

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: P672331

Luminaire Tested: **CCP-SA-1A-850-U-T3R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672331  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1A-850-U-T3R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ T3R distribution lens  
Light Source: (16) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

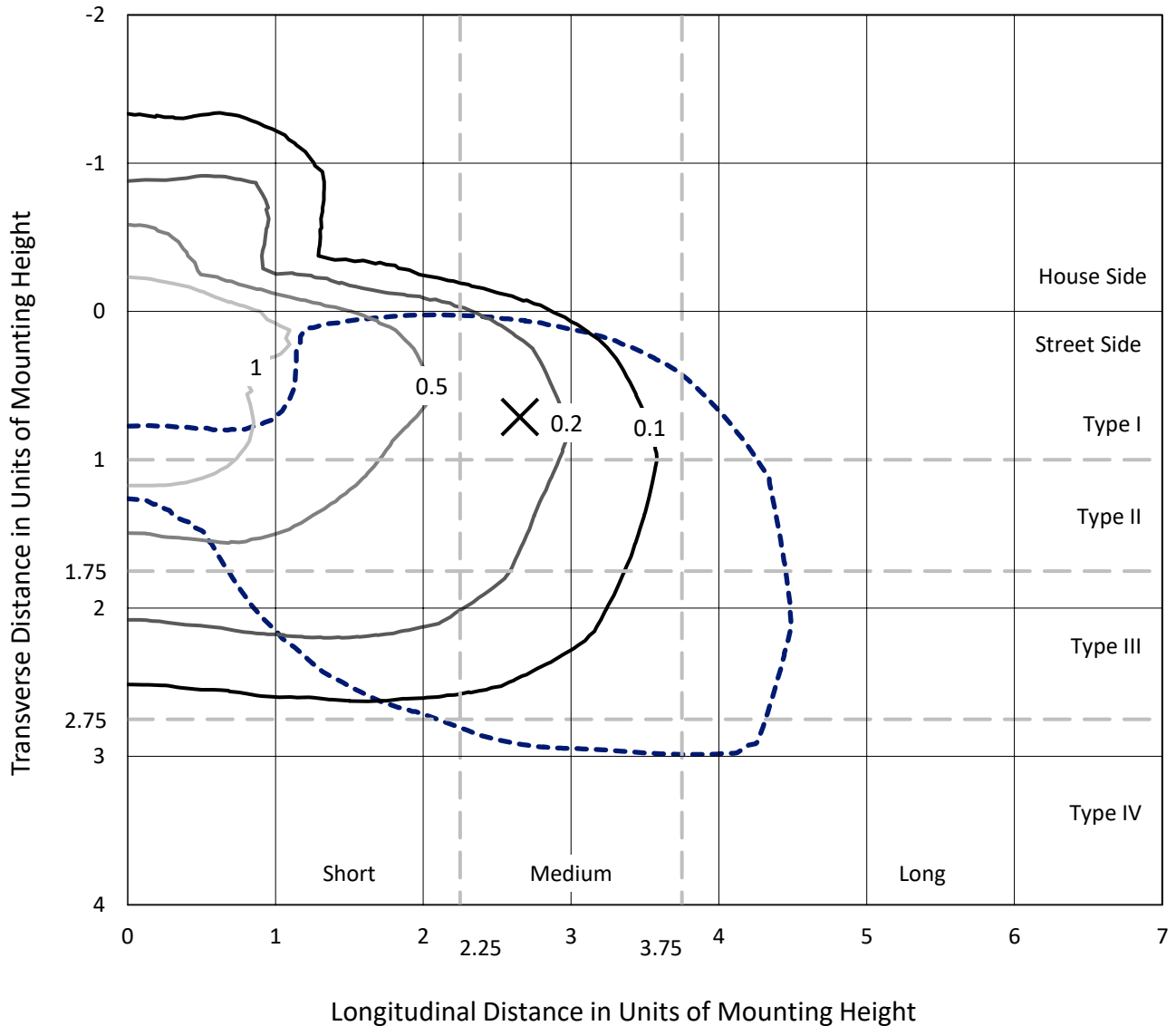
Lumens per Lamp: N/A  
Luminaire Lumens: 2426.4 lumens  
Efficiency: N/A  
Efficacy: 134.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 18  
Input Voltage (V): 120  
Input Current (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

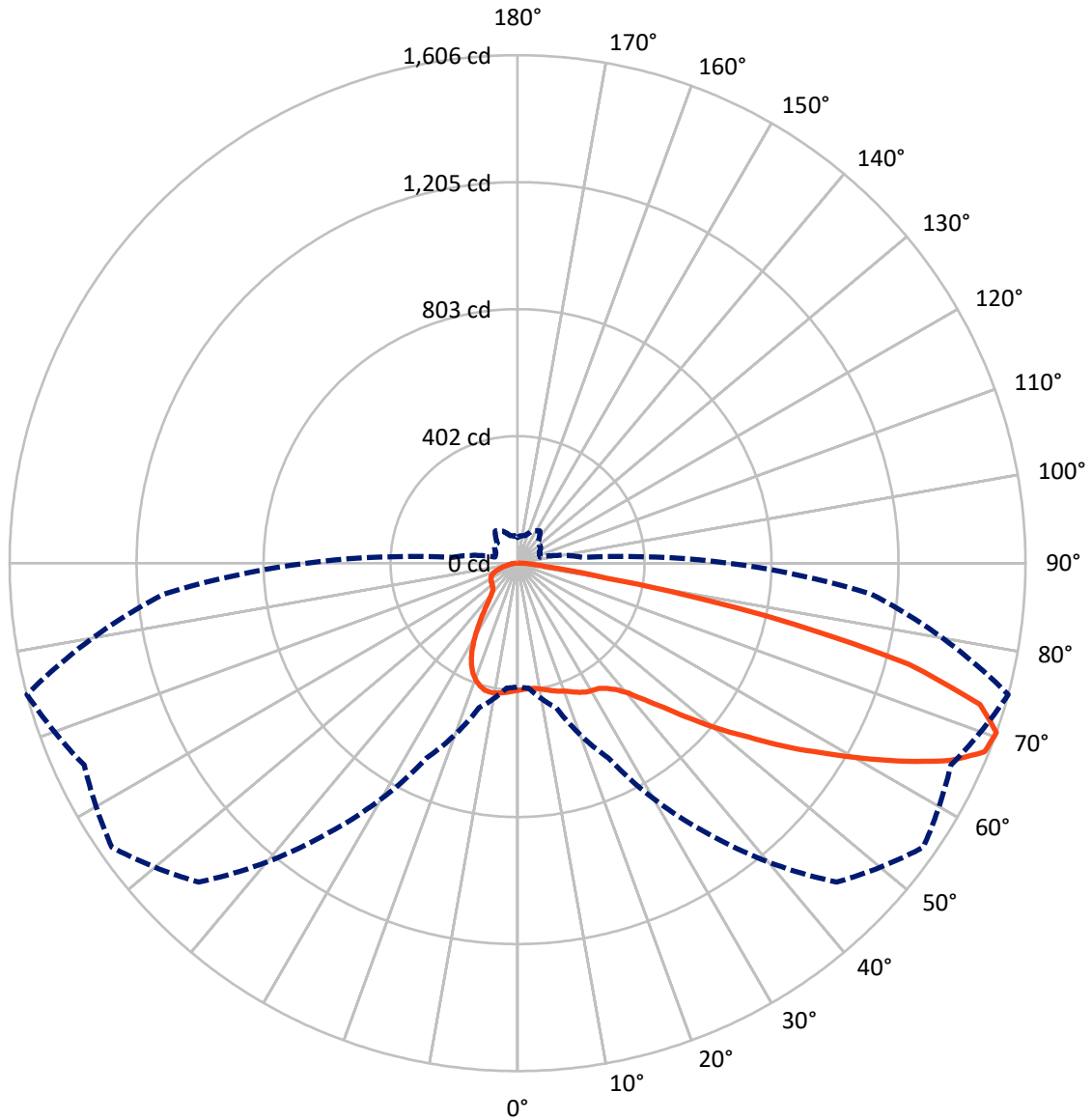
× Max cd  
 - - - 1/2 Max cd



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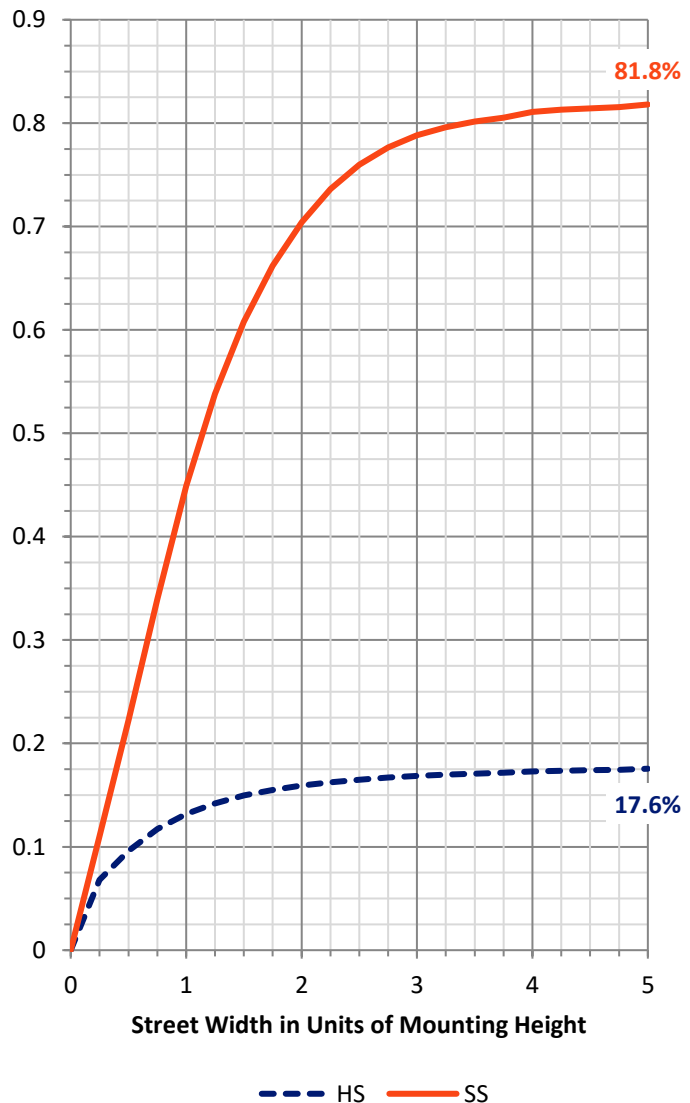
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	431.7	0.0	431.7
	% Fixture	17.8	0.0	17.8
<b>Street Side</b>	Lumens	1994.7	0.0	1994.7
	% Fixture	82.2	0.0	82.2
<b>Total</b>	Lumens	2426.4	0.0	2426.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.1	1.5
10°-20°	96.4	4.0
20°-30°	162.3	6.7
