

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: P671491

Luminaire Tested: **CCP-SA-1B-722-U-SL4**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671491  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1B-722-U-SL4  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ SL4 distribution lens  
Light Source: (16) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

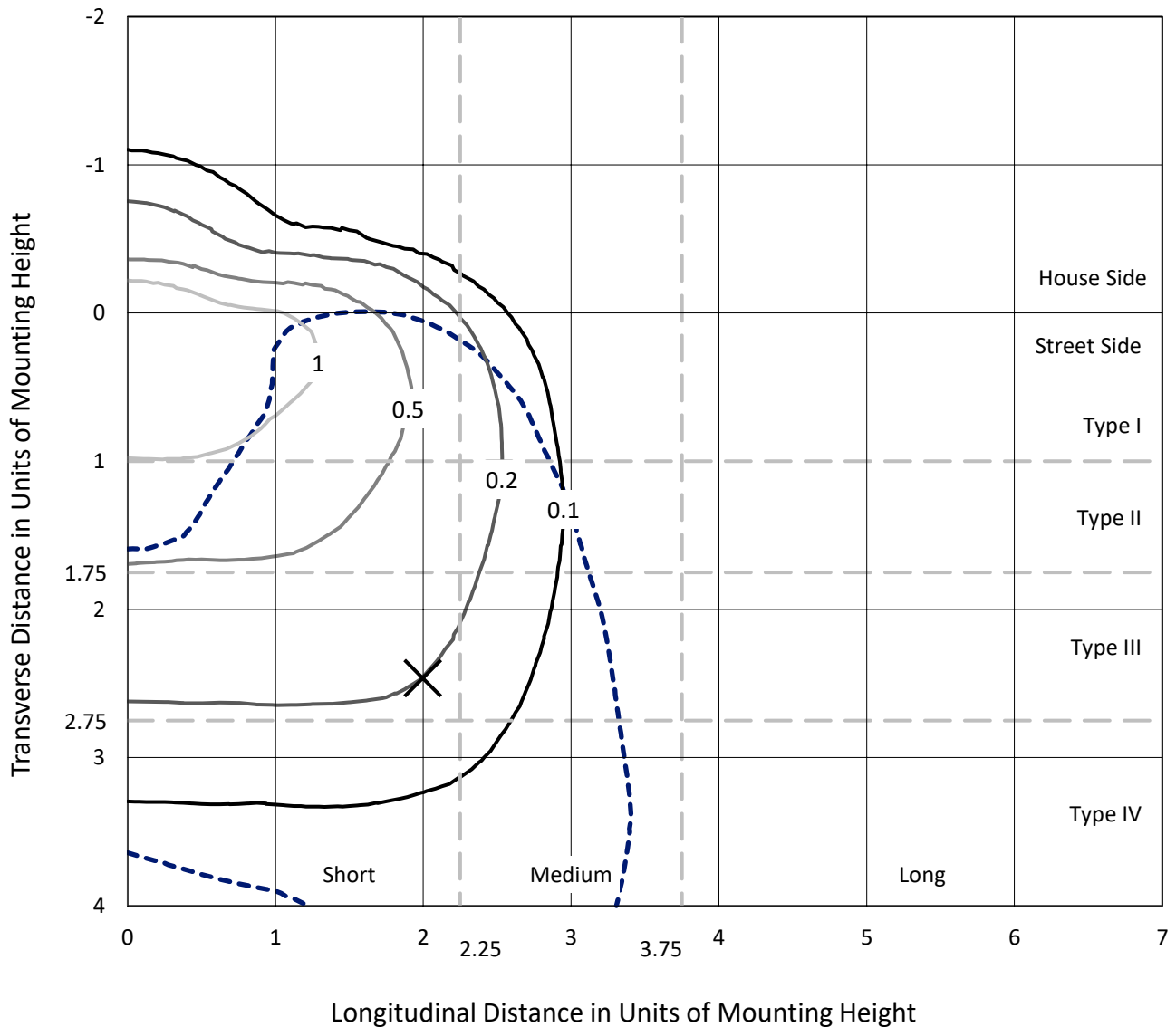
Lumens per Lamp: N/A  
Luminaire Lumens: 2492.8 lumens  
Efficiency: N/A  
Efficacy: 103.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1

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

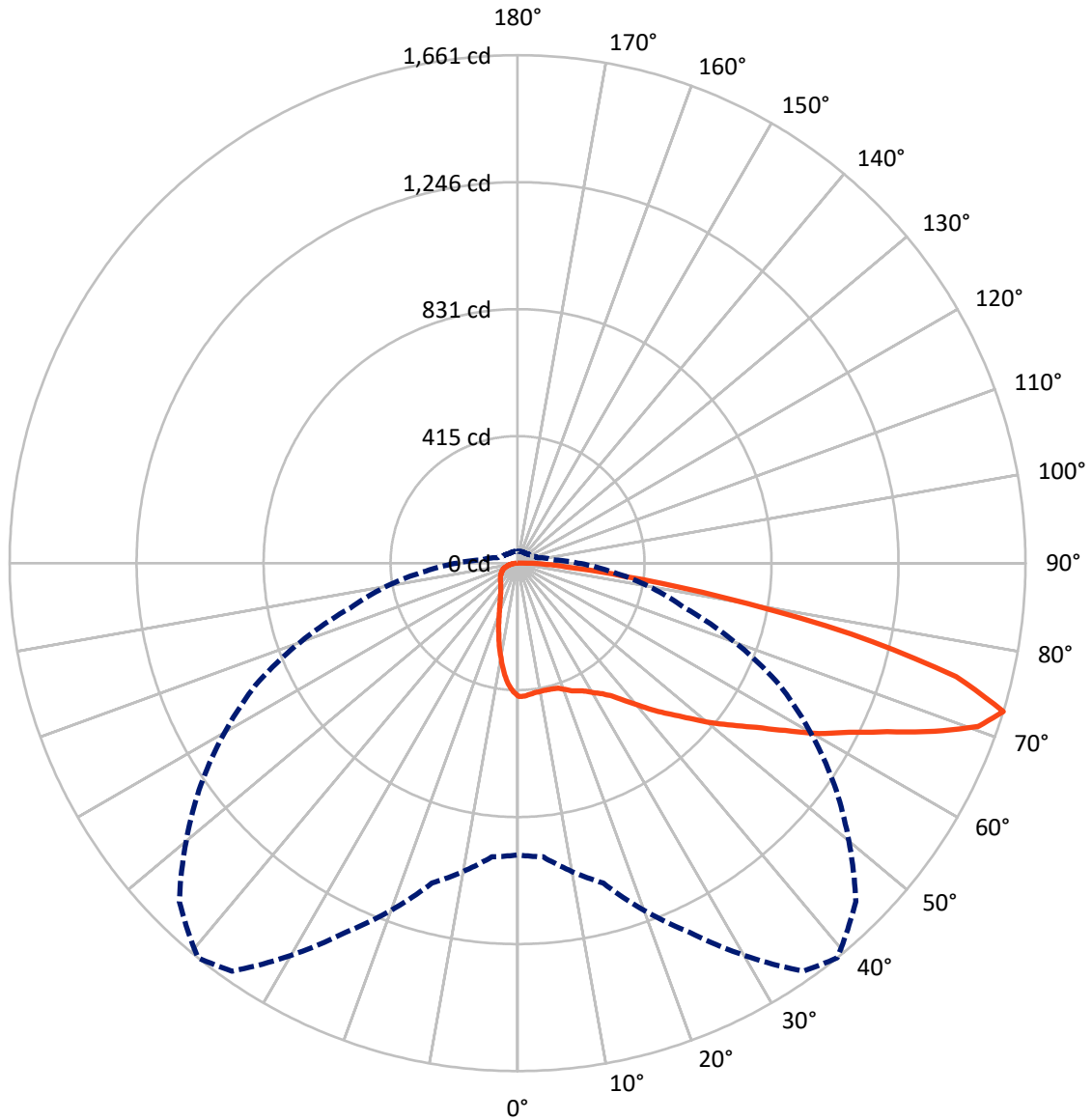
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.9 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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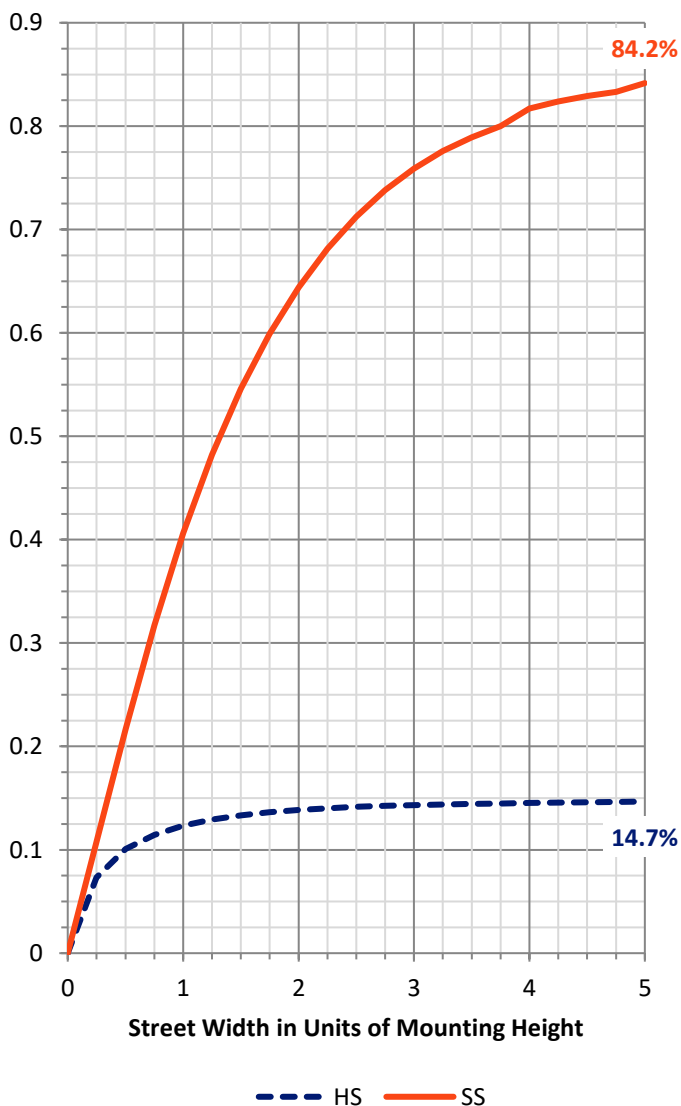
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	370.5	0.0	370.5
	% Fixture	14.9	0.0	14.9
<b>Street Side</b>	Lumens	2122.3	0.0	2122.3
	% Fixture	85.1	0.0	85.1
<b>Total</b>	Lumens	2492.8	0.0	2492.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.6	1.5
