

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: P676484

Luminaire Tested: **CCW-SA-1A-840-U-T3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676484  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1A-840-U-T3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/  
T3 distribution lens and House Side Shield  
Light Source: (16) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1680.4 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B0 - U0 - G1

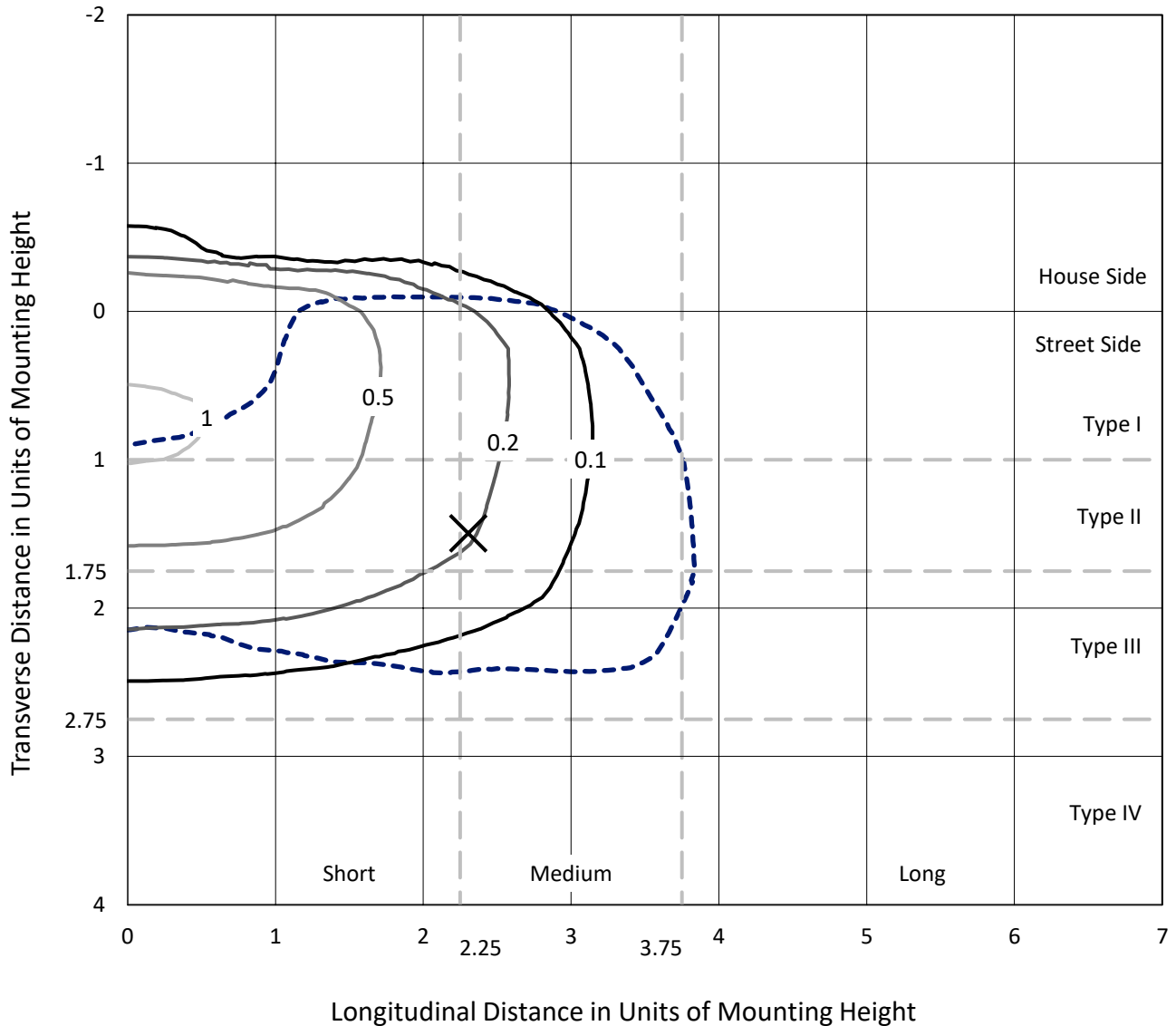
Input Watts (W): 18  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

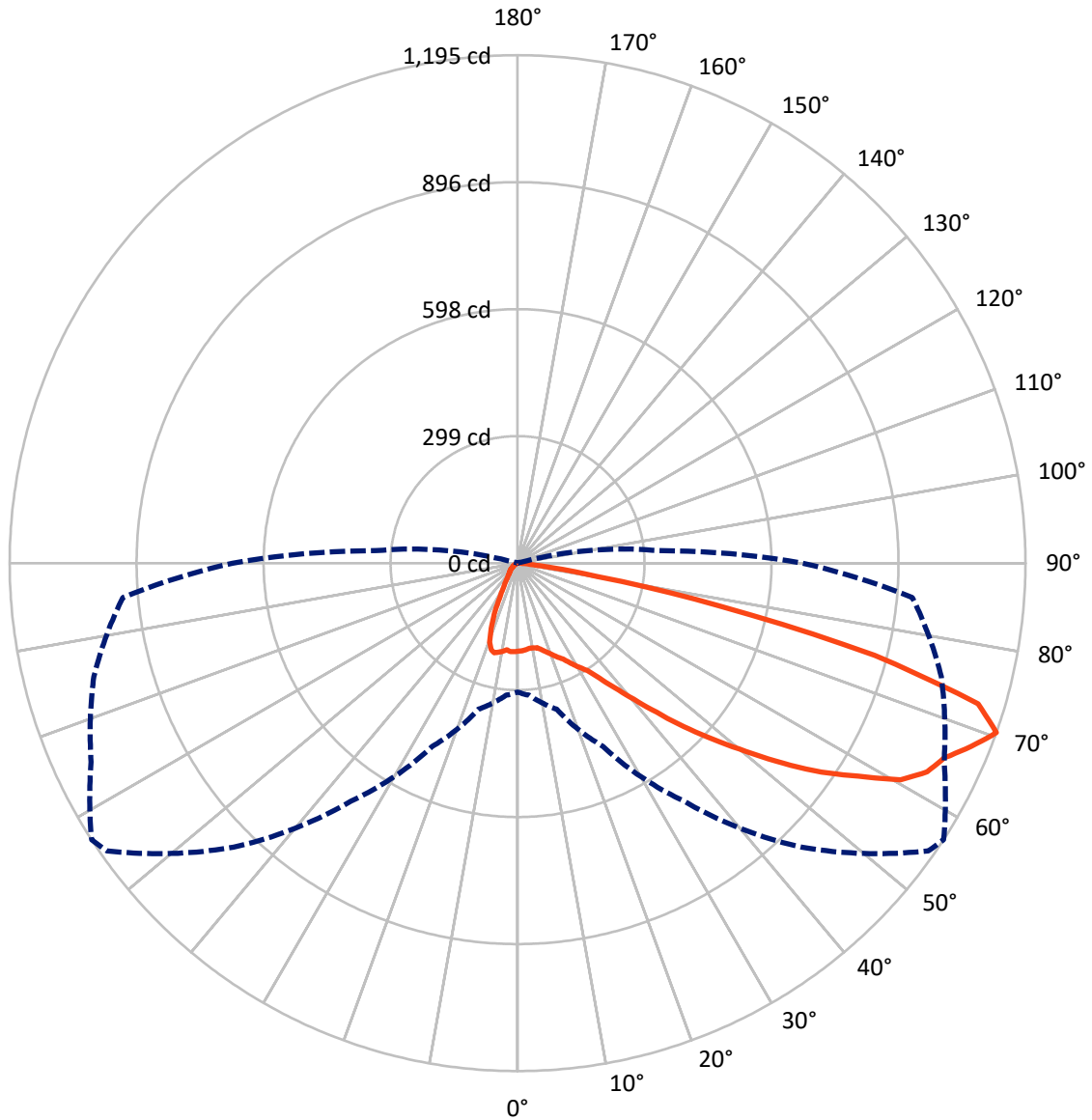
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



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

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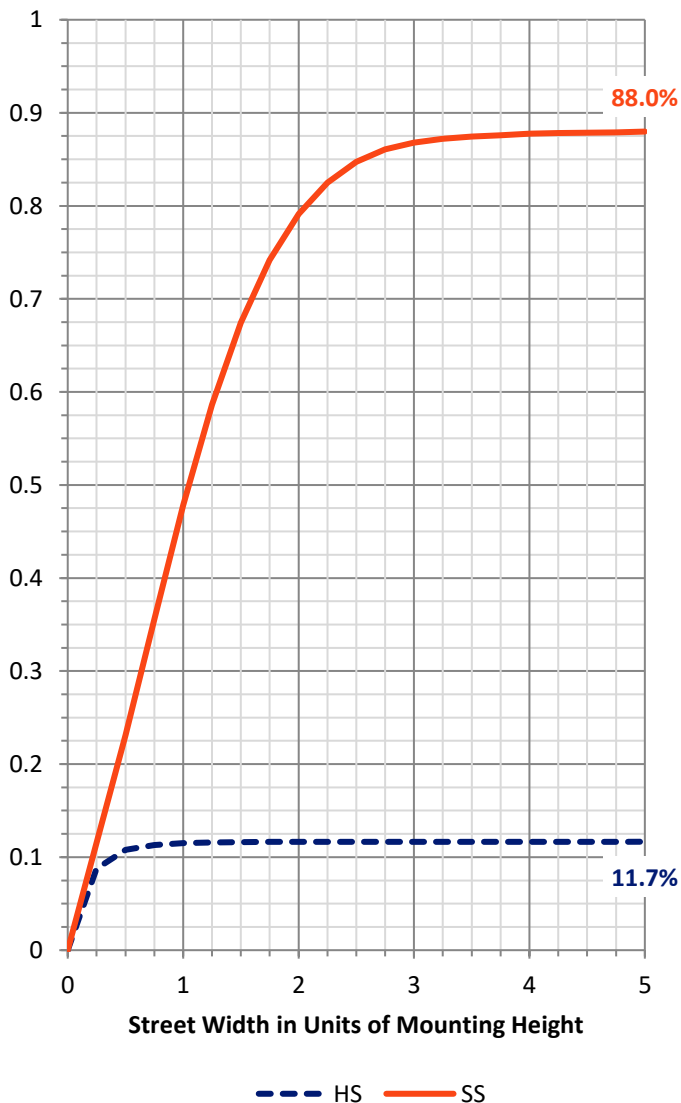
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	198.1	0.0	198.1
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	1482.3	0.0	1482.3
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	1680.4	0.0	1680.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.4	1.2
10°-20°	54.2	3.2
20°-30°	91.3	5.4
30°-40°	156.2	9.3
40°-50°	262.2	15.6
50°-60°	402.5	24.0
60°-70°	464.7	27.7
70°-80°	219.5	13.1
80°-90°	10.4	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°	1680.4	100.0