30°-40°	246.6	10.2
40°-50°	353.2	14.6
50°-60°	468.3	19.3
60°-70°	586.1	24.2
70°-80°	428.0	17.6
80°-90°	49.3	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°	2426.4	100.0
0°-180°	2426.4	100.0



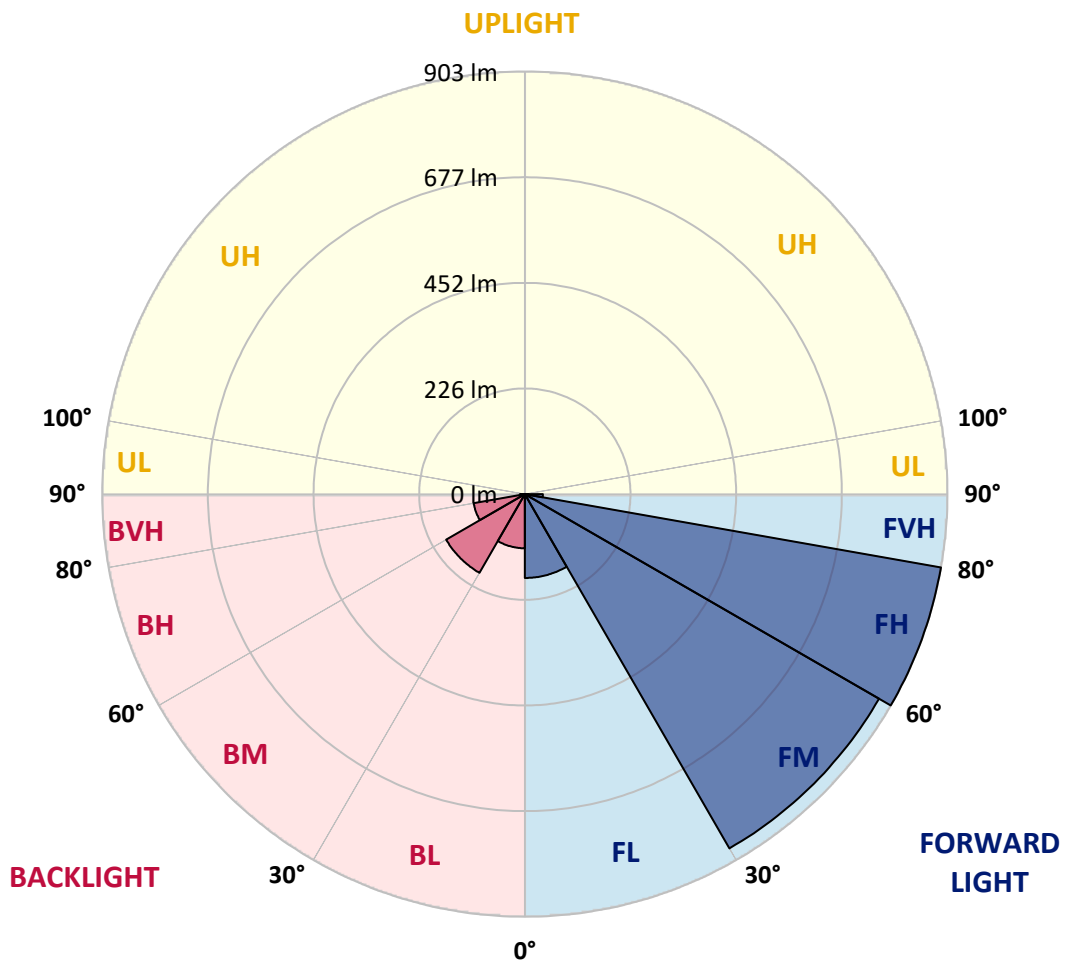
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	179.1	7.4			
FM (30°-60°)	874.1	36.0			
FH (60°-80°)	903.0	37.2			G1/1800
FVH (80°-90°)	38.5	1.6			G1/100
BL (0°-30°)	115.7	4.8	B1/500		
BM (30°-60°)	194.1	8.0	B0/220		
BH (60°-80°)	111.0	4.6	B1/500		G1/500
BVH (80°-90°)	10.8	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°	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9
2.5°	379.9	382.0	383.9	385.9	387.4	391.6	392.5	397.0	398.2	399.3	400.7
5°	358.6	360.2	362.1	365.3	368.6	376.1	381.3	391.3	396.9	398.6	403.5
7.5°	347.1	347.6	350.2	352.9	356.7	364.0	371.2	386.7	397.9	399.8	410.3
10°	338.7	339.4	341.9	345.5	349.4	356.2	365.1	383.6	401.7	404.7	419.5
12.5°	335.7	335.4	338.2	340.6	346.0	354.6	363.9	383.8	407.0	411.2	433.0
15°	347.6	345.3	347.1	346.2	348.0	356.3	367.3	387.6	413.4	418.7	447.0
17.5°	373.8	371.9	370.7	363.2	358.3	363.0	373.5	393.0	420.2	425.8	459.5