10°-20°	98.4	3.9
20°-30°	149.9	6.0
30°-40°	219.3	8.8
40°-50°	335.8	13.5
50°-60°	492.5	19.8
60°-70°	628.1	25.2
70°-80°	453.8	18.2
80°-90°	76.5	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°	2492.8	100.0
0°-180°	2492.8	100.0



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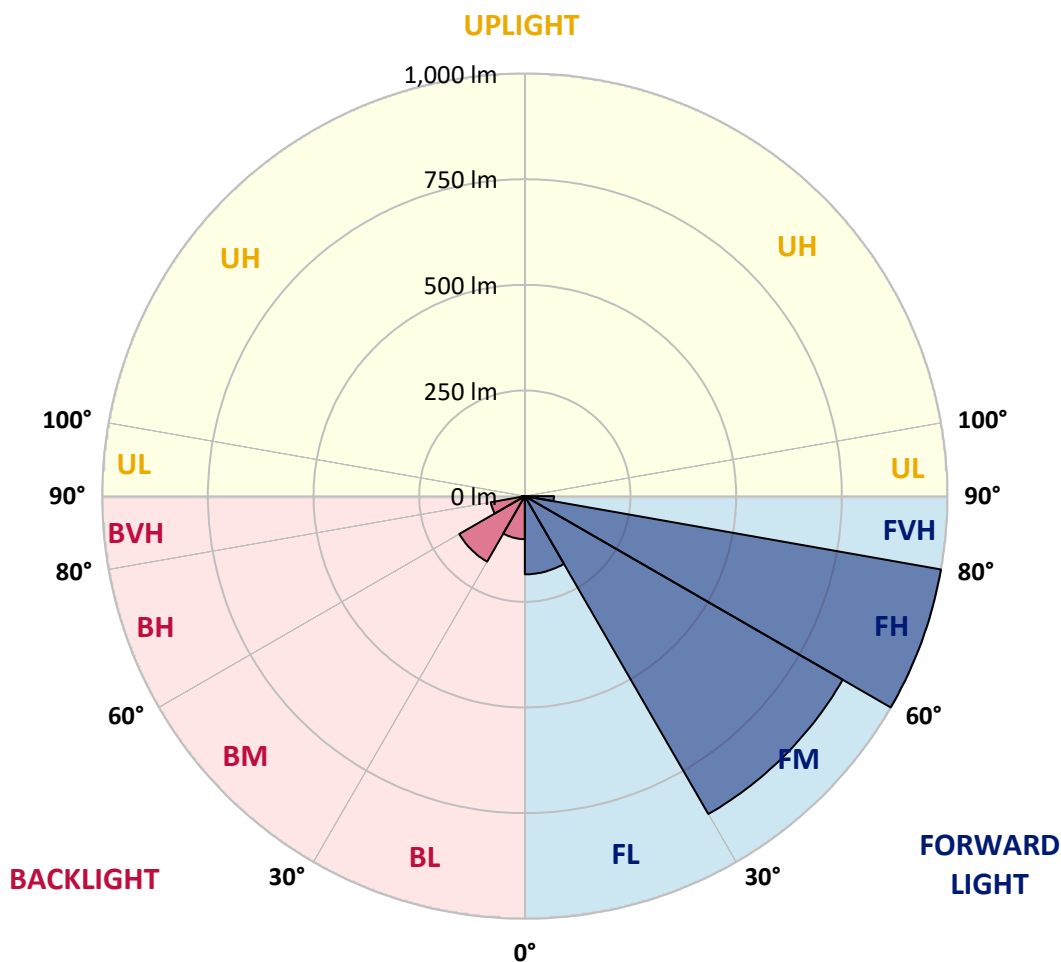
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	185.0	7.4			
FM (30°-60°)	868.6	34.8			
FH (60°-80°)	1000.0	40.1			G1/1800
FVH (80°-90°)	68.8	2.8			G1/100
BL (0°-30°)	101.9	4.1	B0/110		
BM (30°-60°)	179.0	7.2	B0/220		
BH (60°-80°)	81.9	3.3	B0/110		G0/110
BVH (80°-90°)	7.8	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°	436.4	436.4	436.4	436.4	436.4	436.4	436.4	436.4	436.4	436.4	436.4
2.5°	442.9	443.8	442.0	440.1	439.2	435.4	439.2	437.3	435.4	435.4	435.4
5°	437.3	438.2	438.2	436.4	437.3	430.7	429.8	430.7	427.9	426.1	425.1
7.5°	428.9	430.7	434.5	433.5	429.8	427.0	427.9	427.0	422.3	419.5	412.0
10°	422.3	424.2	426.1	427.9	427.0	426.1	425.1	421.4	420.4	413.9	406.4
12.5°	415.8	415.8	416.7	424.2	425.1	425.1	419.5	419.5	416.7	415.8	404.5
15°	409.2	412.0	419.5	421.4	425.1	427.0	424.2	424.2	419.5	412.9	404.5
