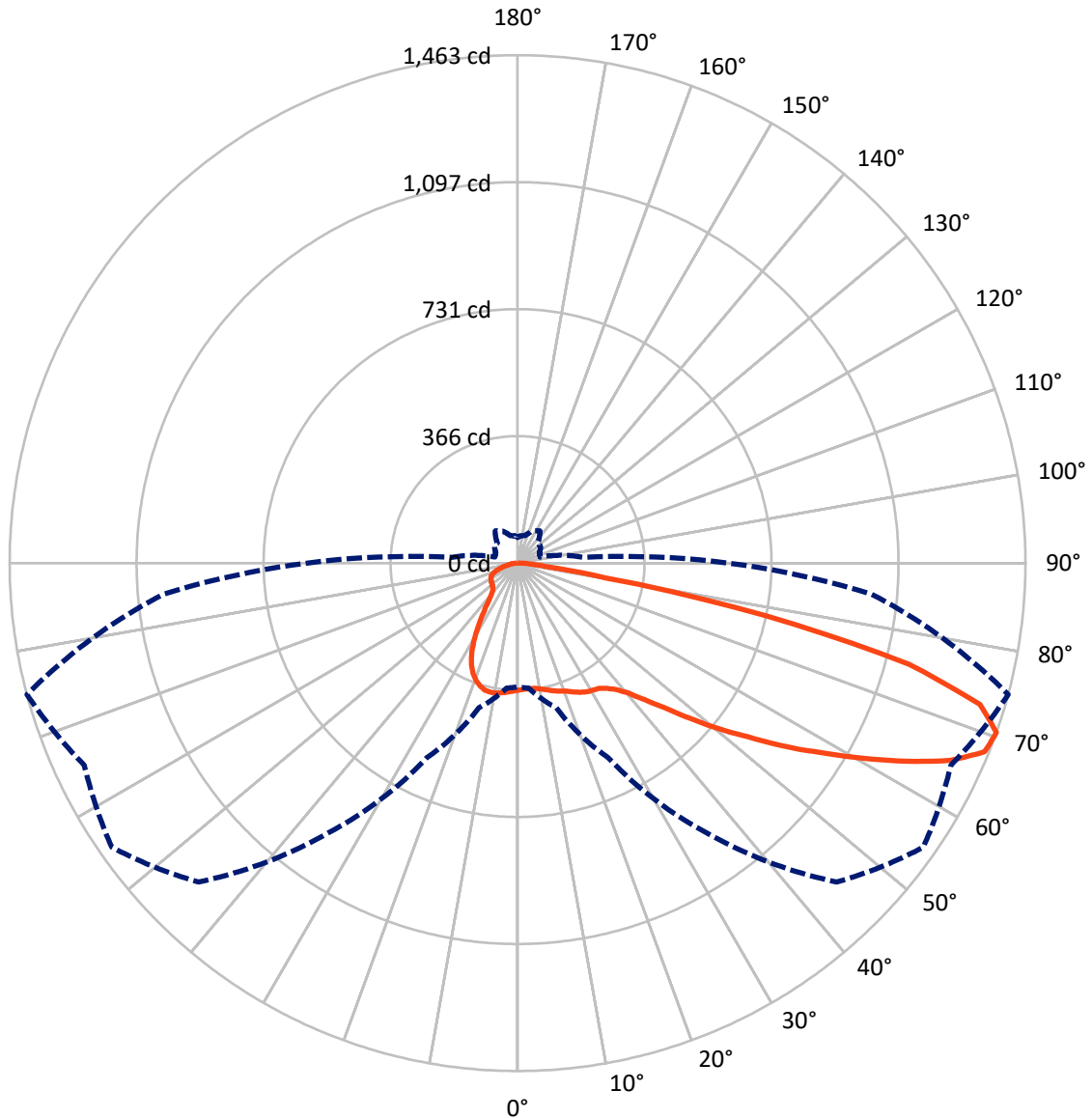
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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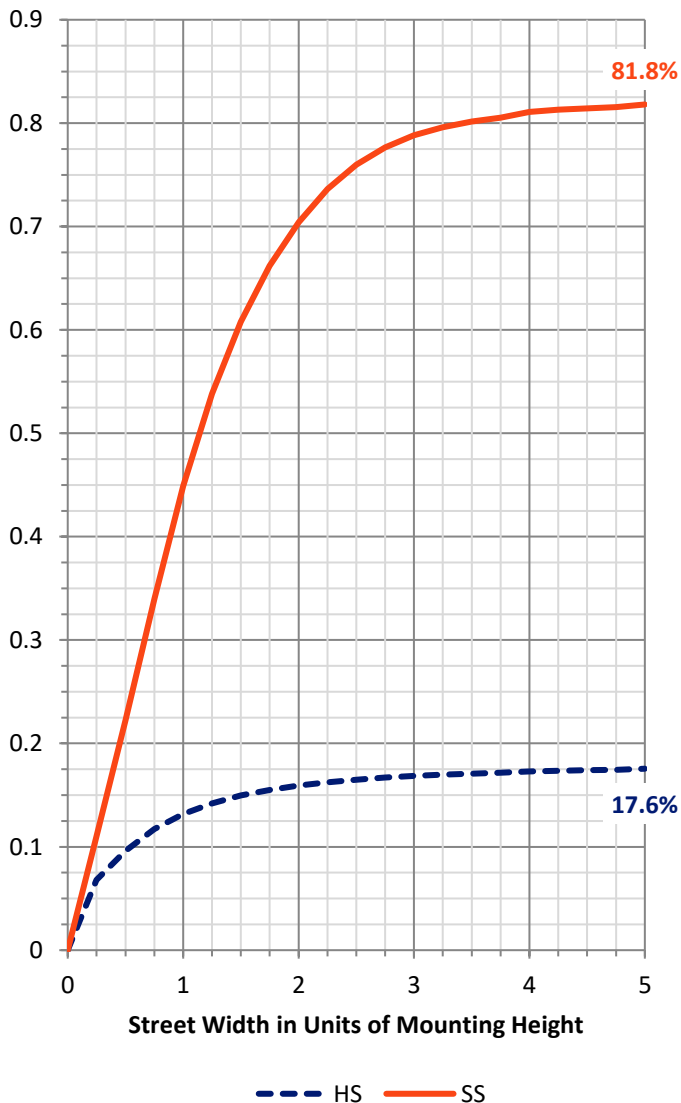
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	393.1	0.0	393.1
	% Fixture	17.8	0.0	17.8
<b>Street Side</b>	Lumens	1816.4	0.0	1816.4
	% Fixture	82.2	0.0	82.2
<b>Total</b>	Lumens	2209.5	0.0	2209.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.9	1.5
10°-20°	87.7	4.0
20°-30°	147.8	6.7
30°-40°	224.5	10.2
40°-50°	321.7	14.6
50°-60°	426.5	19.3
60°-70°	533.7	24.2
70°-80°	389.7	17.6
80°-90°	44.9	2.0
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°	2209.5	100.0
0°-180°	2209.5	100.0



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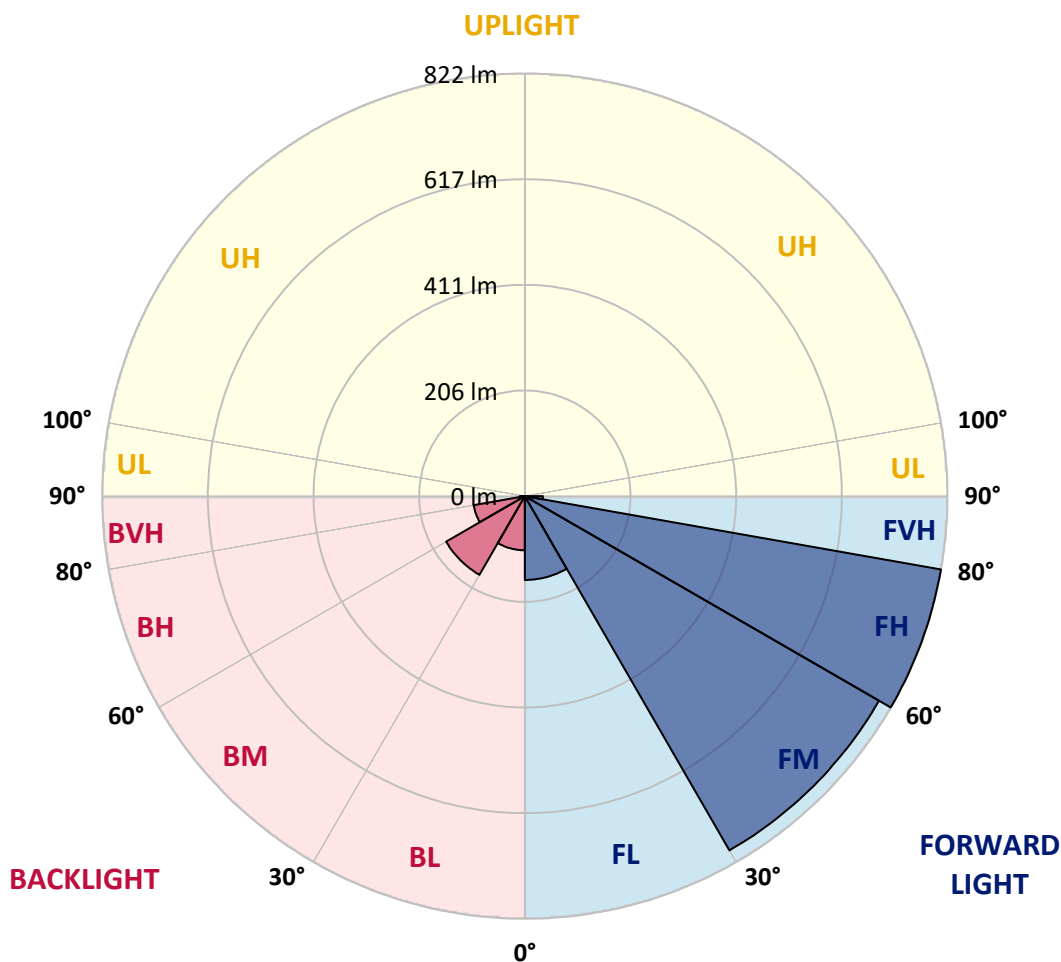
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	163.1	7.4			
FM (30°-60°)	795.9	36.0			
FH (60°-80°)	822.3	37.2			G1/1800
FVH (80°-90°)	35.1	1.6			G1/100
BL (0°-30°)	105.4	4.8	B0/110		
BM (30°-60°)	176.7	8.0	B0/220		
BH (60°-80°)	101.1	4.6	B0/110		G0/110
BVH (80°-90°)	9.9	0.4			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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	366.0	366.0	366.0	366.0	366.0	366.0	366.0	366.0	366.0	366.0	366.0
