

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: P670714

Luminaire Tested: **CCP-SA-1A-830-U-T2**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P670714  
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-T2  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ T2 distribution lens  
Light Source: (16) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

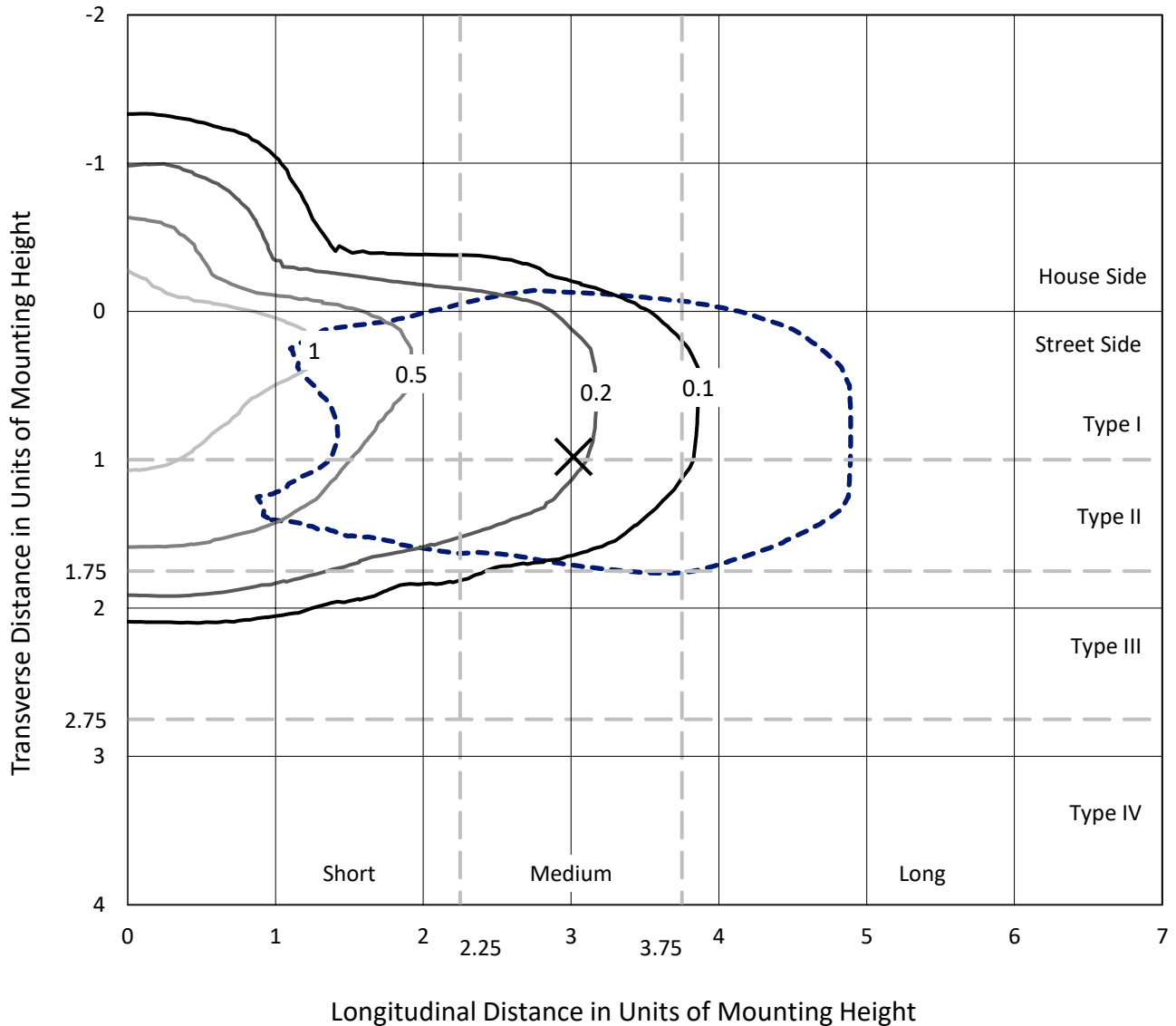
Lumens per Lamp: N/A  
Luminaire Lumens: 2168.4 lumens  
Efficiency: N/A  
Efficacy: 120.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1

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

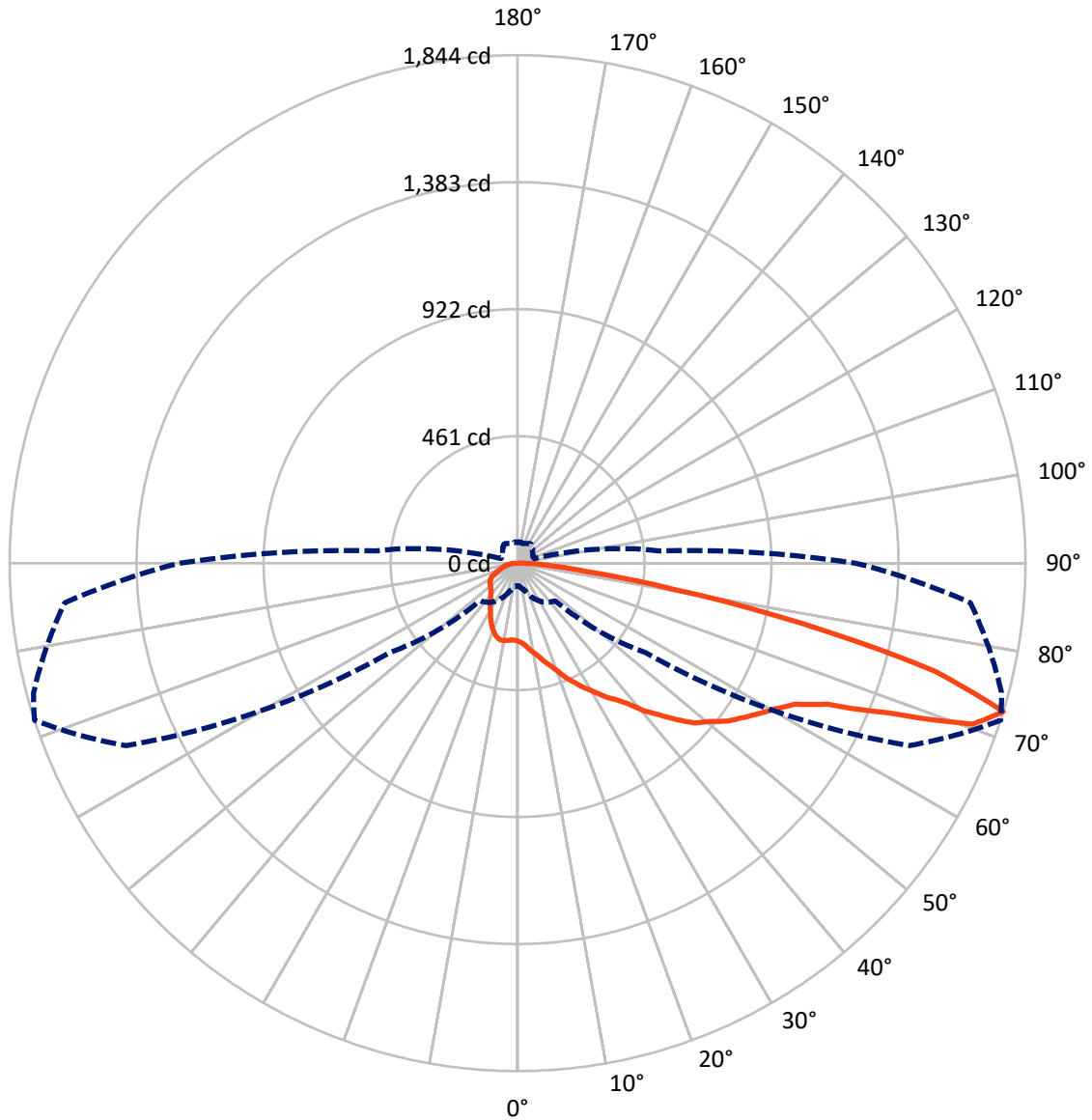
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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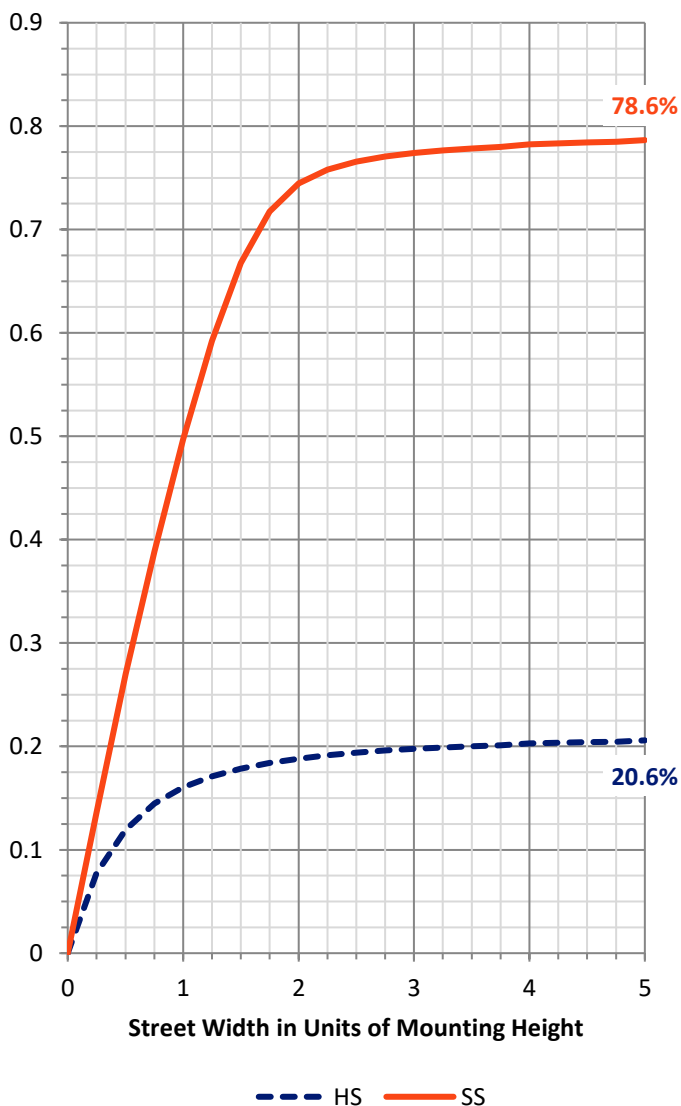
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	456.3	0.0	456.3
	% Fixture	21.0	0.0	21.0
<b>Street Side</b>	Lumens	1712.1	0.0	1712.1
	% Fixture	79.0	0.0	79.0
<b>Total</b>	Lumens	2168.4	0.0	2168.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.0	1.3
10°-20°	87.0	4.0
20°-30°	150.6	6.9
30°-40°	222.4	10.3
40°-50°	330.7	15.3