17.5°	411.1	415.8	423.2	427.9	429.8	429.8	433.5	430.7	424.2	420.4	412.0
20°	420.4	421.4	430.7	439.2	441.0	441.0	437.3	434.5	429.8	423.2	412.0
22.5°	426.1	432.6	443.8	448.5	454.1	454.1	449.5	442.9	436.4	429.8	417.6
25°	450.4	451.3	456.0	463.5	466.3	462.6	457.9	450.4	442.0	435.4	424.2
27.5°	467.3	471.9	477.6	481.3	476.6	473.8	470.1	461.6	455.1	449.5	433.5
30°	498.2	492.5	496.3	498.2	489.7	491.6	481.3	473.8	466.3	466.3	448.5
32.5°	516.9	521.6	517.8	516.9	510.3	509.4	502.8	494.4	489.7	495.4	471.0
35°	549.7	546.9	546.9	545.9	538.4	533.7	533.7	518.8	523.4	535.6	505.7
37.5°	566.5	565.6	571.2	575.9	568.4	571.2	568.4	561.8	563.7	585.2	548.7
40°	583.4	589.9	601.2	603.0	607.7	611.5	609.6	608.7	616.1	650.8	606.8
42.5°	599.3	604.9	621.8	636.7	648.0	660.2	661.1	661.1	685.4	735.1	677.0
45°	619.9	624.6	648.0	677.9	696.7	705.1	712.6	721.0	753.8	812.8	751.9
47.5°	648.0	651.7	679.8	717.3	753.8	758.5	773.5	782.8	832.5	892.4	828.7
50°	688.2	685.4	707.9	762.2	797.8	820.3	841.8	858.7	907.4	972.9	888.6
52.5°	721.0	721.0	737.9	810.0	858.7	880.2	902.7	926.1	982.3	1053.4	937.3
55°	777.2	771.6	781.9	856.8	927.0	947.6	990.7	1010.4	1064.7	1113.4	978.5
