

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: P674480

Luminaire Tested: **CCP-SA-1A-840-U-AFL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674480
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-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @350mA w/ AFL distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

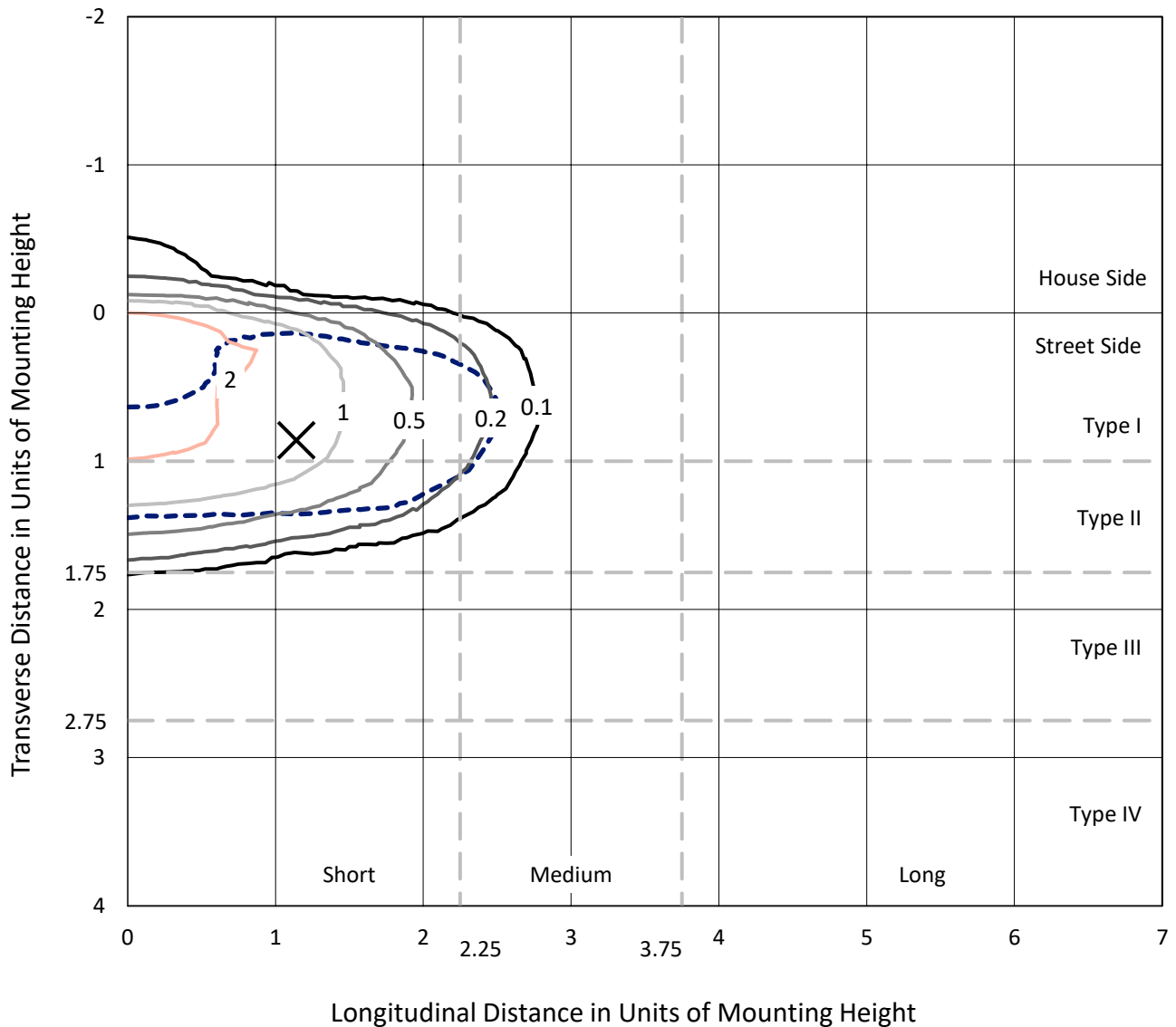
Lumens per Lamp: N/A
Luminaire Lumens: 1934.3 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

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

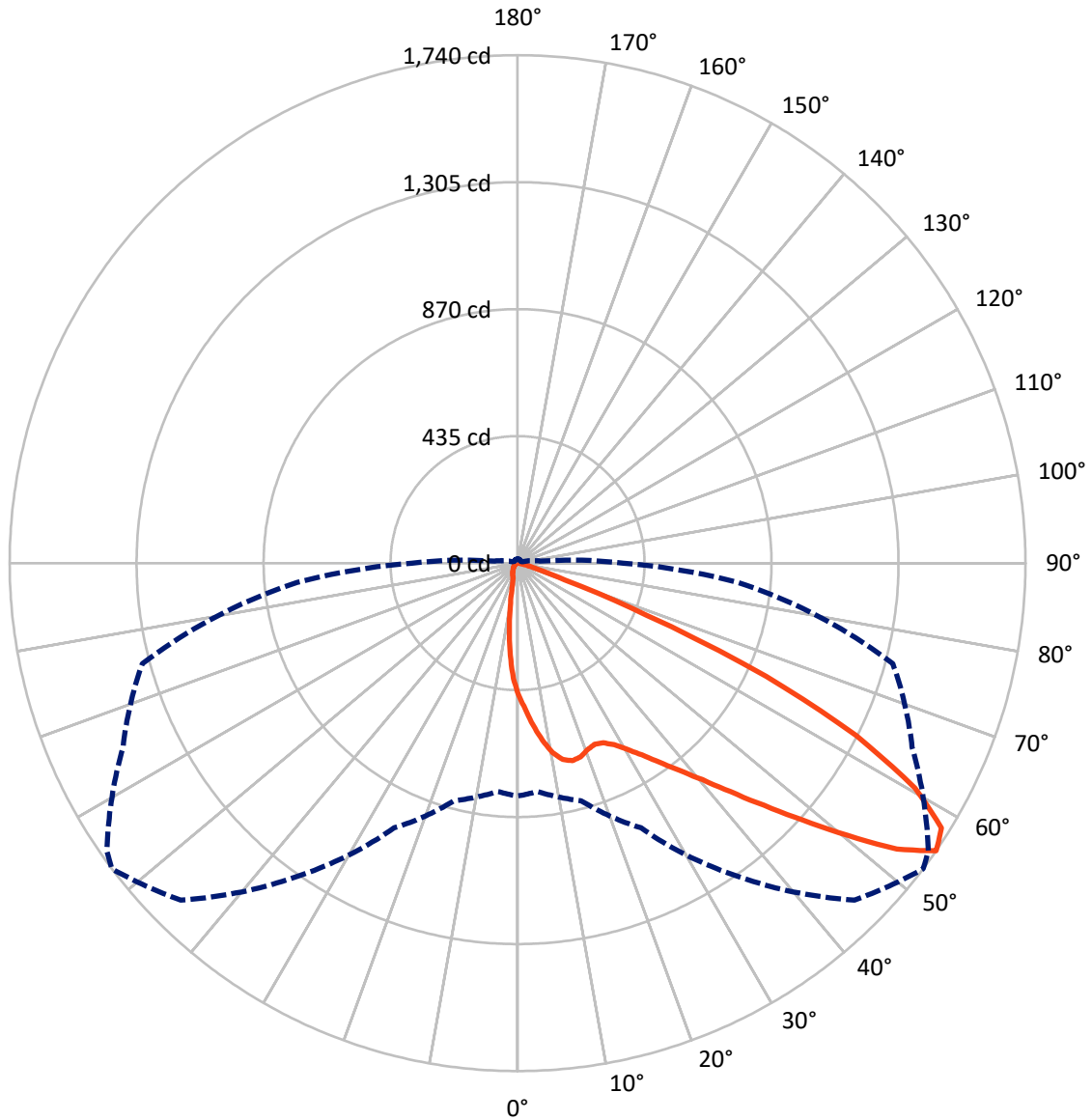
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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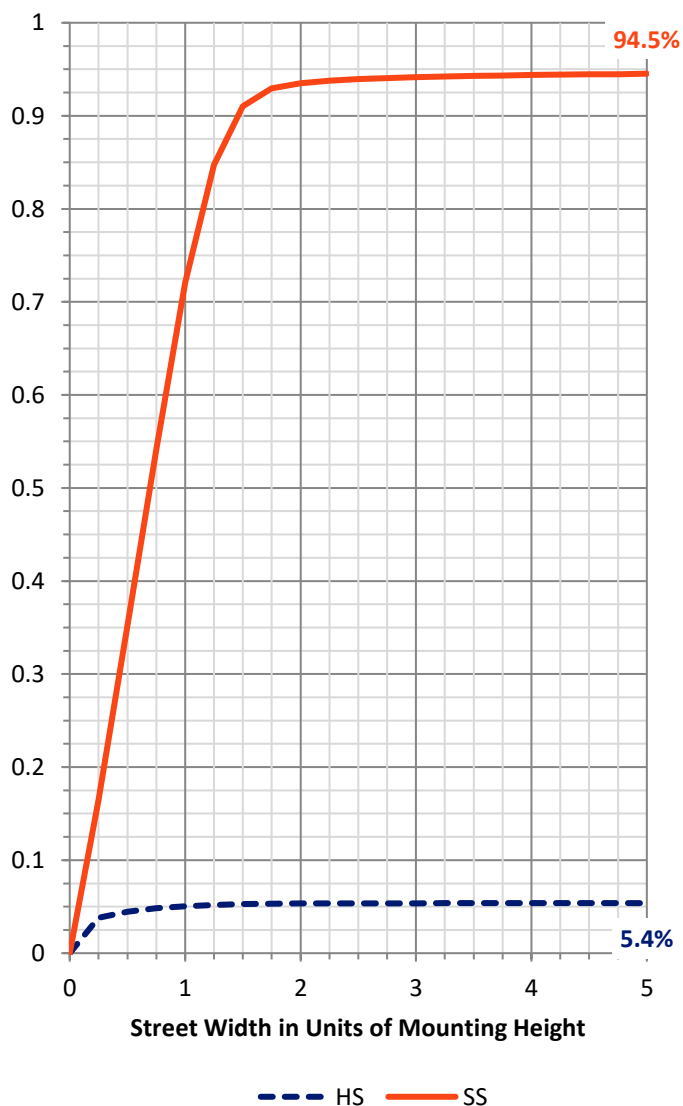
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	104.6	0.0	104.6
	% Fixture	5.4	0.0	5.4
Street Side	Lumens	1829.7	0.0	1829.7
	% Fixture	94.6	0.0	94.6
Total	Lumens	1934.3	0.0	1934.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.5	2.1
10°-20°	105.8	5.5
20°-30°	177.0	9.2
30°-40°	289.6	15.0
40°-50°	465.5	24.1
50°-60°	525.5	27.2