50°-60°	453.4	20.9
60°-70°	491.8	22.7
70°-80°	346.7	16.0
80°-90°	57.6	2.7
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°	2168.4	100.0
0°-180°	2168.4	100.0



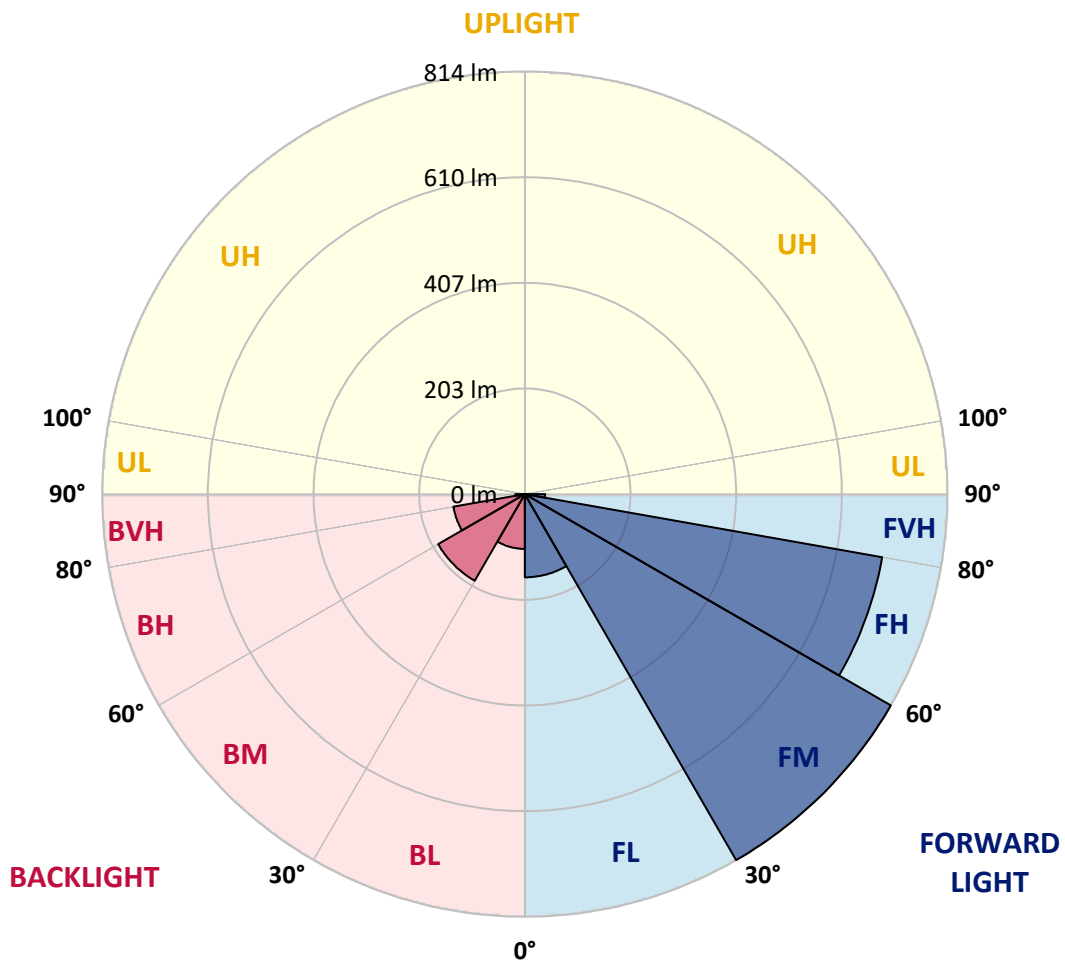
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	160.1	7.4			
FM (30°-60°)	813.9	37.5			
FH (60°-80°)	698.8	32.2			G1/1800
FVH (80°-90°)	39.3	1.8			G1/100
BL (0°-30°)	105.5	4.9	B0/110		
BM (30°-60°)	192.7	8.9	B0/220		
BH (60°-80°)	139.8	6.4	B1/500		G1/500
BVH (80°-90°)	18.3	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	283.3	283.3	283.3	283.3	283.3	283.3	283.3	283.3	283.3	283.3	283.3
2.5°	305.7	305.7	303.3	302.5	302.5	296.1	296.9	292.9	289.7	289.7	286.5
5°	321.7	320.1	320.1	320.1	316.1	313.7	312.9	305.7	300.1	300.9	291.3
7.5°	325.7	326.5	327.3	331.3	328.9	330.5	328.9	320.9	316.9	312.9	304.1
10°	328.1	329.7	329.7	335.3	335.3	339.3	341.7	338.5	331.3	327.3	312.9
12.5°	333.7	331.3	334.5	338.5	342.5	349.7	356.9	353.7	348.9	344.1	328.1
15°	333.7	334.5	336.9	343.3	349.7	356.9	369.7	374.5	372.1	363.3	346.5
17.5°	324.1	321.7	332.9	344.9	356.9	365.7	382.5	393.7	392.1	388.9	363.3