0°-180°	1680.4	100.0

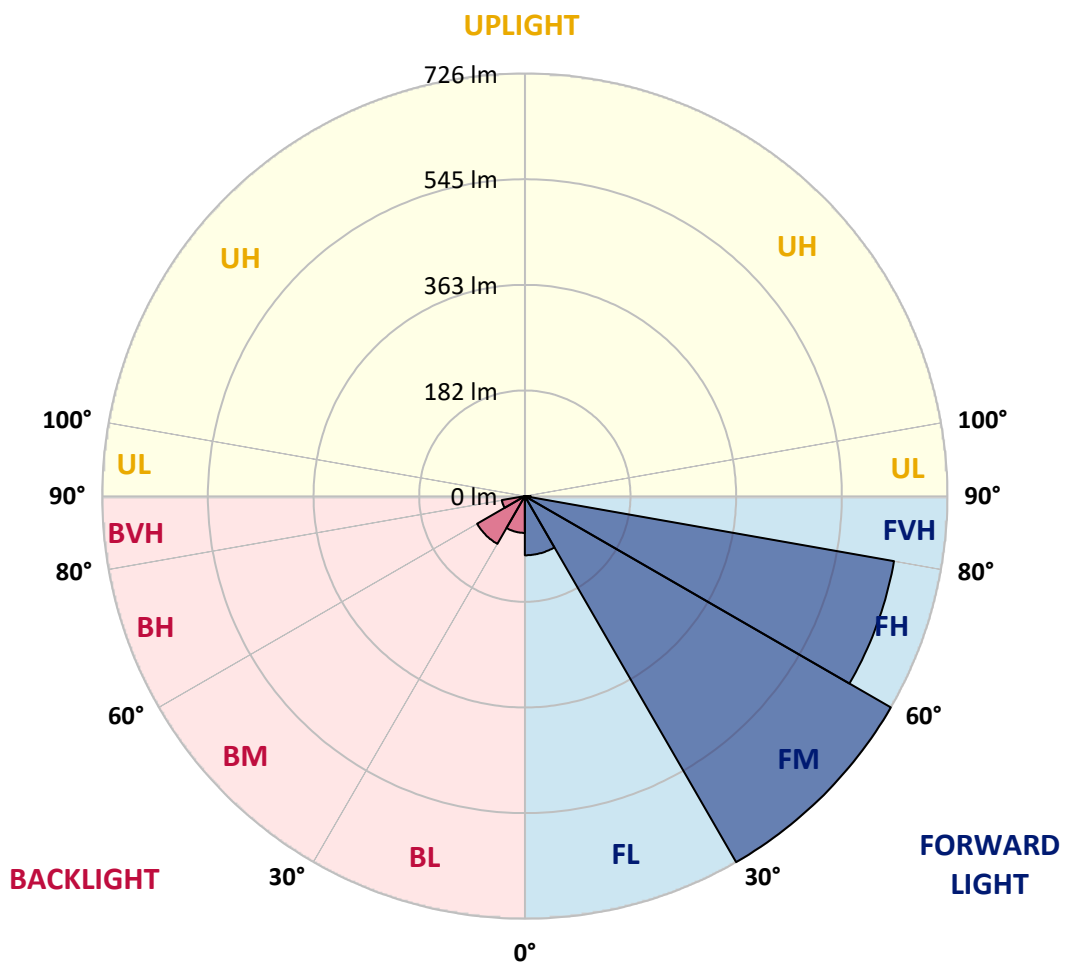


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	101.7	6.0			
FM (30°-60°)	726.2	43.2			
FH (60°-80°)	644.2	38.3			G0/660
FVH (80°-90°)	10.2	0.6			G1/100
BL (0°-30°)	63.1	3.8	B0/110		
BM (30°-60°)	94.7	5.6	B0/220		
BH (60°-80°)	40.1	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-G1**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	207.3	207.3	207.3	207.3	207.3	207.3	207.3	207.3	207.3	207.3	207.3
2.5°	204.3	203.0	204.3	206.1	204.3	205.6	205.2	206.5	204.8	204.8	206.1
5°	191.0	193.2	194.0	196.2	198.3	202.2	204.8	204.8	207.3	208.6	210.3
7.5°	186.3	182.9	186.3	188.0	190.2	196.6	200.5	202.2	205.6	210.3	212.9
10°	179.4	182.0	182.0	187.6	190.6	194.5	201.3	202.6	210.3	215.1	217.6
12.5°	179.0	179.0	181.2	185.0	191.0	198.3	206.9	204.3	212.5	221.1	225.4
15°	180.3	183.3	183.3	188.5	193.2	203.5	210.8	211.2	222.8	231.4	235.2
17.5°	185.9	184.6	186.3	189.3	196.6	206.5	218.5	219.8	233.1	244.7	250.3
20°	197.5	199.6	197.0	195.3	198.3	211.2	226.7	229.2	244.3	255.4	261.0
22.5°	240.8	239.1	228.8	216.8	211.6	217.6	234.4	240.4	258.0	271.3	276.0
25°	289.8	286.8	274.7	256.7	233.1	230.5	249.8	249.8	275.2	289.8	288.5
27.5°	336.1	335.3	321.1	302.2	268.7	250.3	262.3	267.0	294.5	306.5	300.9