60°-70°	280.3	14.5
70°-80°	46.1	2.4
80°-90°	4.1	0.2
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°	1934.3	100.0
0°-180°	1934.3	100.0



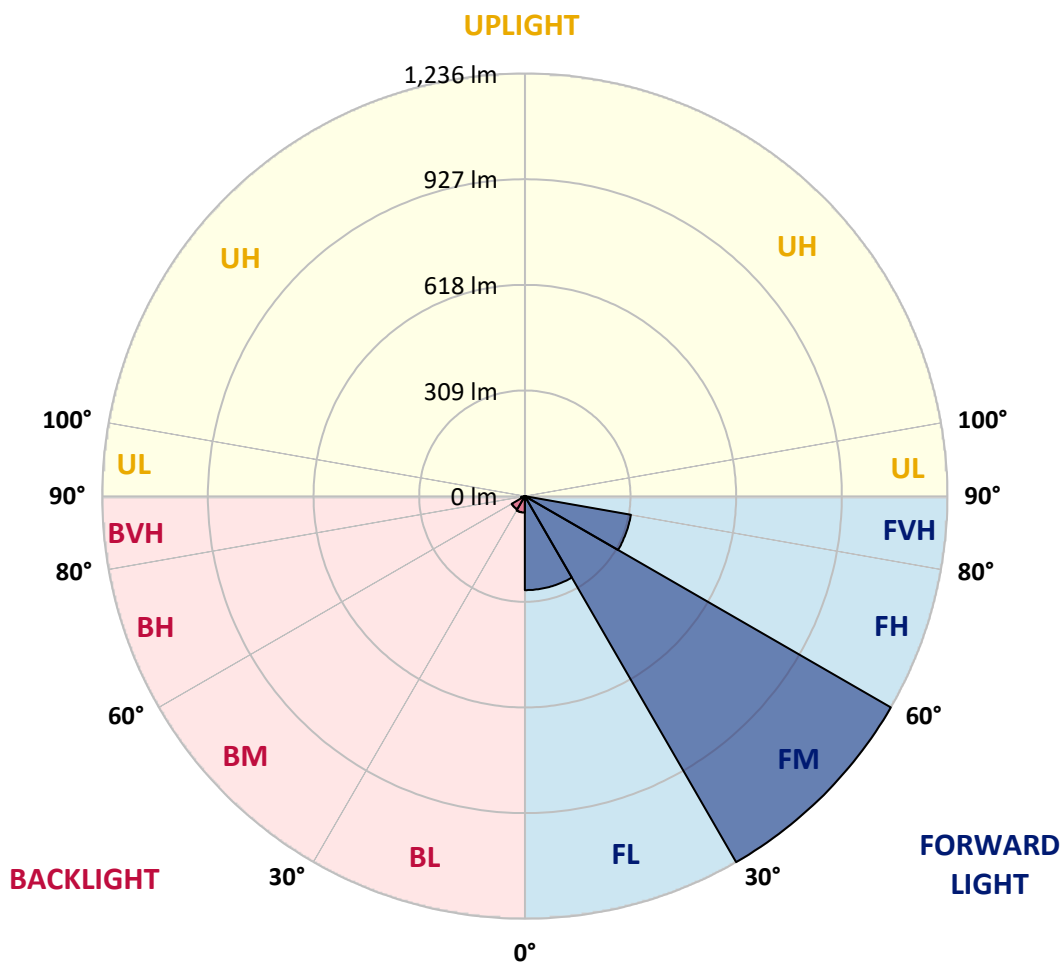
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	275.0	14.2			
FM (30°-60°)	1236.0	63.9			
FH (60°-80°)	315.0	16.3			G0/660
FVH (80°-90°)	3.8	0.2			G0/10
BL (0°-30°)	48.3	2.5	B0/110		
BM (30°-60°)	44.5	2.3	B0/220		
BH (60°-80°)	11.4	0.6	B0/110		G0/110
BVH (80°-90°)	0.3	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-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	452.7	452.7	452.7	452.7	452.7	452.7	452.7	452.7	452.7	452.7	452.7
2.5°	542.8	539.6	541.5	536.6	527.6	516.4	499.6	500.5	487.2	475.7	459.8
5°	632.5	629.1	628.1	615.5	603.0	582.8	557.9	553.8	529.6	500.3	466.9
7.5°	679.8	676.9	679.1	674.5	662.1	643.8	612.3	609.3	571.8	527.4	478.3
10°	658.1	657.1	666.4	677.2	687.2	685.0	659.8	655.0	613.0	557.2	490.0
12.5°	599.8	603.0	614.9	634.9	665.7	694.7	690.6	691.5	655.0	589.6	502.8
15°	565.5	569.4	576.2	586.6	624.5	676.0	702.3	710.8	695.4	625.7	518.1