2.5°	346.0	347.9	349.6	351.4	352.8	356.6	357.4	361.5	362.7	363.6	364.9
5°	326.6	328.0	329.7	332.6	335.6	342.5	347.2	356.3	361.4	363.0	367.4
7.5°	316.1	316.5	318.9	321.3	324.8	331.5	338.0	352.2	362.3	364.1	373.6
10°	308.4	309.1	311.3	314.6	318.1	324.3	332.4	349.3	365.8	368.5	382.0
12.5°	305.7	305.4	308.0	310.2	315.1	322.9	331.3	349.5	370.6	374.4	394.3
15°	316.5	314.5	316.1	315.3	316.9	324.5	334.5	353.0	376.5	381.3	407.0
17.5°	340.4	338.6	337.5	330.7	326.2	330.5	340.1	357.9	382.7	387.8	418.5
20°	376.0	371.1	366.9	355.5	343.1	341.7	348.3	362.8	388.6	393.5	430.5
22.5°	416.5	412.6	405.9	385.9	366.6	357.1	358.8	371.9	397.2	402.6	444.4
25°	467.7	467.6	453.9	426.9	397.8	378.5	374.9	386.3	406.8	412.1	455.8
27.5°	526.1	522.1	505.9	471.1	434.5	405.1	396.5	401.1	414.6	420.0	465.0
30°	576.0	576.5	560.0	522.0	473.6	431.0	414.8	411.8	419.7	425.1	473.6
32.5°	629.4	626.7	611.6	572.5	515.9	458.8	426.6	419.4	425.0	430.1	485.5
35°	679.7	676.7	663.6	621.5	562.5	489.5	442.5	431.3	437.4	442.9	500.2
37.5°	727.5	728.0	713.2	673.0	607.6	525.8	466.0	449.3	455.8	462.0	522.4
40°	769.3	767.0	755.5	719.3	654.6	562.7	492.5	473.8	486.5	492.2	550.6
42.5°	782.7	782.5	787.0	764.7	703.8	606.5	525.6	511.9	529.9	538.5	585.1
45°	771.1	774.6	800.3	799.7	753.1	656.9	570.8	558.4	584.3	594.0	627.2
