

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: P671579

Luminaire Tested: **CCP-SA-1B-830-U-SL4**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671579  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1B-830-U-SL4  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ SL4 distribution lens  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

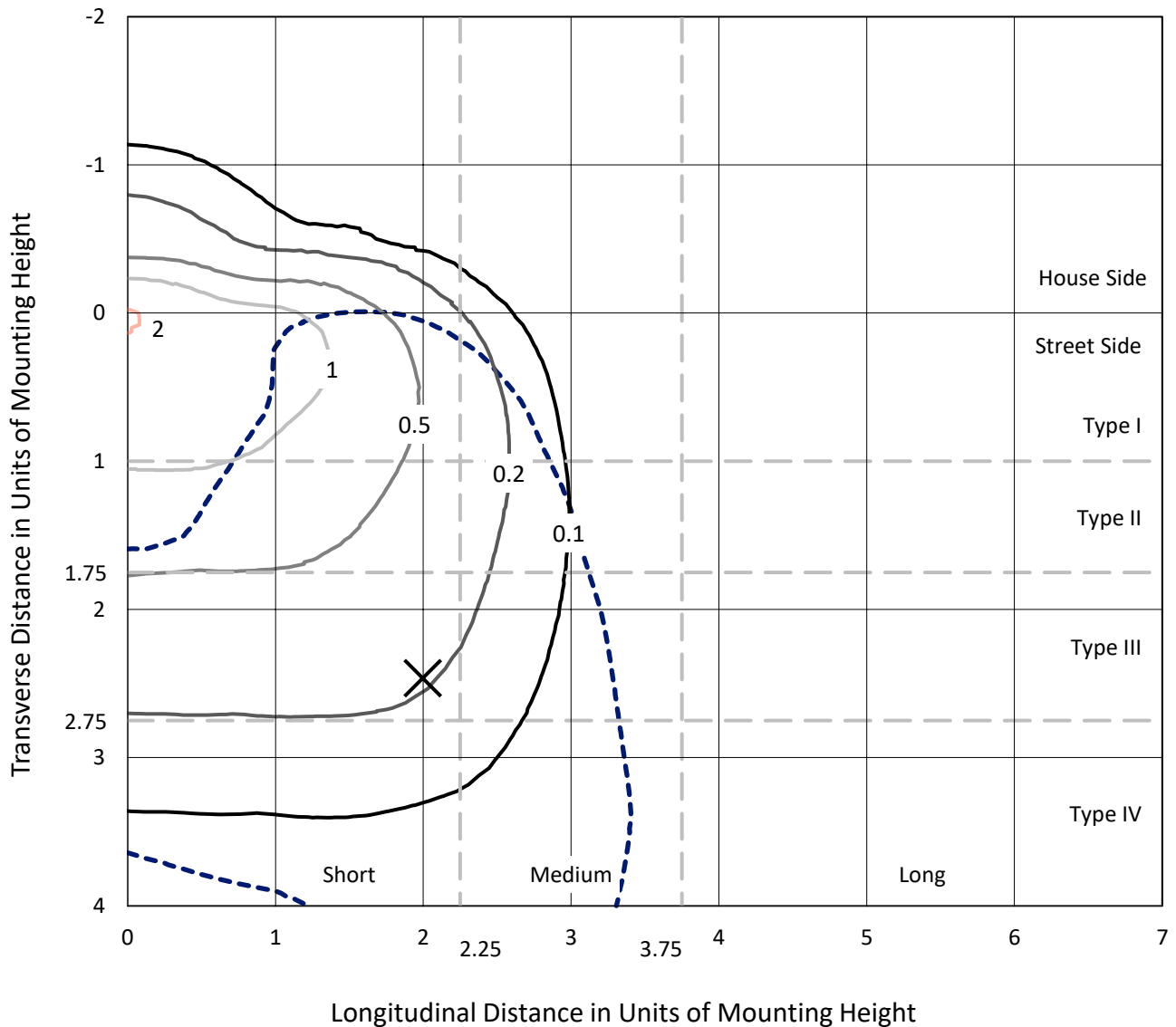
Lumens per Lamp: N/A  
Luminaire Lumens: 2689.1 lumens  
Efficiency: N/A  
Efficacy: 112.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1

Input Watts (W): 24  
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

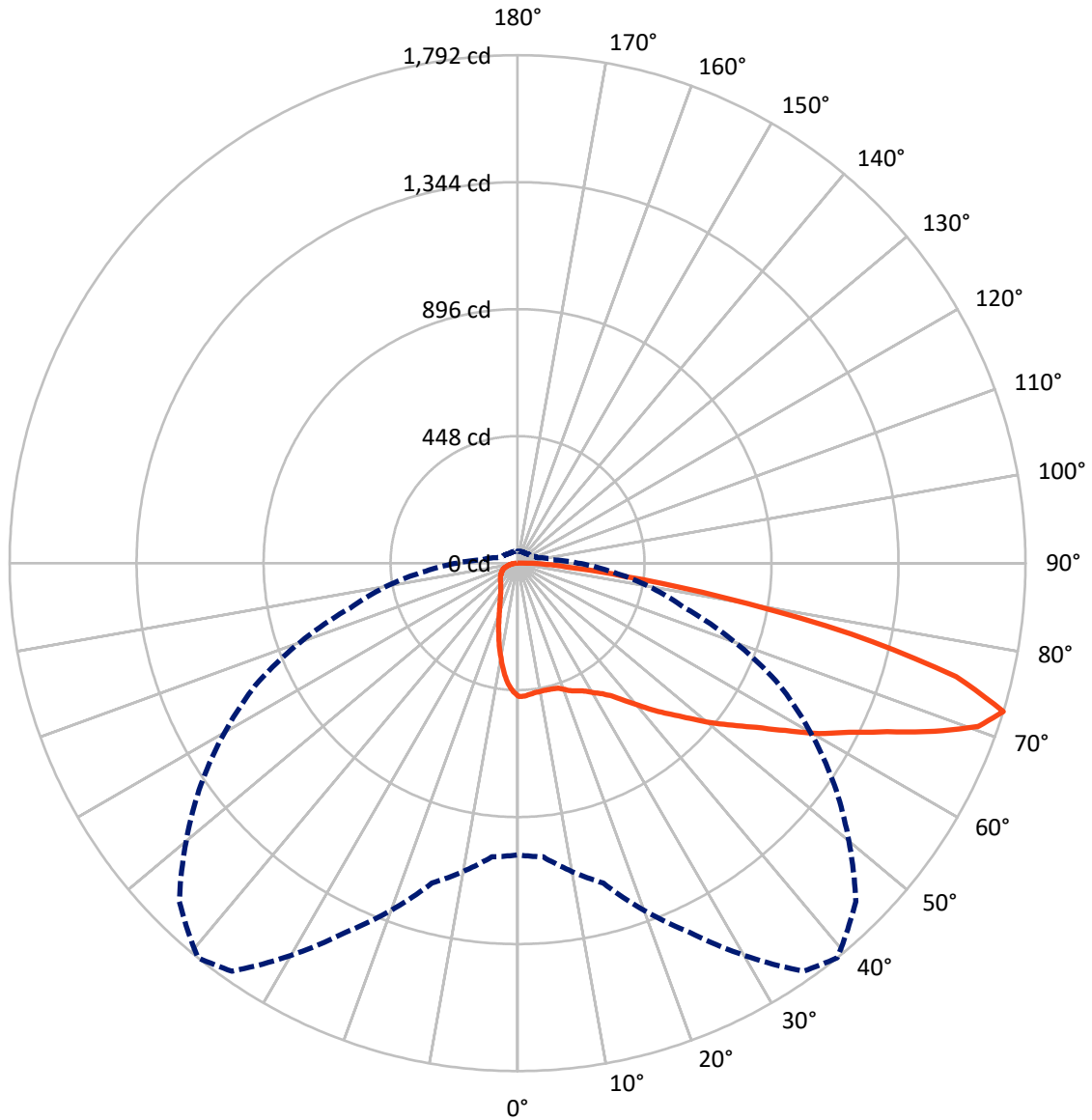
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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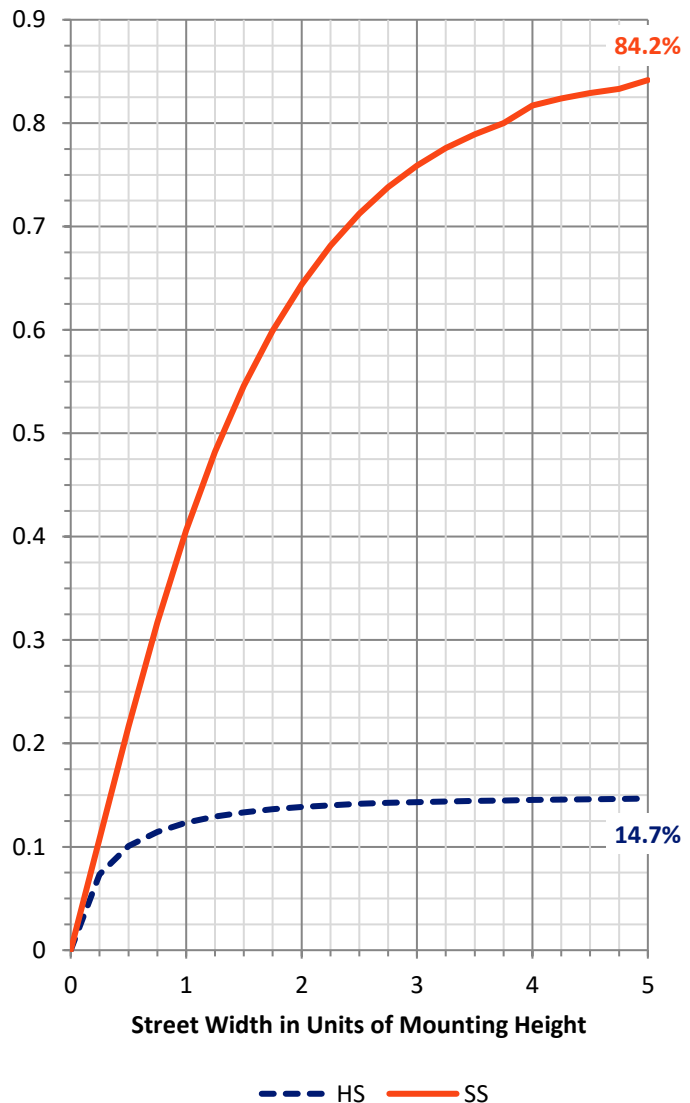
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	399.7	0.0	399.7
	% Fixture	14.9	0.0	14.9
<b>Street Side</b>	Lumens	2289.5	0.0	2289.5
	% Fixture	85.1	0.0	85.1
<b>Total</b>	Lumens	2689.1	0.0	2689.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.6	1.5
10°-20°	106.2	3.9
20°-30°	161.7	6.0