20°	324.9	327.3	331.3	341.7	360.9	376.9	397.7	416.1	420.1	418.5	385.7
22.5°	339.3	340.1	344.1	348.9	364.1	384.9	416.1	445.7	452.9	448.9	410.5
25°	353.7	360.1	360.1	363.3	368.9	390.5	428.1	469.7	480.1	480.9	436.1
27.5°	376.9	378.5	383.3	384.9	389.7	402.5	441.7	487.3	511.3	508.1	459.3
30°	404.1	404.9	408.1	406.5	407.3	423.3	454.5	507.3	540.1	540.9	484.1
32.5°	436.1	442.5	444.1	433.7	435.3	439.3	474.5	531.3	576.1	570.5	505.7
35°	483.3	485.7	480.9	476.1	464.1	461.7	495.3	555.3	607.3	613.7	537.7
37.5°	541.7	548.1	541.7	516.1	503.3	493.7	520.9	581.7	644.9	666.5	569.7
40°	596.1	595.3	588.9	565.7	543.3	536.1	557.7	618.5	703.4	724.2	616.1
42.5°	640.1	637.7	633.7	616.1	595.3	583.3	600.1	656.9	752.2	792.2	669.7
45°	678.5	675.3	676.1	656.1	636.1	642.5	642.5	700.9	809.8	859.4	731.4
47.5°	714.6	716.2	713.8	698.5	683.3	700.1	691.3	751.4	866.6	921.8	783.4
50°	756.2	759.4	751.4	741.8	728.2	745.0	733.8	798.6	903.4	978.6	845.8
52.5°	795.4	798.6	805.8	793.8	780.2	793.8	768.2	842.6	952.2	1033.8	893.8
55°	805.0	803.4	843.4	856.2	863.4	822.6	798.6	880.2	990.6	1069.0	948.2
57.5°	761.0	765.0	819.4	856.2	933.0	897.8	833.0	924.2	1030.6	1115.4	998.6