47.5°	759.6	764.9	799.9	819.7	797.3	712.4	626.3	617.0	654.2	668.2	670.9
50°	742.9	747.9	789.5	822.6	824.3	768.5	698.1	686.5	734.4	748.7	718.5
52.5°	724.3	728.2	771.2	820.5	837.2	812.4	768.5	765.2	820.2	831.8	766.8
55°	621.6	637.9	744.4	816.1	846.1	846.0	837.1	848.0	913.9	931.2	820.7
57.5°	562.7	571.2	668.7	813.5	862.8	877.0	907.8	931.3	1013.9	1029.4	880.2
60°	543.4	551.1	630.7	810.5	896.1	925.5	977.0	1015.1	1121.3	1140.4	946.6
62.5°	525.9	535.2	615.3	786.5	936.3	1002.3	1059.5	1105.8	1234.7	1257.3	1012.7
65°	490.3	496.8	587.0	766.3	974.4	1111.8	1178.6	1205.6	1344.6	1370.0	1056.6
67.5°	428.8	435.0	523.2	719.9	999.2	1225.8	1308.8	1308.9	1429.5	1450.3	1065.9
70°	356.4	361.2	431.3	618.8	947.6	1298.9	1426.3	1376.5	1453.5	1462.5	1022.0
72.5°	254.9	259.0	315.9	457.4	777.0	1239.6	1453.0	1373.7	1395.3	1392.4	897.2
75°	157.1	165.0	193.5	279.2	482.8	975.4	1307.7	1244.7	1171.6	1163.6	675.5
77.5°	102.4	106.5	130.8	164.7	213.0	560.0	993.2	933.3	739.8	730.5	363.1
80°	61.5	68.4	85.7	103.5	96.5	214.2	567.1	463.6	261.4	258.5	111.6
82.5°	33.1	39.3	60.4	64.1	54.2	75.7	205.4	150.7	83.6	82.7	41.8
85°	26.2	29.3	43.4	40.5	30.7	38.3	80.1	62.8	42.9	42.0	15.7
87.5°	15.9	20.0	32.9	27.3	15.3	13.8	36.7	29.7	20.2	18.8	6.2