30°-40°	236.6	8.8
40°-50°	362.2	13.5
50°-60°	531.2	19.8
60°-70°	677.5	25.2
70°-80°	489.5	18.2
80°-90°	82.6	3.1
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°	2689.1	100.0
0°-180°	2689.1	100.0



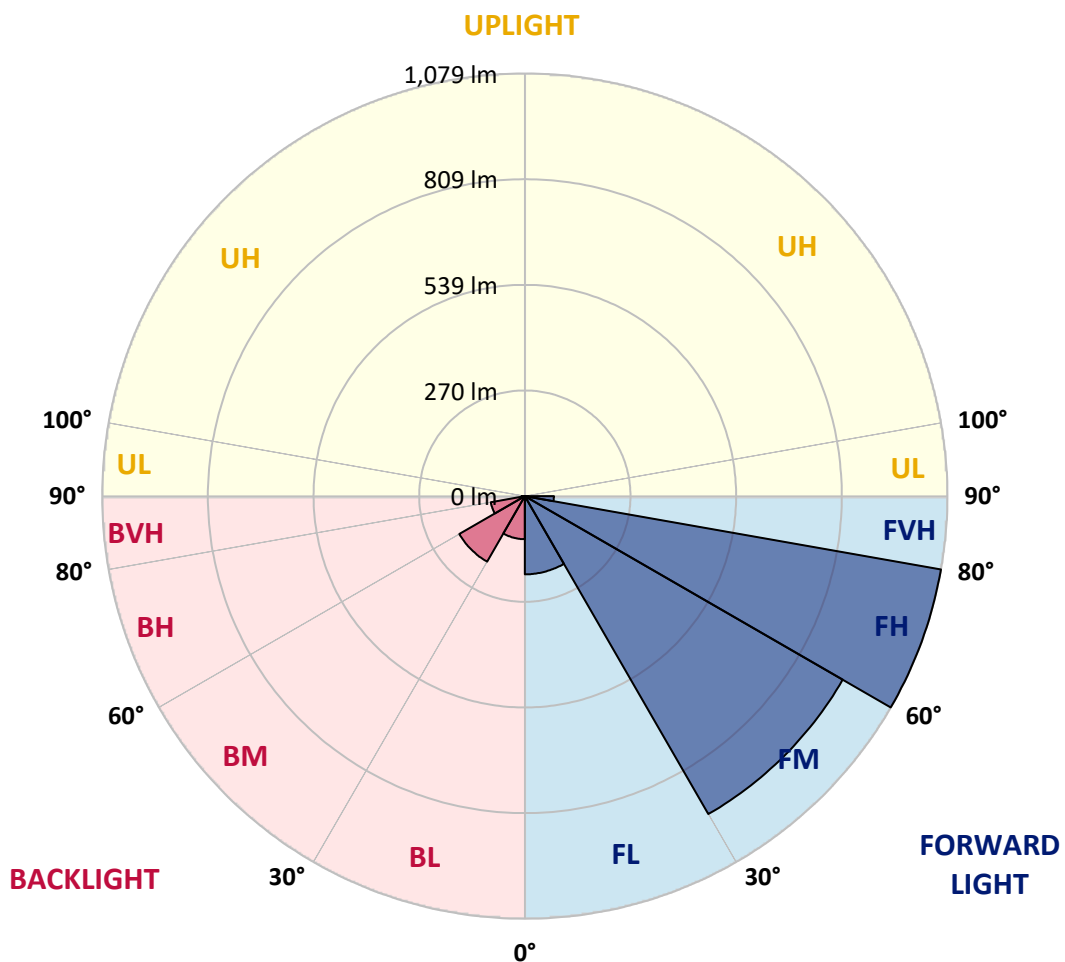
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	199.6	7.4			
FM (30°-60°)	937.0	34.8			
FH (60°-80°)	1078.7	40.1			G1/1800
FVH (80°-90°)	74.2	2.8			G1/100
BL (0°-30°)	109.9	4.1	B0/110		
BM (30°-60°)	193.1	7.2	B0/220		
BH (60°-80°)	88.3	3.3	B0/110		G0/110
BVH (80°-90°)	8.4	0.3			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7
2.5°	477.8	478.8	476.8	474.8	473.7	469.7	473.7	471.7	469.7	469.7	469.7
5°	471.7	472.7	472.7	470.7	471.7	464.7	463.6	464.7	461.6	459.6	458.6
7.5°	462.6	464.7	468.7	467.7	463.6	460.6	461.6	460.6	455.6	452.5	444.5
10°	455.6	457.6	459.6	461.6	460.6	459.6	458.6	454.6	453.5	446.5	438.4
12.5°	448.5	448.5	449.5	457.6	458.6	458.6	452.5	452.5	449.5	448.5	436.4
15°	441.4	444.5	452.5	454.6	458.6	460.6	457.6	457.6	452.5	445.5	436.4
17.5°	443.4	448.5	456.6	461.6	463.6	463.6	467.7	464.7	457.6	453.5	444.5
20°	453.5	454.6	464.7	473.7	475.8	475.8	471.7	468.7	463.6	456.6	444.5
