

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: P671569

Luminaire Tested: **CCP-SA-1C-827-U-SL4**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671569  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1C-827-U-SL4  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @615mA w/ SL4 distribution lens  
Light Source: (16) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3256.8 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

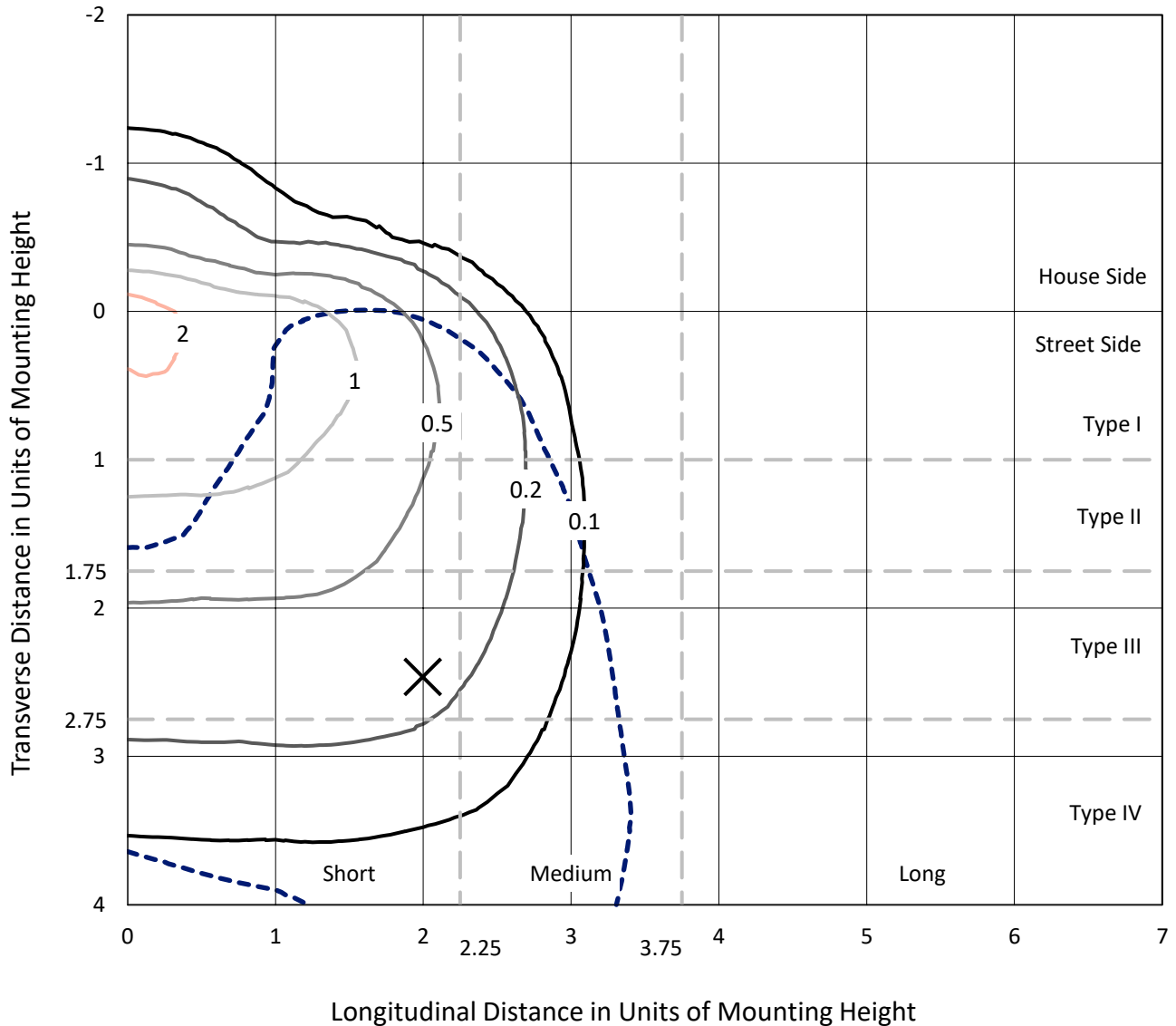
Input Watts (W): 32  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

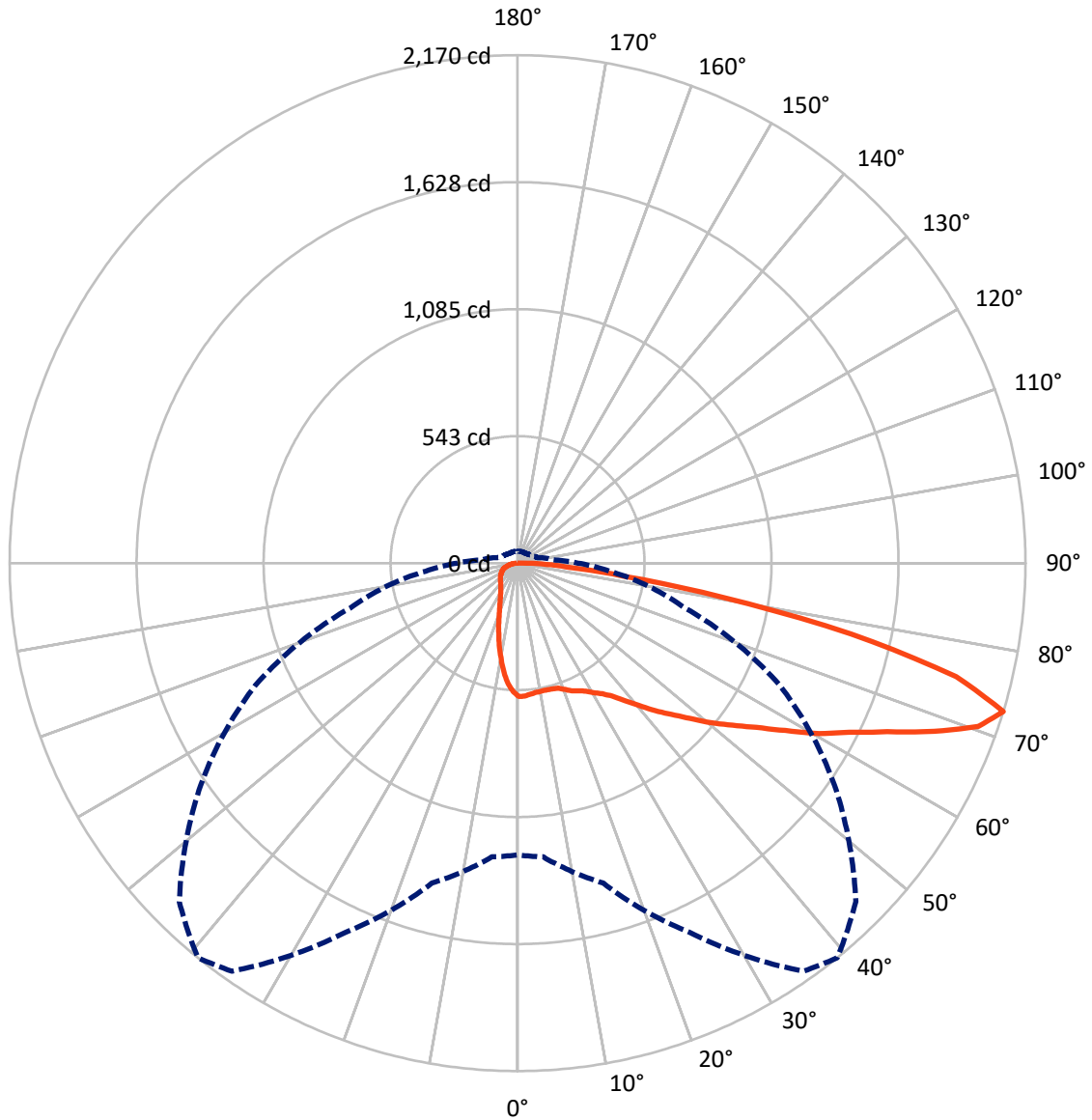
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.5 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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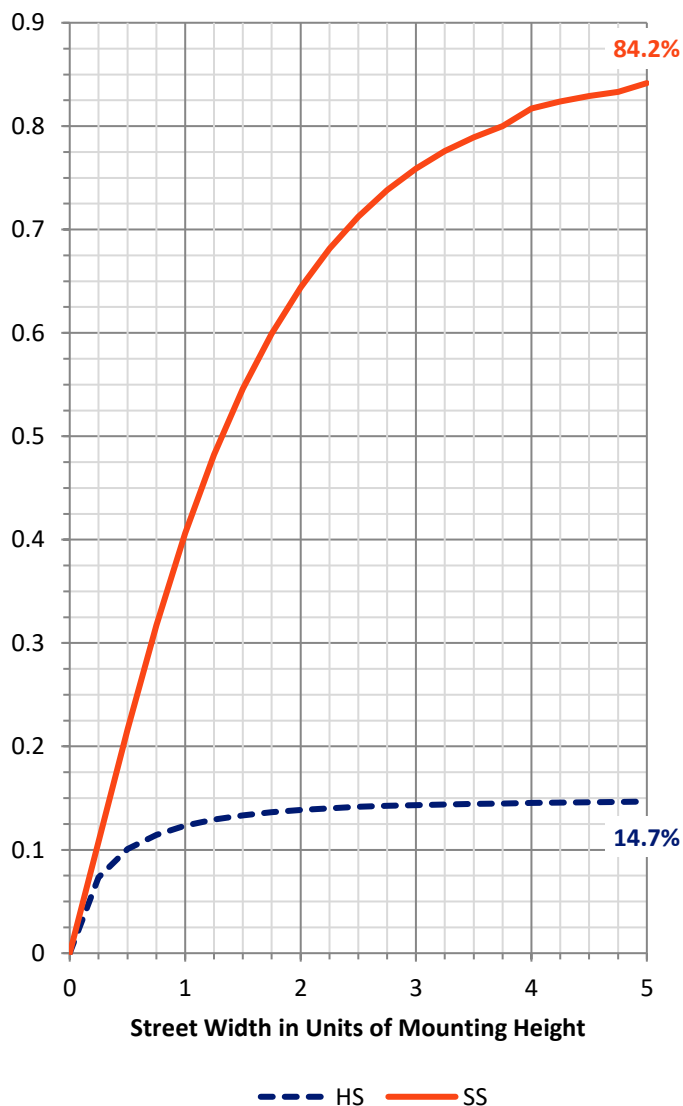