57.5°	815.6	818.4	830.6	918.6	1007.6	1032.8	1075.9	1090.0	1137.7	1176.1	1008.5
60°	866.2	856.8	883.0	987.0	1096.5	1132.1	1167.7	1176.1	1211.7	1216.4	1022.5
62.5°	914.9	913.0	935.5	1055.3	1192.0	1217.3	1253.8	1263.2	1278.2	1248.2	1002.9
65°	944.8	957.0	999.1	1130.2	1300.6	1328.7	1365.3	1346.5	1329.7	1220.1	906.4
67.5°	986.0	991.6	1056.2	1211.7	1426.1	1468.3	1500.1	1426.1	1300.6	1104.9	763.2
70°	995.4	1010.4	1094.6	1296.9	1555.3	1598.4	1600.3	1399.0	1194.8	898.9	553.4
72.5°	954.2	964.5	1083.4	1332.5	1629.3	1661.2	1564.7	1265.1	946.7	566.5	301.5
75°	802.5	831.5	942.9	1222.9	1493.5	1481.4	1325.9	965.4	568.4	251.0	127.3
77.5°	559.0	560.0	676.1	889.6	1118.1	1115.2	945.8	560.0	243.5	101.1	74.9
80°	248.1	265.9	336.2	479.4	678.9	678.9	551.5	278.1	121.7	65.5	51.5
82.5°	146.1	151.7	179.8	223.8	330.5	348.3	264.1	185.4	83.3	41.2	31.8
85°	107.7	117.0	133.9	134.8	156.4	159.2	146.1	161.1	57.1	22.5	26.2
87.5°	80.5	86.1	106.7	89.0	83.3	78.7	89.9	164.8	21.5	11.2	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	436.4	436.4	436.4	436.4	436.4	436.4	436.4	436.4	436.4	436.4	436.4
2.5°	431.7	431.7	429.8	426.1	426.1	418.6	420.4	422.3	417.6	417.6	418.6