22.5°	459.6	466.7	478.8	483.8	489.9	489.9	484.9	477.8	470.7	463.6	450.5
25°	485.9	486.9	491.9	500.0	503.0	499.0	493.9	485.9	476.8	469.7	457.6
27.5°	504.1	509.1	515.2	519.2	514.2	511.1	507.1	498.0	490.9	484.9	467.7
30°	537.4	531.3	535.4	537.4	528.3	530.3	519.2	511.1	503.0	503.0	483.8
32.5°	557.6	562.6	558.6	557.6	550.5	549.5	542.4	533.3	528.3	534.4	508.1
35°	592.9	589.9	589.9	588.9	580.8	575.8	575.8	559.6	564.7	577.8	545.5
37.5°	611.1	610.1	616.2	621.2	613.1	616.2	613.1	606.1	608.1	631.3	591.9
40°	629.3	636.4	648.5	650.5	655.6	659.6	657.6	656.6	664.7	702.0	654.6
42.5°	646.5	652.5	670.7	686.9	699.0	712.1	713.1	713.1	739.4	792.9	730.3
45°	668.7	673.8	699.0	731.3	751.5	760.6	768.7	777.8	813.1	876.8	811.1
47.5°	699.0	703.0	733.3	773.8	813.1	818.2	834.4	844.5	898.0	962.6	894.0
50°	742.4	739.4	763.7	822.2	860.6	884.9	908.1	926.3	978.8	1049.5	958.6
52.5°	777.8	777.8	796.0	873.8	926.3	949.5	973.8	999.0	1059.6	1136.4	1011.1
55°	838.4	832.3	843.5	924.3	1000.0	1022.2	1068.7	1089.9	1148.5	1201.0	1055.6
57.5°	879.8	882.8	896.0	990.9	1086.9	1114.2	1160.6	1175.8	1227.3	1268.7	1087.9