20°	412.9	407.5	403.0	390.4	376.8	375.2	382.5	398.4	426.7	432.1	472.8
22.5°	457.4	453.1	445.7	423.7	402.6	392.1	394.1	408.4	436.1	442.1	488.0
25°	513.7	513.5	498.5	468.8	436.8	415.7	411.7	424.3	446.8	452.5	500.6
27.5°	577.7	573.4	555.6	517.3	477.2	444.9	435.4	440.5	455.3	461.3	510.7
30°	632.6	633.1	614.9	573.2	520.1	473.3	455.5	452.2	460.9	466.9	520.1
32.5°	691.2	688.2	671.7	628.7	566.6	503.9	468.4	460.6	466.7	472.3	533.2
35°	746.4	743.1	728.8	682.5	617.7	537.6	485.9	473.7	480.3	486.4	549.3
37.5°	798.9	799.5	783.2	739.1	667.3	577.4	511.7	493.4	500.6	507.4	573.7
40°	844.9	842.2	829.7	789.9	718.8	617.9	540.9	520.3	534.3	540.5	604.6
42.5°	859.5	859.4	864.2	839.8	772.9	666.1	577.2	562.2	581.9	591.3	642.5
45°	846.8	850.6	878.9	878.2	827.1	721.4	626.8	613.2	641.6	652.3	688.8
47.5°	834.2	840.0	878.4	900.2	875.6	782.4	687.7	677.6	718.5	733.8	736.8
50°	815.9	821.3	867.0	903.3	905.3	844.0	766.6	753.9	806.4	822.2	789.0
52.5°	795.5	799.6	847.0	901.1	919.4	892.2	844.0	840.3	900.7	913.5	842.1
55°	682.7	700.5	817.4	896.2	929.2	929.0	919.2	931.3	1003.6	1022.6	901.3
57.5°	617.9	627.3	734.3	893.4	947.5	963.1	996.9	1022.8	1113.4	1130.5	966.6
