

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: P672320

Luminaire Tested: **CCP-SA-1A-840-U-T3R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672320  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1A-840-U-T3R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ T3R distribution lens  
Light Source: (16) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2370.7 lumens  
Efficiency: N/A  
Efficacy: 131.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G1

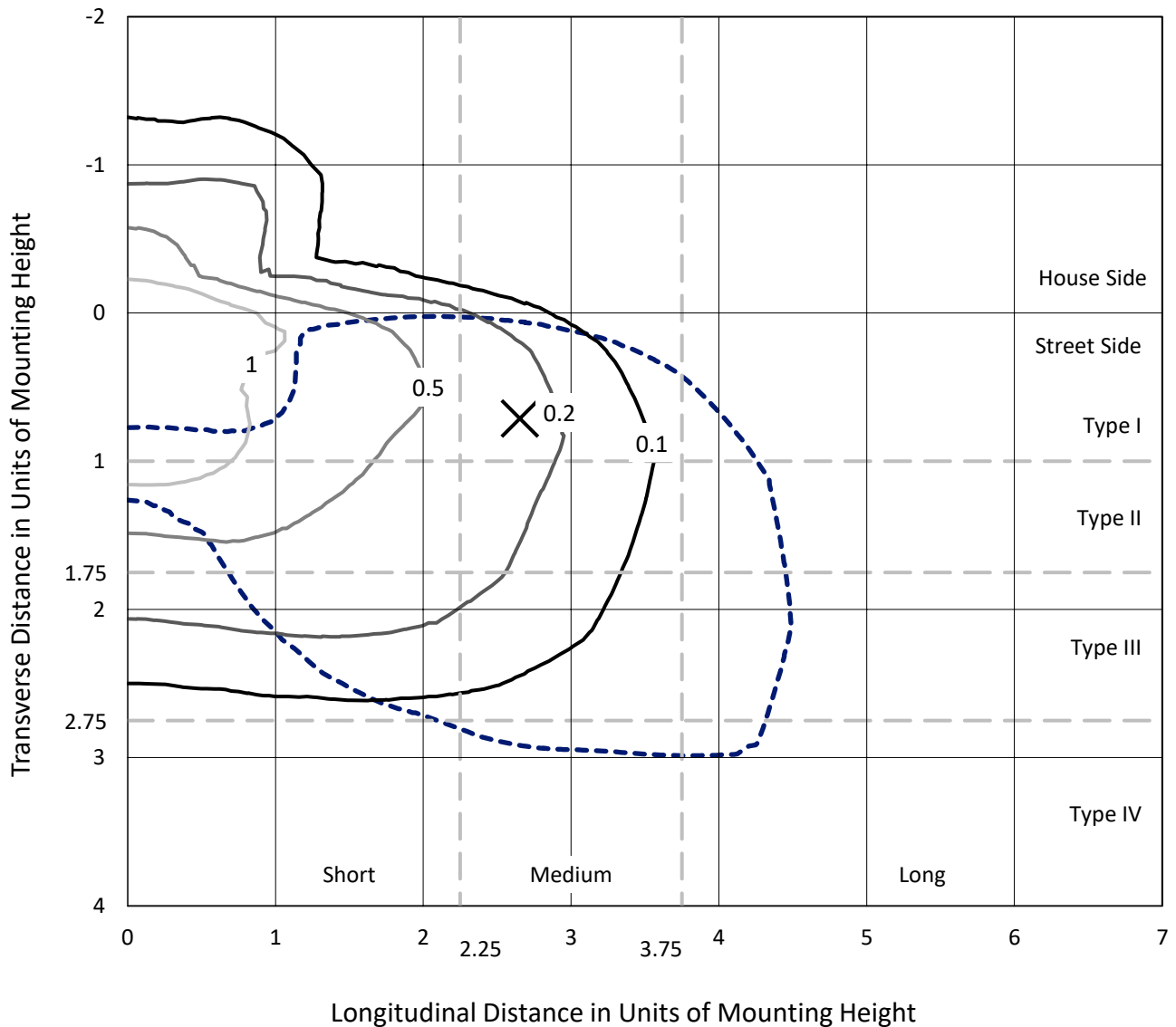
Input Watts (W): 18  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

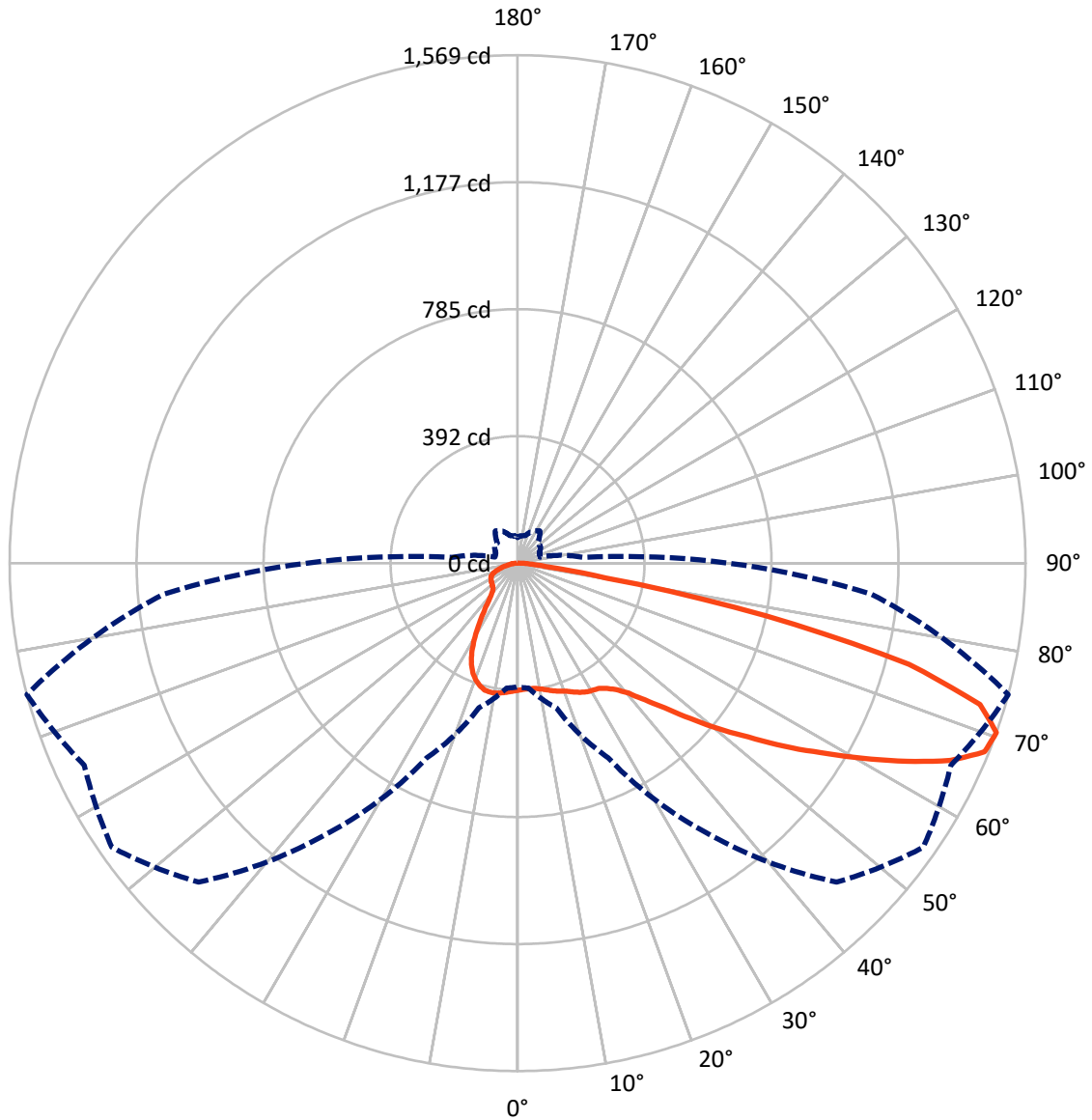
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.8 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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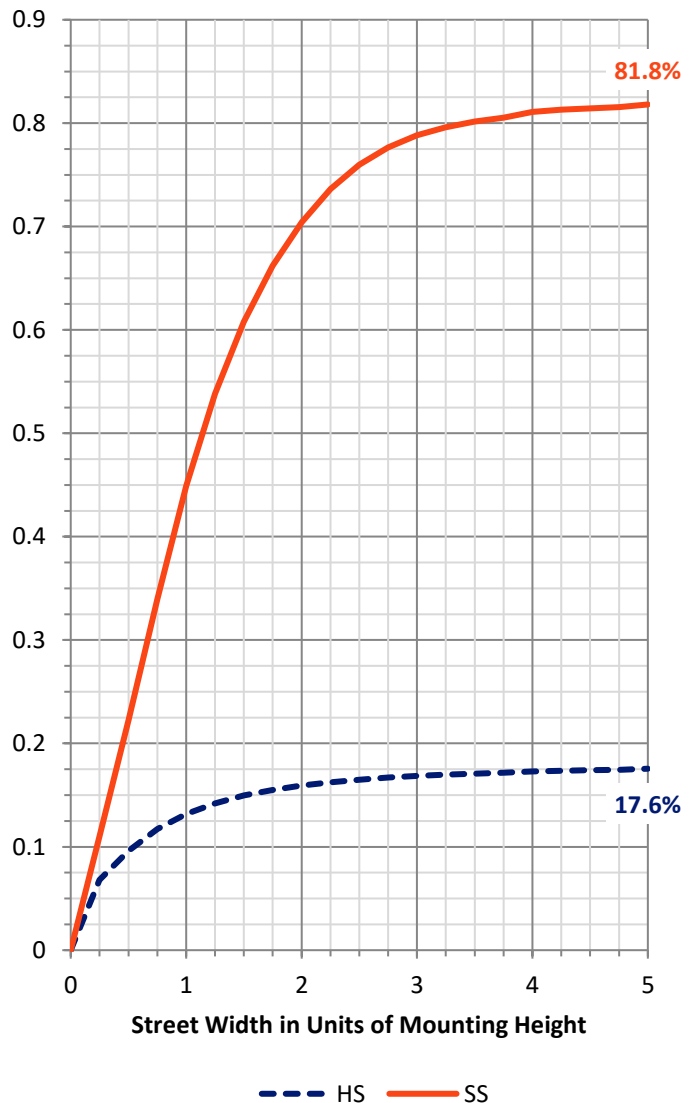
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	421.8	0.0	421.8
	% Fixture	17.8	0.0	17.8
<b>Street Side</b>	Lumens	1949.0	0.0	1949.0
	% Fixture	82.2	0.0	82.2
<b>Total</b>	Lumens	2370.7	0.0	2370.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.3	1.5
10°-20°	94.1	4.0
20°-30°	158.6	6.7
30°-40°	240.9	10.2