5°	425.1	421.4	416.7	411.1	407.3	397.0	395.2	388.6	387.7	385.8	383.0
7.5°	412.0	406.4	398.0	389.5	377.4	368.0	356.8	347.4	343.7	340.8	339.9
10°	399.8	398.9	384.9	368.0	349.3	331.5	314.6	302.5	295.0	290.3	289.3
12.5°	399.8	392.3	372.7	349.3	322.1	295.9	274.4	257.5	247.2	239.7	236.9
15°	398.0	390.5	364.3	328.7	297.8	262.2	232.2	214.4	199.5	192.0	192.9
17.5°	399.8	388.6	352.1	313.7	270.6	232.2	196.6	175.1	160.1	154.5	153.6
20°	400.8	386.7	342.7	293.1	242.5	199.5	165.7	145.1	133.9	130.2	130.2
22.5°	398.9	381.1	328.7	268.7	218.2	172.3	144.2	126.4	118.9	114.2	116.1
25°	407.3	380.2	315.6	248.1	190.1	149.8	128.3	115.2	110.5	107.7	108.6
27.5°	409.2	380.2	305.3	224.7	165.7	133.0	116.1	107.7	103.9	102.1	101.1
30°	416.7	382.0	293.1	201.3	146.1	119.9	106.7	102.1	99.3	98.3	98.3
32.5°	437.3	387.7	280.0	181.7	129.2	108.6	100.2	96.4	94.6	93.6	94.6
35°	461.6	402.6	265.9	161.1	117.0	101.1	94.6	91.8	90.8	90.8	90.8
37.5°	499.1	425.1	253.8	144.2	106.7	93.6	89.0	88.0	87.1	88.0	88.0
40°	542.2	449.5	242.5	131.1	99.3	89.0	84.3	84.3	83.3	84.3	85.2
42.5°	591.8	479.4	231.3	118.0	92.7	85.2	81.5	80.5	79.6	81.5	82.4