60°	596.8	605.1	692.6	890.1	984.0	1016.3	1072.9	1114.8	1231.4	1252.4	1039.5
62.5°	577.6	587.7	675.7	863.7	1028.2	1100.6	1163.5	1214.3	1355.9	1380.7	1112.2
65°	538.4	545.6	644.6	841.5	1070.1	1220.9	1294.3	1323.9	1476.5	1504.5	1160.4
67.5°	470.9	477.7	574.6	790.6	1097.3	1346.1	1437.3	1437.4	1569.8	1592.6	1170.5
70°	391.4	396.7	473.7	679.5	1040.6	1426.4	1566.3	1511.6	1596.1	1606.1	1122.3
72.5°	279.9	284.4	346.9	502.3	853.2	1361.3	1595.6	1508.5	1532.2	1529.1	985.2
75°	172.5	181.2	212.5	306.6	530.2	1071.1	1436.0	1366.9	1286.6	1277.9	741.8
77.5°	112.4	117.0	143.7	180.9	234.0	614.9	1090.7	1024.9	812.4	802.3	398.8
80°	67.6	75.1	94.1	113.7	106.0	235.2	622.8	509.1	287.0	283.9	122.6
82.5°	36.3	43.1	66.3	70.4	59.5	83.1	225.6	165.5	91.8	90.8	45.9
85°	28.8	32.1	47.7	44.5	33.7	42.1	88.0	69.0	47.1	46.1	17.3
87.5°	17.5	22.0	36.1	30.0	16.8	15.2	40.3	32.6	22.2	20.6	6.8
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°	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9
2.5°	403.3	404.2	405.1	403.3	404.0	403.1	403.1	403.1	400.9	400.2	402.3
5°	407.2	408.4	409.1	403.7	400.3	395.5	391.4	385.3	381.8	379.6	379.6