40°-50°	345.1	14.6
50°-60°	457.6	19.3
60°-70°	572.7	24.2
70°-80°	418.2	17.6
80°-90°	48.2	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°	2370.7	100.0
0°-180°	2370.7	100.0



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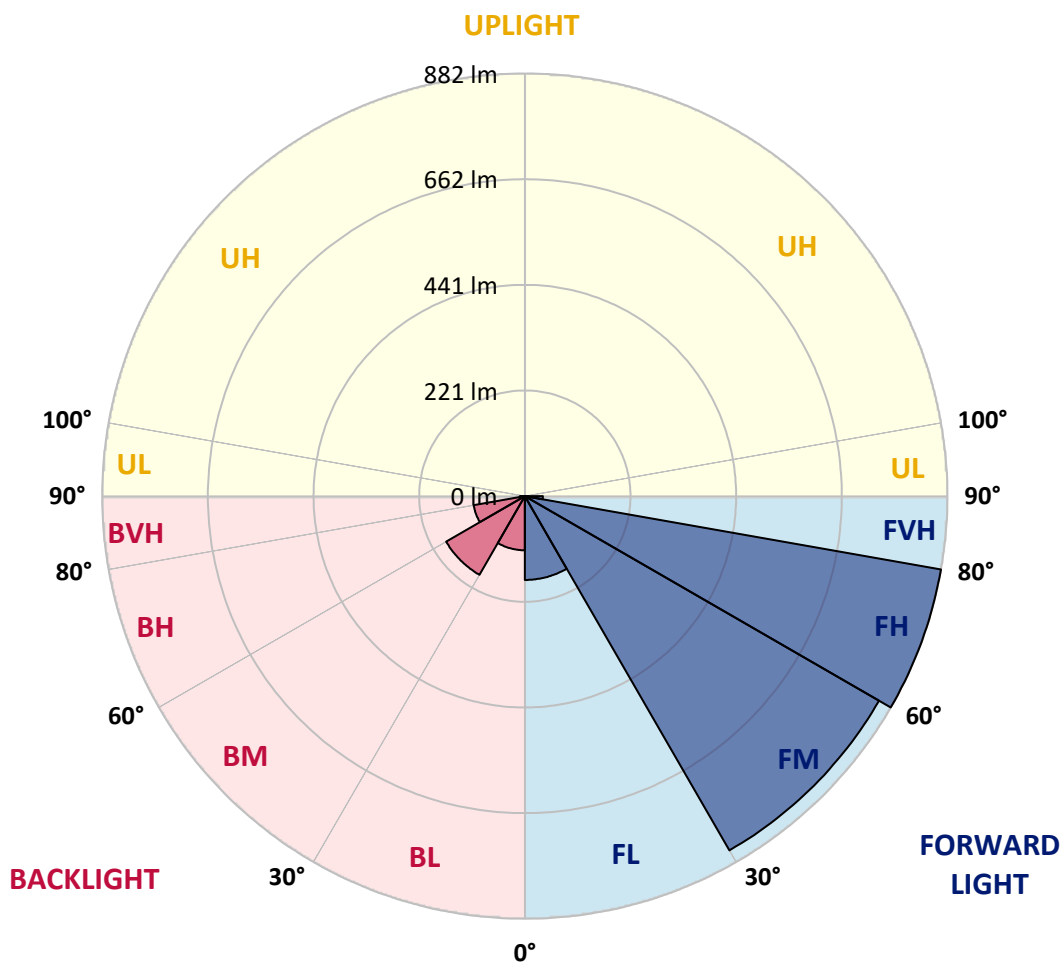
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	175.0	7.4			
FM (30°-60°)	854.0	36.0			
FH (60°-80°)	882.3	37.2			G1/1800
FVH (80°-90°)	37.6	1.6			G1/100
BL (0°-30°)	113.1	4.8	B1/500		
BM (30°-60°)	189.6	8.0	B0/220		
BH (60°-80°)	108.5	4.6	B0/110		G0/110
BVH (80°-90°)	10.6	0.4			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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	392.7	392.7	392.7	392.7	392.7	392.7	392.7	392.7	392.7	392.7	392.7
2.5°	371.2	373.3	375.1	377.0	378.5	382.6	383.5	387.9	389.1	390.1	391.5
5°	350.4	351.9	353.8	356.9	360.1	367.5	372.6	382.3	387.8	389.5	394.2
7.5°	339.1	339.6	342.2	344.8	348.5	355.7	362.7	377.9	388.8	390.7	400.9
10°	330.9	331.6	334.0	337.6	341.4	348.0	356.7	374.8	392.5	395.4	409.9
12.5°	328.0	327.7	330.4	332.8	338.1	346.5	355.5	375.0	397.7	401.7	423.1
15°	339.6	337.4	339.1	338.3	340.0	348.2	358.9	378.7	404.0	409.1	436.7