17.5°	562.7	565.9	566.9	570.8	593.0	646.0	697.6	713.7	731.3	659.8	535.2
20°	584.9	586.2	585.4	582.5	590.5	629.8	682.6	705.7	760.9	696.0	550.3
22.5°	626.7	624.7	622.1	611.5	611.0	634.3	674.5	698.6	778.6	726.0	560.3
25°	678.6	674.3	670.8	655.7	648.6	658.2	681.8	701.1	794.5	755.2	567.4
27.5°	735.2	736.5	727.7	707.4	696.2	694.2	704.3	718.7	809.9	781.3	571.3
30°	795.7	796.4	784.8	763.8	753.7	740.6	739.9	748.6	826.5	811.3	575.0
32.5°	864.7	866.5	847.7	825.9	808.1	791.1	782.8	790.1	856.4	850.4	582.7
35°	964.3	956.2	930.8	897.7	872.5	850.3	837.5	842.3	896.0	897.4	597.9
37.5°	1067.0	1066.2	1038.0	990.4	949.1	921.4	899.7	907.5	951.8	960.2	622.3
40°	1162.8	1165.0	1140.6	1099.0	1045.8	998.4	975.2	980.4	1025.8	1036.5	652.0
42.5°	1225.3	1224.1	1226.0	1214.1	1160.7	1104.8	1069.9	1072.8	1111.9	1117.5	689.1
45°	1254.1	1249.5	1265.5	1303.1	1281.9	1223.1	1183.3	1179.7	1201.2	1199.7	722.8
47.5°	1229.2	1220.7	1257.3	1348.0	1389.0	1371.2	1314.3	1307.8	1289.5	1277.3	757.9
50°	1105.3	1101.6	1179.9	1326.7	1456.3	1508.2	1466.3	1442.4	1368.3	1334.6	776.4