7.5°	415.0	416.4	413.3	401.2	389.5	376.4	363.0	351.8	343.8	340.3	341.3
10°	426.5	427.1	416.6	394.4	369.4	345.2	326.1	311.3	301.3	296.3	295.6
12.5°	440.0	437.7	417.3	379.4	342.4	309.7	286.5	267.3	254.6	249.7	247.2
15°	453.2	447.8	414.7	361.4	311.7	272.4	242.7	224.5	216.7	214.4	213.5
17.5°	465.1	455.0	405.9	335.6	276.0	228.7	206.9	200.4	201.3	203.4	204.3
20°	475.9	460.4	393.4	304.8	231.5	194.7	189.3	195.2	200.1	203.2	203.8
22.5°	487.8	465.6	375.9	267.5	195.0	179.0	185.4	192.2	197.1	200.3	200.8
25°	496.9	465.5	351.3	223.1	172.0	174.8	182.5	188.6	192.2	194.5	194.3
27.5°	502.7	461.3	319.0	186.6	162.9	171.8	179.1	183.1	185.2	187.0	186.8
30°	504.4	453.2	278.3	159.8	158.7	169.0	174.6	177.0	178.6	180.4	180.4
32.5°	507.9	440.8	233.4	144.7	155.6	166.2	169.5	171.5	170.2	165.9	165.0
35°	511.7	427.1	191.0	137.8	152.6	164.3	167.4	162.4	149.1	147.4	146.7
37.5°	519.2	414.3	155.0	132.9	151.9	165.3	168.0	147.7	136.5	131.1	130.2
40°	532.0	401.6	130.9	129.4	152.8	169.9	161.0	140.7	122.2	111.9	110.2
42.5°	548.7	386.0	117.3	127.6	155.2	177.2	158.5	130.8	110.5	103.5	102.5
45°	568.1	365.4	110.9	127.3	158.2	180.9	159.2	122.7	105.3	99.9	99.5