30°	383.3	384.2	371.3	348.6	313.4	282.0	279.9	283.8	309.1	328.0	316.4
32.5°	438.3	430.6	421.5	390.2	358.0	322.8	302.6	300.9	325.4	342.6	327.1
35°	487.2	482.5	472.6	444.3	407.4	365.3	337.0	332.7	346.0	368.7	352.0
37.5°	530.2	525.4	512.6	493.7	464.9	418.1	378.2	371.8	377.3	401.4	381.2
40°	567.1	568.4	564.9	546.5	519.9	477.4	431.4	421.1	416.4	437.9	415.1
42.5°	593.7	606.1	607.0	584.2	562.8	539.6	488.1	479.9	468.8	486.8	470.9
45°	649.5	642.6	646.9	638.8	615.1	611.7	553.3	548.6	533.2	539.2	522.4
47.5°	693.3	692.0	700.1	686.8	680.4	680.8	627.6	619.4	597.5	608.7	589.8
50°	718.6	711.7	741.4	751.7	750.4	755.5	702.7	695.9	674.8	691.1	650.8
52.5°	724.6	737.1	765.0	802.3	818.2	828.9	784.7	782.1	759.4	769.7	713.9
55°	739.6	751.7	768.0	829.4	888.2	890.7	865.4	868.0	847.8	845.2	774.0
57.5°	739.2	736.6	781.7	853.0	934.5	971.4	957.7	945.3	923.4	898.0	812.6
60°	712.2	710.9	757.7	856.0	959.9	1044.4	1050.0	1035.4	980.5	943.1	858.1
62.5°	658.5	663.7	710.9	830.2	983.9	1070.6	1091.2	1081.3	1013.1	973.2	911.8
65°	597.1	586.4	641.3	765.8	929.8	1062.9	1107.5	1104.1	1051.7	1005.8	961.1
67.5°	479.1	483.8	525.9	658.9	837.5	1034.6	1145.7	1150.9	1082.6	1034.6	976.2
70°	303.5	312.1	355.9	476.1	683.8	945.3	1180.1	1195.1	1107.1	1032.0	932.4
72.5°	88.4	91.9	151.5	237.4	435.7	758.1	1125.1	1132.9	1059.4	936.7	721.2
75°	29.2	30.9	44.6	77.3	170.9	391.9	831.1	867.6	843.1	679.1	412.5