60°	934.4	924.3	952.5	1064.7	1182.9	1221.2	1259.6	1268.7	1307.1	1312.1	1103.1
62.5°	986.9	984.9	1009.1	1138.4	1285.9	1313.2	1352.6	1362.7	1378.8	1346.5	1081.8
65°	1019.2	1032.3	1077.8	1219.2	1403.1	1433.4	1472.8	1452.6	1434.4	1316.2	977.8
67.5°	1063.7	1069.7	1139.4	1307.1	1538.4	1583.9	1618.2	1538.4	1403.1	1191.9	823.2
70°	1073.8	1089.9	1180.8	1399.0	1677.8	1724.3	1726.3	1509.1	1288.9	969.7	597.0
72.5°	1029.3	1040.4	1168.7	1437.4	1757.6	1792.0	1687.9	1364.7	1021.2	611.1	325.3
75°	865.7	897.0	1017.2	1319.2	1611.1	1598.0	1430.3	1041.4	613.1	270.7	137.4
77.5°	603.0	604.1	729.3	959.6	1206.1	1203.1	1020.2	604.1	262.6	109.1	80.8
80°	267.7	286.9	362.6	517.2	732.3	732.3	595.0	300.0	131.3	70.7	55.6
82.5°	157.6	163.6	193.9	241.4	356.6	375.8	284.9	200.0	89.9	44.4	34.3
85°	116.2	126.3	144.4	145.5	168.7	171.7	157.6	173.7	61.6	24.2	28.3
87.5°	86.9	92.9	115.2	96.0	89.9	84.9	97.0	177.8	23.2	12.1	9.1
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°	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7	470.7
2.5°	465.7	465.7	463.6	459.6	459.6	451.5	453.5	455.6	450.5	450.5	451.5
5°	458.6	454.6	449.5	443.4	439.4	428.3	426.3	419.2	418.2	416.2	413.1