60°	651.3	653.7	721.8	809.0	921.0	968.2	925.8	981.0	1074.6	1154.6	1055.4
62.5°	435.3	453.7	538.5	675.3	836.2	987.4	1073.8	1077.0	1128.2	1204.3	1133.0
65°	229.6	238.5	304.9	415.3	633.7	921.0	1213.1	1267.5	1235.5	1295.5	1245.1
67.5°	150.4	153.6	189.6	252.1	365.7	672.1	1229.1	1597.9	1450.7	1469.1	1424.3
70°	112.0	113.6	140.0	186.4	226.4	359.3	1007.4	1752.4	1751.6	1702.8	1637.1
72.5°	82.4	84.8	103.2	142.4	174.4	193.6	566.5	1567.5	1843.6	1818.8	1650.0
75°	64.8	66.4	76.0	110.4	140.8	127.2	287.3	1161.0	1563.5	1682.8	1509.9
77.5°	52.8	54.4	60.0	80.0	112.8	98.4	137.6	749.0	1060.2	1211.5	1155.4
80°	44.0	44.0	48.0	56.8	87.2	74.4	81.6	420.9	571.3	630.5	524.1
82.5°	37.6	36.8	40.0	41.6	64.8	53.6	52.8	190.4	251.3	266.5	196.8
85°	24.0	24.8	37.6	36.0	42.4	36.8	29.6	90.4	118.4	120.8	73.6
87.5°	9.6	9.6	16.0	20.0	24.0	22.4	14.4	40.8	52.0	52.0	20.8
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°	283.3	283.3	283.3	283.3	283.3	283.3	283.3	283.3	283.3	283.3	283.3
2.5°	285.7	282.5	280.1	278.5	274.5	270.5	271.3	270.5	267.3	265.7	265.7
5°	288.9	285.7	281.7	275.3	271.3	266.5	268.1	264.9	261.7	264.1	260.1
7.5°	296.9	291.3	285.7	276.1	269.7	262.5	259.3	257.7	255.3	253.7	253.7