77.5°	19.3	20.2	24.5	36.9	64.8	122.8	445.6	484.7	475.2	318.1	133.1
80°	14.2	14.6	18.0	24.9	39.5	44.2	164.4	190.2	183.7	73.0	26.6
82.5°	9.0	9.0	13.3	17.6	24.9	21.9	47.6	52.8	51.5	27.9	10.3
85°	6.0	6.4	9.9	13.7	13.7	10.3	13.7	15.9	17.2	15.0	4.7
87.5°	1.7	2.1	5.6	9.4	5.6	5.2	4.7	5.2	6.0	8.2	2.6
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°	207.3	207.3	207.3	207.3	207.3	207.3	207.3	207.3	207.3	207.3	207.3
2.5°	207.3	209.1	208.6	209.5	208.2	206.9	208.2	208.2	208.2	206.9	206.1
5°	209.1	208.2	209.1	207.3	209.1	207.3	206.5	203.9	203.5	203.5	205.2
7.5°	211.6	212.5	208.6	208.6	204.8	205.6	203.5	203.9	203.0	201.8	200.9
10°	215.5	218.9	215.1	213.8	209.5	206.1	200.9	198.3	198.3	196.6	198.3
12.5°	226.2	224.9	222.8	218.5	213.3	206.5	194.0	181.6	171.3	163.6	167.4
15°	234.8	234.4	231.4	223.2	216.4	195.3	164.0	131.8	114.6	106.9	105.6
17.5°	248.1	246.8	241.7	230.9	208.2	161.8	112.5	85.4	68.7	64.8	63.5
20°	260.6	260.1	249.0	235.2	187.6	118.1	73.4	56.2	51.5	51.9	51.1
22.5°	273.9	271.7	258.4	230.1	149.4	78.6	52.4	50.2	48.5	48.1	48.9
25°	288.9	281.2	267.9	218.5	109.9	54.1	49.4	47.6	45.9	45.5	45.5
27.5°	294.9	289.8	272.2	190.6	69.5	47.2	46.4	44.2	42.1	40.8	40.4
30°	308.6	300.1	276.5	149.8	49.4	43.4	42.1	39.5	36.5	34.3	34.3
32.5°	322.4	312.1	276.9	104.7	41.2	39.1	36.9	33.5	29.6	27.5	27.9