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	484.0	0.0	484.0
	% Fixture	14.9	0.0	14.9
<b>Street Side</b>	Lumens	2772.8	0.0	2772.8
	% Fixture	85.1	0.0	85.1
<b>Total</b>	Lumens	3256.8	0.0	3256.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.4	1.5
10°-20°	128.6	3.9
20°-30°	195.9	6.0
30°-40°	286.5	8.8
40°-50°	438.7	13.5
50°-60°	643.4	19.8
60°-70°	820.5	25.2
70°-80°	592.9	18.2
80°-90°	100.0	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°	3256.8	100.0
0°-180°	3256.8	100.0



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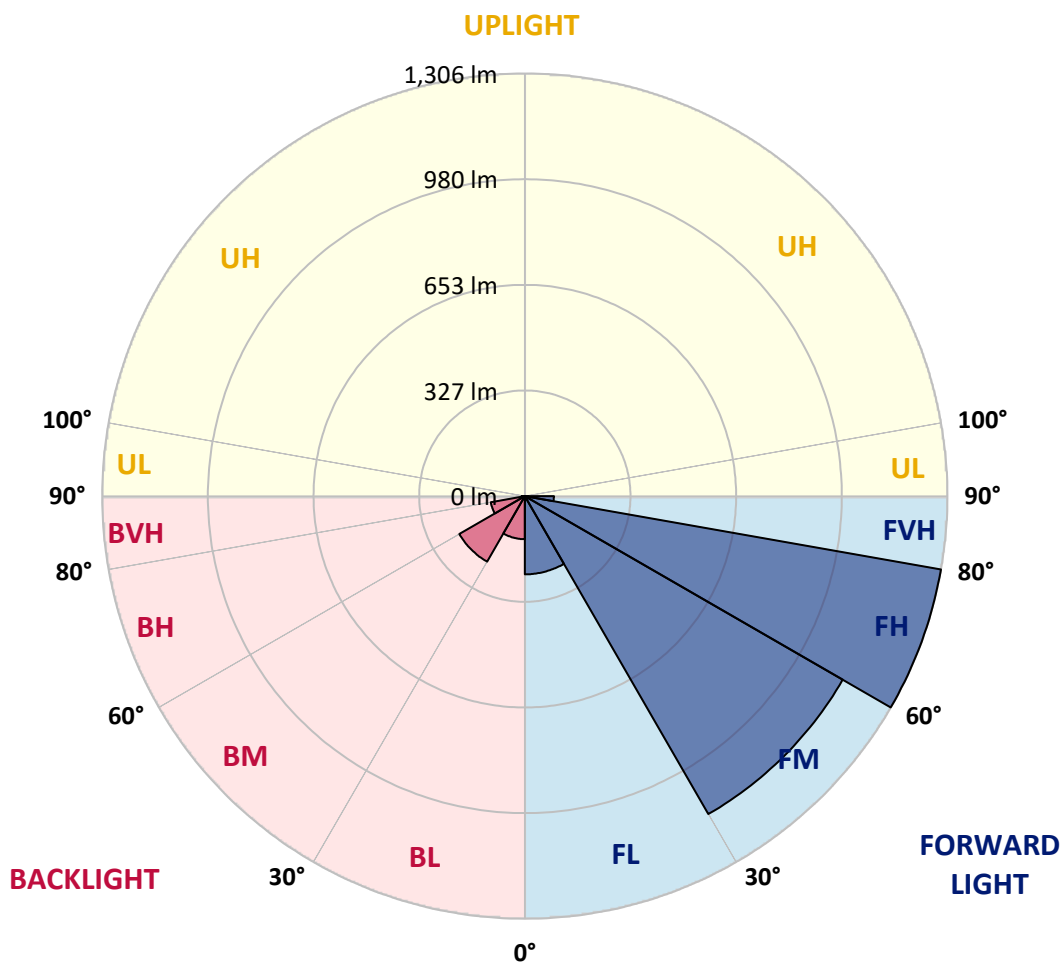
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	241.7	7.4			
FM (30°-60°)	1134.8	34.8			
FH (60°-80°)	1306.5	40.1			G1/1800
FVH (80°-90°)	89.9	2.8			G1/100
BL (0°-30°)	133.1	4.1	B1/500		
BM (30°-60°)	233.8	7.2	B1/1000		
BH (60°-80°)	106.9	3.3	B0/110		G0/110