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°	366.0	366.0	366.0	366.0	366.0	366.0	366.0	366.0	366.0	366.0	366.0
2.5°	367.3	368.1	368.9	367.3	367.9	367.1	367.1	367.1	365.0	364.4	366.3
5°	370.8	371.9	372.5	367.6	364.6	360.1	356.4	350.9	347.7	345.6	345.6
7.5°	377.9	379.2	376.3	365.4	354.7	342.8	330.5	320.4	313.0	309.9	310.8
10°	388.4	388.9	379.3	359.2	336.4	314.3	297.0	283.5	274.4	269.8	269.2
12.5°	400.6	398.6	380.0	345.5	311.8	282.0	260.9	243.4	231.8	227.4	225.1
15°	412.7	407.8	377.6	329.1	283.8	248.0	221.0	204.5	197.3	195.2	194.4
17.5°	423.5	414.3	369.6	305.6	251.4	208.3	188.4	182.5	183.3	185.2	186.0
20°	433.4	419.2	358.2	277.6	210.8	177.3	172.3	177.7	182.2	185.1	185.5
22.5°	444.2	424.0	342.3	243.6	177.6	163.0	168.8	175.0	179.5	182.4	182.8
25°	452.5	423.9	319.9	203.2	156.6	159.1	166.1	171.7	175.0	177.1	177.0
27.5°	457.7	420.0	290.5	170.0	148.3	156.4	163.1	166.8	168.7	170.3	170.1
30°	459.3	412.7	253.4	145.5	144.5	153.9	159.0	161.2	162.6	164.2	164.2
32.5°	462.5	401.4	212.6	131.8	141.7	151.4	154.4	156.1	155.0	151.0	150.2
35°	466.0	388.9	173.9	125.4	139.0	149.6	152.5	147.9	135.8	134.2	133.5
37.5°	472.8	377.3	141.2	121.0	138.3	150.6	152.9	134.5	124.3	119.4	118.6
40°	484.4	365.7	119.2	117.8	139.1	154.7	146.6	128.1	111.3	101.9	100.3