17.5°	365.2	363.4	362.2	354.8	350.1	354.7	364.9	384.0	410.6	416.1	449.0
20°	403.5	398.2	393.7	381.4	368.1	366.6	373.8	389.3	416.9	422.2	462.0
22.5°	447.0	442.7	435.5	414.0	393.4	383.2	385.0	399.0	426.1	431.9	476.8
25°	501.9	501.7	487.0	458.0	426.8	406.2	402.3	414.5	436.5	442.2	489.1
27.5°	564.5	560.2	542.8	505.5	466.2	434.7	425.5	430.4	444.9	450.7	499.0
30°	618.1	618.6	600.8	560.1	508.2	462.5	445.1	441.8	450.4	456.2	508.2
32.5°	675.4	672.5	656.3	614.3	553.6	492.3	457.7	450.0	456.0	461.5	521.0
35°	729.3	726.0	712.1	666.8	603.6	525.3	474.8	462.8	469.3	475.3	536.7
37.5°	780.6	781.1	765.3	722.1	652.0	564.1	500.0	482.1	489.1	495.7	560.6
40°	825.5	822.9	810.7	771.8	702.3	603.7	528.5	508.4	522.0	528.2	590.8
42.5°	839.8	839.7	844.4	820.5	755.2	650.8	564.0	549.3	568.6	577.8	627.8
45°	827.4	831.1	858.8	858.1	808.1	704.9	612.4	599.1	626.9	637.3	673.0
47.5°	815.1	820.7	858.2	879.6	855.5	764.4	672.0	662.1	702.0	717.0	719.9
50°	797.2	802.5	847.2	882.6	884.5	824.6	749.1	736.6	788.0	803.3	770.9
52.5°	777.2	781.3	827.5	880.4	898.3	871.7	824.6	821.1	880.1	892.5	822.8
55°	667.0	684.4	798.7	875.7	907.9	907.7	898.2	909.9	980.6	999.2	880.6