10°	308.1	300.1	289.7	275.3	264.9	253.7	252.1	248.9	246.5	246.5	245.7
12.5°	319.3	310.5	292.9	269.7	252.1	244.1	243.3	244.1	245.7	246.5	247.3
15°	333.7	319.3	292.1	259.3	241.7	238.5	242.5	245.7	248.9	252.1	251.3
17.5°	347.3	330.5	284.9	246.5	232.8	233.6	240.9	247.3	253.7	256.9	257.7
20°	365.7	340.9	274.5	231.2	224.0	231.2	240.9	248.9	256.1	260.1	260.9
22.5°	386.5	352.9	260.9	217.6	216.8	224.0	233.6	245.7	253.7	260.9	260.1
25°	404.9	360.9	243.3	206.4	208.0	212.8	224.0	236.9	244.9	252.9	250.5
27.5°	416.9	362.5	224.8	198.4	198.4	203.2	213.6	221.6	228.8	235.3	236.1
30°	430.5	359.3	204.0	188.0	188.0	194.4	198.4	203.2	207.2	208.8	210.4
32.5°	446.5	352.1	191.2	180.0	180.0	184.8	187.2	185.6	184.8	180.8	183.2
35°	461.7	341.7	176.8	169.6	172.8	175.2	174.4	169.6	164.8	157.6	155.2
37.5°	480.1	331.3	164.0	158.4	164.0	164.8	164.8	159.2	152.8	144.0	144.0
40°	508.1	323.3	153.6	151.2	156.8	156.0	152.0	148.0	150.4	145.6	145.6
42.5°	537.7	320.1	144.0	144.8	147.2	148.0	144.0	139.2	148.8	143.2	144.0
45°	574.5	322.5	137.6	136.8	142.4	141.6	139.2	135.2	138.4	124.0	120.0