35°	339.6	325.4	272.2	67.8	36.9	34.3	30.0	26.2	22.8	21.0	21.0
37.5°	368.7	355.4	252.8	44.6	33.5	29.2	24.9	20.6	17.6	16.3	16.3
40°	405.7	388.5	226.2	35.2	29.6	24.9	19.7	15.9	14.2	12.9	12.9
42.5°	449.9	428.4	186.7	31.3	26.2	20.6	15.5	12.4	10.7	10.7	10.3
45°	494.1	458.9	146.4	28.8	23.2	17.2	12.0	9.9	9.0	8.6	8.6
47.5°	557.2	495.8	104.7	26.2	20.2	13.3	9.9	8.2	7.3	6.9	7.3
50°	617.7	530.6	74.3	23.6	16.7	10.7	8.2	7.3	6.4	6.0	6.0
52.5°	671.0	554.6	51.9	20.6	14.2	9.0	7.3	6.4	6.0	5.6	5.6
55°	700.1	546.5	35.6	17.6	11.6	7.7	6.4	5.6	5.2	4.7	4.7
57.5°	730.2	523.7	27.0	14.6	9.4	7.3	6.0	5.2	4.7	4.3	4.3
60°	755.5	507.0	21.0	11.6	7.7	6.0	5.2	4.3	3.9	3.4	3.0
62.5°	756.8	473.5	15.5	8.6	6.0	5.2	4.3	3.4	2.1	1.7	1.3
65°	762.0	438.3	11.2	6.4	4.3	3.9	3.0	1.7	0.9	0.0	0.0
67.5°	743.9	396.6	9.0	4.7	3.0	2.1	1.3	0.4	0.0	0.0	0.0
70°	670.5	334.8	6.9	3.4	2.1	1.3	0.4	0.0	0.0	0.0	0.0
72.5°	479.9	217.6	4.7	2.6	0.9	0.4	0.0	0.0	0.0	0.0	0.0
75°	255.8	92.7	3.4	1.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	80.3	23.6	2.1	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	17.6	6.4	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.0	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.1	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	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)