BVH (80°-90°)	10.1	0.3			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1
2.5°	578.7	579.9	577.4	575.0	573.8	568.9	573.8	571.3	568.9	568.9	568.9
5°	571.3	572.5	572.5	570.1	571.3	562.8	561.5	562.8	559.1	556.6	555.4
7.5°	560.3	562.8	567.6	566.4	561.5	557.9	559.1	557.9	551.7	548.1	538.3
10°	551.7	554.2	556.6	559.1	557.9	556.6	555.4	550.5	549.3	540.7	530.9
12.5°	543.2	543.2	544.4	554.2	555.4	555.4	548.1	548.1	544.4	543.2	528.5
15°	534.6	538.3	548.1	550.5	555.4	557.9	554.2	554.2	548.1	539.5	528.5
17.5°	537.1	543.2	553.0	559.1	561.5	561.5	566.4	562.8	554.2	549.3	538.3
20°	549.3	550.5	562.8	573.8	576.2	576.2	571.3	567.6	561.5	553.0	538.3
22.5°	556.6	565.2	579.9	586.0	593.3	593.3	587.2	578.7	570.1	561.5	545.6
25°	588.4	589.7	595.8	605.6	609.2	604.3	598.2	588.4	577.4	568.9	554.2
27.5°	610.5	616.6	623.9	628.8	622.7	619.0	614.1	603.1	594.6	587.2	566.4