52.5°	987.5	977.2	1030.1	1217.7	1426.3	1618.3	1627.0	1584.4	1433.8	1351.1	770.1
55°	797.7	785.0	842.6	1000.4	1307.5	1632.4	1739.8	1717.6	1491.0	1330.7	757.4
57.5°	484.5	472.0	556.7	716.5	1045.7	1515.4	1712.0	1734.6	1535.1	1308.4	749.1
60°	203.7	195.7	229.0	342.0	667.7	1245.5	1564.6	1620.9	1543.4	1277.7	752.5
62.5°	105.9	102.4	104.2	136.9	270.0	820.1	1302.2	1400.2	1459.7	1264.1	755.9
65°	79.5	76.8	70.8	75.2	104.9	354.5	935.8	1067.0	1278.2	1229.7	733.0
67.5°	65.2	62.7	58.5	57.1	61.9	123.0	477.8	648.2	1001.6	1083.1	651.0
70°	52.0	51.2	49.8	47.3	46.4	59.7	171.3	264.2	662.3	763.8	471.8
72.5°	43.4	43.6	42.0	39.8	36.8	38.5	68.3	90.3	320.5	366.2	197.6
75°	36.3	36.3	36.8	33.7	30.7	26.4	38.0	44.1	102.9	84.6	42.2
77.5°	28.5	28.8	31.0	28.5	24.6	16.6	20.7	23.6	30.5	24.4	15.4
80°	22.7	22.4	21.5	25.6	22.0	11.7	9.8	10.8	14.2	11.7	7.6
82.5°	15.9	15.8	15.1	17.3	17.1	8.6	6.4	6.6	8.6	7.5	4.7
85°	3.9	4.6	9.7	8.1	7.1	5.1	3.9	4.2	5.6	4.9	2.5
87.5°	1.7	1.7	4.4	5.3	3.4	2.2	1.7	1.9	2.9	2.9	1.5
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°	452.7	452.7	452.7	452.7	452.7	452.7	452.7	452.7	452.7	452.7	452.7