47.5°	608.9	327.3	134.4	131.2	137.6	139.2	136.0	127.2	122.4	113.6	112.0
50°	640.1	337.7	131.2	124.8	131.2	134.4	128.8	119.2	113.6	108.0	108.0
52.5°	669.7	352.9	129.6	117.6	123.2	127.2	124.0	114.4	108.0	105.6	103.2
55°	700.1	366.5	127.2	112.8	114.4	122.4	121.6	108.8	102.4	102.4	101.6
57.5°	743.4	384.9	124.0	104.8	108.0	116.8	116.8	106.4	99.2	100.0	100.8
60°	787.4	406.5	120.8	96.8	99.2	111.2	112.8	103.2	96.8	97.6	96.8
62.5°	857.8	446.5	114.4	87.2	92.0	104.0	108.0	99.2	93.6	95.2	95.2
65°	964.2	515.3	100.8	79.2	84.8	97.6	103.2	95.2	88.8	93.6	92.0
67.5°	1135.4	609.7	84.8	72.8	80.0	91.2	97.6	90.4	84.8	92.0	89.6
70°	1289.1	656.1	72.8	67.2	72.8	84.0	91.2	85.6	80.0	87.2	84.0
72.5°	1226.7	514.5	63.2	60.8	66.4	76.0	84.8	79.2	73.6	77.6	74.4
75°	1058.6	409.7	55.2	54.4	59.2	68.8	77.6	73.6	68.0	69.6	68.0
77.5°	802.6	338.5	47.2	46.4	50.4	61.6	69.6	66.4	60.8	60.0	60.0
80°	358.5	166.4	39.2	39.2	41.6	52.8	59.2	57.6	52.0	51.2	50.4
82.5°	117.6	63.2	32.0	30.4	33.6	44.0	52.8	51.2	45.6	44.0	42.4
85°	47.2	30.4	23.2	23.2	26.4	36.8	47.2	44.0	36.8	32.8	32.8
87.5°	16.0	12.8	12.0	12.0	16.8	24.8	35.2	29.6	26.4	23.2	24.0
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)