47.5°	588.2	345.2	108.1	126.9	161.8	179.3	149.6	120.3	103.2	101.6	102.7
50°	609.9	322.1	105.8	126.1	164.8	179.3	144.4	119.8	103.9	107.4	110.9
52.5°	630.1	302.7	103.2	123.4	166.0	176.2	142.8	121.7	104.9	104.1	105.1
55°	654.7	292.8	101.8	119.8	163.8	166.6	140.9	126.9	105.8	98.6	98.6
57.5°	682.8	290.7	99.7	114.9	156.4	153.3	140.7	130.1	103.5	96.9	95.7
60°	716.7	295.2	97.1	108.8	147.5	143.0	139.5	130.1	99.9	93.9	94.5
62.5°	744.1	294.7	95.5	103.4	135.7	132.3	137.2	128.3	98.5	93.6	93.4
65°	750.6	283.5	91.0	96.4	121.0	119.4	134.8	124.0	96.6	91.7	90.3
67.5°	728.8	258.2	84.2	87.1	105.5	105.6	130.4	118.2	93.9	90.6	88.3
70°	666.8	208.8	74.0	75.9	88.7	91.0	124.0	111.4	89.6	86.1	80.7
72.5°	558.0	150.2	62.3	62.9	70.5	76.5	112.8	102.1	83.1	74.9	69.1
75°	413.1	99.7	50.8	50.1	52.9	62.2	96.4	91.8	74.7	62.2	59.2
77.5°	218.4	59.0	39.1	39.3	37.5	47.7	76.5	79.8	66.3	52.4	49.4
80°	74.7	35.4	28.1	29.3	26.5	34.0	56.7	66.3	56.7	43.6	38.6
82.5°	34.2	21.6	20.1	21.0	19.0	23.0	38.9	50.3	45.2	31.8	25.7
85°	17.3	12.9	12.9	14.1	12.6	11.9	21.5	33.3	33.2	21.8	18.9
87.5°	7.2	6.3	5.9	6.8	5.9	4.5	6.1	12.0	17.5	13.1	8.4
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)