2.5°	454.2	443.2	429.3	414.5	399.5	381.3	369.8	360.3	352.8	347.1	345.1
5°	455.9	434.7	403.2	364.0	324.2	286.9	258.1	236.8	219.1	209.5	205.2
7.5°	455.7	427.6	370.6	305.1	240.3	186.6	148.5	124.9	109.1	102.7	98.8
10°	455.6	418.3	333.5	239.6	160.7	108.1	79.7	66.4	60.7	58.5	58.1
12.5°	460.5	407.6	292.0	176.4	100.8	67.3	55.4	52.4	51.0	50.3	50.2
15°	463.2	397.8	248.3	124.6	68.0	53.2	49.5	48.1	47.6	47.3	47.1
17.5°	466.1	382.5	206.8	90.2	54.4	48.3	46.1	45.2	44.9	44.9	44.9
20°	466.6	366.1	165.6	66.4	48.3	45.1	42.9	42.0	41.5	41.2	41.2
22.5°	462.8	346.6	130.2	53.9	44.7	42.0	39.7	38.3	37.5	37.3	37.3
25°	453.5	319.0	99.8	47.3	41.9	39.0	36.1	34.6	33.9	33.9	33.9
27.5°	440.1	286.4	77.1	42.0	38.1	35.3	32.7	31.4	31.2	31.0	31.2
30°	424.9	255.1	59.0	37.3	33.7	31.4	29.3	28.6	29.0	29.0	29.1
32.5°	409.6	223.7	46.1	33.6	29.8	27.8	26.8	26.8	27.3	27.3	27.3
35°	396.6	193.0	38.6	30.5	27.1	25.4	24.9	25.4	25.8	25.9	25.9
37.5°	389.3	166.6	34.1	27.8	24.9	23.6	23.4	23.9	24.6	25.1	25.3
40°	386.6	146.3	31.4	25.8	22.9	22.0	21.9	22.5	23.7	24.6	24.7