7.5°	444.5	438.4	429.3	420.2	407.1	397.0	384.9	374.8	370.7	367.7	366.7
10°	431.3	430.3	415.2	397.0	376.8	357.6	339.4	326.3	318.2	313.1	312.1
12.5°	431.3	423.2	402.0	376.8	347.5	319.2	296.0	277.8	266.7	258.6	255.6
15°	429.3	421.2	392.9	354.6	321.2	282.8	250.5	231.3	215.2	207.1	208.1
17.5°	431.3	419.2	379.8	338.4	291.9	250.5	212.1	188.9	172.7	166.7	165.7
20°	432.3	417.2	369.7	316.2	261.6	215.2	178.8	156.6	144.4	140.4	140.4
22.5°	430.3	411.1	354.6	289.9	235.4	185.9	155.6	136.4	128.3	123.2	125.3
25°	439.4	410.1	340.4	267.7	205.1	161.6	138.4	124.2	119.2	116.2	117.2
27.5°	441.4	410.1	329.3	242.4	178.8	143.4	125.3	116.2	112.1	110.1	109.1
30°	449.5	412.1	316.2	217.2	157.6	129.3	115.2	110.1	107.1	106.1	106.1
32.5°	471.7	418.2	302.0	196.0	139.4	117.2	108.1	104.0	102.0	101.0	102.0
35°	498.0	434.4	286.9	173.7	126.3	109.1	102.0	99.0	98.0	98.0	98.0
37.5°	538.4	458.6	273.7	155.6	115.2	101.0	96.0	95.0	93.9	95.0	95.0
40°	584.9	484.9	261.6	141.4	107.1	96.0	90.9	90.9	89.9	90.9	91.9
42.5°	638.4	517.2	249.5	127.3	100.0	91.9	87.9	86.9	85.9	87.9	88.9
45°	712.1	561.6	241.4	119.2	95.0	87.9	83.8	83.8	82.8	82.8	84.9