57.5°	603.7	612.9	717.5	872.9	925.8	941.0	974.1	999.3	1087.9	1104.6	944.4
60°	583.1	591.3	676.7	869.7	961.5	993.0	1048.3	1089.2	1203.2	1223.7	1015.7
62.5°	564.3	574.2	660.2	843.9	1004.6	1075.4	1136.8	1186.5	1324.8	1349.0	1086.7
65°	526.1	533.1	629.8	822.3	1045.6	1193.0	1264.6	1293.6	1442.7	1470.0	1133.8
67.5°	460.1	466.7	561.4	772.4	1072.2	1315.3	1404.3	1404.5	1533.8	1556.1	1143.7
70°	382.5	387.6	462.8	663.9	1016.7	1393.7	1530.4	1477.0	1559.6	1569.3	1096.6
72.5°	273.5	277.9	339.0	490.8	833.7	1330.1	1559.0	1473.9	1497.1	1494.0	962.7
75°	168.5	177.1	207.6	299.6	518.1	1046.6	1403.1	1335.6	1257.1	1248.6	724.8
77.5°	109.9	114.3	140.4	176.7	228.6	600.8	1065.7	1001.4	793.8	783.9	389.6
80°	66.0	73.4	91.9	111.1	103.5	229.8	608.5	497.4	280.5	277.4	119.8
82.5°	35.5	42.1	64.8	68.7	58.2	81.2	220.4	161.7	89.7	88.7	44.9
85°	28.1	31.4	46.6	43.5	32.9	41.1	86.0	67.4	46.1	45.0	16.9
87.5°	17.1	21.5	35.3	29.3	16.4	14.8	39.4	31.9	21.7	20.1	6.7
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°	392.7	392.7	392.7	392.7	392.7	392.7	392.7	392.7	392.7	392.7	392.7
2.5°	394.1	394.9	395.8	394.1	394.8	393.9	393.9	393.9	391.7	391.0	393.0
5°	397.8	399.0	399.7	394.4	391.2	386.4	382.5	376.5	373.1	370.9	370.9