42.5°	386.7	128.3	29.0	23.7	21.5	20.3	20.3	21.4	22.5	23.4	23.4
45°	387.9	112.9	26.6	21.7	20.3	18.3	18.5	19.8	20.7	21.5	21.5
47.5°	388.9	100.5	24.1	19.5	17.6	16.6	16.9	18.0	19.2	20.5	20.5
50°	383.0	91.7	21.5	17.1	15.4	15.1	15.8	16.6	18.3	19.7	19.8
52.5°	368.8	83.7	19.3	15.3	13.9	14.1	14.9	15.4	16.8	16.9	17.1
55°	362.5	79.7	17.6	13.9	12.7	13.2	13.7	13.9	13.6	12.7	12.7
57.5°	361.2	76.9	15.9	12.5	11.7	12.4	12.2	11.2	10.2	9.2	9.0
60°	362.5	73.2	14.6	10.8	10.7	10.8	10.3	8.5	7.1	6.4	6.1
62.5°	354.7	67.8	13.4	9.3	9.3	9.2	7.8	5.8	4.6	4.1	3.9
65°	329.0	57.1	12.2	7.8	7.6	7.3	5.3	3.9	3.1	2.5	2.4
67.5°	278.3	44.2	11.0	6.4	6.1	5.1	3.4	2.5	1.7	1.5	1.4
70°	189.8	27.5	9.3	5.1	4.6	3.2	2.0	1.5	1.0	0.8	0.7
72.5°	68.8	15.9	7.8	3.9	3.1	2.0	1.2	0.7	0.5	0.5	0.3
75°	16.3	11.2	5.9	2.9	2.0	1.2	0.7	0.5	0.3	0.3	0.2
77.5°	7.5	8.6	3.9	1.7	1.4	0.8	0.5	0.3	0.2	0.2	0.0
80°	4.2	6.1	1.9	1.2	1.0	0.7	0.3	0.2	0.2	0.0	0.0
82.5°	2.2	3.4	1.4	1.0	0.8	0.5	0.3	0.0	0.0	0.0	0.0
85°	1.5	1.7	1.0	0.8	0.7	0.5	0.3	0.0	0.0	0.0	0.0
87.5°	1.2	1.2	1.0	0.8	0.7	0.5	0.2	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)