42.5°	499.7	351.5	106.8	116.2	141.3	161.4	144.4	119.1	100.6	94.3	93.3
45°	517.3	332.8	101.0	115.9	144.0	164.7	145.0	111.8	95.9	90.9	90.6
47.5°	535.6	314.3	98.4	115.6	147.4	163.3	136.3	109.5	94.0	92.5	93.5
50°	555.3	293.3	96.3	114.8	150.1	163.3	131.5	109.1	94.6	97.8	101.0
52.5°	573.8	275.7	94.0	112.4	151.2	160.4	130.1	110.8	95.6	94.8	95.7
55°	596.2	266.6	92.7	109.1	149.1	151.7	128.3	115.6	96.3	89.8	89.8
57.5°	621.8	264.7	90.8	104.6	142.5	139.6	128.1	118.4	94.3	88.2	87.1
60°	652.6	268.8	88.4	99.0	134.3	130.2	127.0	118.4	90.9	85.5	86.0
62.5°	677.6	268.4	87.0	94.1	123.5	120.5	125.0	116.9	89.7	85.2	85.1
65°	683.5	258.2	82.8	87.8	110.2	108.7	122.7	112.9	87.9	83.5	82.2
67.5°	663.6	235.1	76.6	79.3	96.0	96.2	118.8	107.6	85.5	82.5	80.4
70°	607.2	190.1	67.4	69.2	80.8	82.8	112.9	101.4	81.6	78.4	73.5
72.5°	508.1	136.7	56.8	57.2	64.2	69.6	102.7	93.0	75.7	68.2	63.0
75°	376.2	90.8	46.3	45.6	48.2	56.6	87.8	83.6	68.0	56.6	53.9
77.5°	198.9	53.7	35.6	35.8	34.2	43.4	69.6	72.7	60.4	47.7	45.0
80°	68.0	32.3	25.6	26.7	24.2	31.0	51.7	60.4	51.7	39.7	35.1
82.5°	31.2	19.7	18.3	19.1	17.3	21.0	35.5	45.8	41.2	28.9	23.4
85°	15.7	11.8	11.8	12.9	11.4	10.8	19.6	30.4	30.2	19.9	17.2
87.5°	6.5	5.7	5.4	6.2	5.4	4.1	5.6	11.0	15.9	11.9	7.6
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)