7.5°	405.5	406.9	403.8	392.0	380.6	367.8	354.7	343.7	335.9	332.5	333.5
10°	416.8	417.3	407.0	385.4	361.0	337.3	318.7	304.2	294.4	289.5	288.8
12.5°	429.9	427.7	407.7	370.7	334.5	302.6	279.9	261.2	248.7	243.9	241.6
15°	442.9	437.6	405.2	353.1	304.5	266.1	237.1	219.4	211.7	209.5	208.6
17.5°	454.5	444.6	396.6	327.9	269.7	223.5	202.2	195.8	196.7	198.7	199.6
20°	465.0	449.9	384.3	297.9	226.2	190.2	184.9	190.7	195.5	198.6	199.1
22.5°	476.6	455.0	367.3	261.3	190.6	174.9	181.2	187.8	192.6	195.7	196.2
25°	485.5	454.8	343.2	218.0	168.0	170.8	178.3	184.2	187.8	190.0	189.9
27.5°	491.1	450.7	311.7	182.4	159.2	167.9	175.0	179.0	181.0	182.7	182.5
30°	492.8	442.9	271.9	156.1	155.1	165.1	170.6	173.0	174.5	176.2	176.2
32.5°	496.3	430.7	228.1	141.4	152.0	162.4	165.6	167.5	166.3	162.1	161.2
35°	500.0	417.3	186.6	134.6	149.1	160.5	163.6	158.7	145.7	144.0	143.3
37.5°	507.3	404.8	151.5	129.8	148.4	161.6	164.1	144.3	133.4	128.1	127.3
40°	519.8	392.4	127.9	126.4	149.3	166.0	157.3	137.5	119.4	109.3	107.6
42.5°	536.2	377.2	114.6	124.7	151.7	173.2	154.9	127.8	108.0	101.2	100.1
45°	555.1	357.0	108.3	124.4	154.6	176.7	155.6	119.9	102.9	97.6	97.2