45°	660.2	520.6	223.8	110.5	88.0	81.5	77.7	77.7	76.8	76.8	78.7
47.5°	717.3	560.0	223.8	103.0	85.2	78.7	74.9	74.9	73.0	74.0	74.0
50°	765.0	593.7	228.5	101.1	81.5	75.8	73.0	71.2	70.2	70.2	70.2
52.5°	796.9	614.3	232.2	99.3	79.6	72.1	70.2	69.3	67.4	66.5	67.4
55°	828.7	628.3	233.2	99.3	76.8	68.4	66.5	66.5	64.6	63.7	63.7
57.5°	840.9	622.7	220.1	97.4	74.9	65.5	63.7	62.7	61.8	60.9	60.9
60°	835.3	602.1	191.0	92.7	73.0	63.7	59.9	59.9	59.9	58.1	59.0
62.5°	796.9	531.9	153.6	85.2	70.2	59.9	56.2	58.1	58.1	57.1	57.1
65°	695.7	439.2	124.5	78.7	66.5	57.1	53.4	56.2	57.1	56.2	55.2
67.5°	556.2	338.0	103.0	71.2	61.8	52.4	49.6	52.4	53.4	52.4	52.4
70°	382.0	218.2	83.3	63.7	55.2	47.8	44.9	46.8	46.8	47.8	47.8
72.5°	197.6	118.0	68.4	54.3	47.8	43.1	40.3	40.3	39.3	39.3	39.3
75°	98.3	80.5	57.1	45.9	40.3	36.5	34.6	32.8	32.8	32.8	32.8
77.5°	68.4	61.8	46.8	36.5	32.8	30.0	30.0	27.2	27.2	27.2	27.2
80°	51.5	48.7	35.6	28.1	25.3	23.4	23.4	22.5	22.5	21.5	21.5
82.5°	36.5	39.3	27.2	20.6	18.7	17.8	17.8	16.9	16.9	15.0	15.0
85°	29.0	32.8	20.6	15.0	14.0	12.2	12.2	11.2	11.2	10.3	9.4
87.5°	8.4	17.8	8.4	5.6	5.6	5.6	5.6	4.7	4.7	3.7	3.7
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)