47.5°	773.8	604.1	241.4	111.1	91.9	84.9	80.8	80.8	78.8	79.8	79.8
50°	825.3	640.4	246.5	109.1	87.9	81.8	78.8	76.8	75.8	75.8	75.8
52.5°	859.6	662.6	250.5	107.1	85.9	77.8	75.8	74.7	72.7	71.7	72.7
55°	894.0	677.8	251.5	107.1	82.8	73.7	71.7	71.7	69.7	68.7	68.7
57.5°	907.1	671.7	237.4	105.1	80.8	70.7	68.7	67.7	66.7	65.7	65.7
60°	901.0	649.5	206.1	100.0	78.8	68.7	64.6	64.6	64.6	62.6	63.6
62.5°	859.6	573.7	165.7	91.9	75.8	64.6	60.6	62.6	62.6	61.6	61.6
65°	750.5	473.7	134.3	84.9	71.7	61.6	57.6	60.6	61.6	60.6	59.6
67.5°	600.0	364.7	111.1	76.8	66.7	56.6	53.5	56.6	57.6	56.6	56.6
70°	412.1	235.4	89.9	68.7	59.6	51.5	48.5	50.5	50.5	51.5	51.5
72.5°	213.1	127.3	73.7	58.6	51.5	46.5	43.4	43.4	42.4	42.4	42.4
75°	106.1	86.9	61.6	49.5	43.4	39.4	37.4	35.4	35.4	35.4	35.4
77.5°	73.7	66.7	50.5	39.4	35.4	32.3	32.3	29.3	29.3	29.3	29.3
80°	55.6	52.5	38.4	30.3	27.3	25.3	25.3	24.2	24.2	23.2	23.2
82.5°	39.4	42.4	29.3	22.2	20.2	19.2	19.2	18.2	18.2	16.2	16.2
85°	31.3	35.4	22.2	16.2	15.2	13.1	13.1	12.1	12.1	11.1	10.1
87.5°	9.1	19.2	9.1	6.1	6.1	6.1	6.1	5.1	5.1	4.0	4.0
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)