47.5°	574.7	337.3	105.6	124.0	158.1	175.2	146.2	117.5	100.8	99.3	100.3
50°	595.9	314.7	103.4	123.2	161.0	175.2	141.1	117.0	101.5	104.9	108.3
52.5°	615.7	295.8	100.8	120.6	162.2	172.1	139.5	118.9	102.5	101.7	102.7
55°	639.7	286.1	99.5	117.0	160.0	162.7	137.7	124.0	103.4	96.4	96.4
57.5°	667.2	284.0	97.4	112.2	152.9	149.8	137.5	127.1	101.2	94.7	93.5
60°	700.3	288.5	94.8	106.3	144.2	139.7	136.3	127.1	97.6	91.8	92.3
62.5°	727.1	288.0	93.3	101.0	132.6	129.3	134.1	125.4	96.2	91.4	91.3
65°	733.4	277.0	88.9	94.2	118.2	116.7	131.7	121.1	94.3	89.6	88.2
67.5°	712.1	252.3	82.2	85.1	103.0	103.2	127.4	115.5	91.8	88.5	86.3
70°	651.5	204.0	72.3	74.2	86.7	88.9	121.1	108.8	87.5	84.1	78.8
72.5°	545.2	146.7	60.9	61.4	68.9	74.7	110.2	99.8	81.2	73.2	67.6
75°	403.6	97.4	49.6	49.0	51.7	60.7	94.2	89.7	73.0	60.7	57.8
77.5°	213.4	57.7	38.2	38.4	36.7	46.6	74.7	78.0	64.8	51.2	48.3
80°	73.0	34.6	27.5	28.7	25.9	33.3	55.4	64.8	55.4	42.6	37.7
82.5°	33.4	21.2	19.6	20.5	18.6	22.5	38.0	49.1	44.2	31.0	25.1
85°	16.9	12.6	12.6	13.8	12.3	11.6	21.0	32.6	32.4	21.3	18.4
87.5°	7.0	6.1	5.8	6.7	5.8	4.4	6.0	11.8	17.1	12.8	8.2
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)