30°	650.8	643.5	648.4	650.8	639.8	642.3	628.8	619.0	609.2	609.2	586.0
32.5°	675.3	681.4	676.5	675.3	666.7	665.5	657.0	645.9	639.8	647.2	615.4
35°	718.1	714.5	714.5	713.2	703.4	697.3	697.3	677.7	683.9	699.8	660.6
37.5°	740.1	738.9	746.3	752.4	742.6	746.3	742.6	734.0	736.5	764.6	716.9
40°	762.2	770.7	785.4	787.9	794.0	798.9	796.4	795.2	805.0	850.2	792.7
42.5°	783.0	790.3	812.3	831.9	846.6	862.5	863.7	863.7	895.5	960.3	884.5
45°	809.9	816.0	846.6	885.7	910.2	921.2	931.0	942.0	984.8	1061.9	982.4
47.5°	846.6	851.5	888.2	937.1	984.8	990.9	1010.5	1022.7	1087.6	1165.9	1082.7
50°	899.2	895.5	924.9	995.8	1042.3	1071.7	1099.8	1121.8	1185.4	1271.1	1161.0
52.5°	942.0	942.0	964.0	1058.2	1121.8	1150.0	1179.3	1209.9	1283.3	1376.3	1224.6
55°	1015.4	1008.1	1021.5	1119.4	1211.1	1238.1	1294.3	1320.0	1391.0	1454.6	1278.4
57.5°	1065.6	1069.2	1085.1	1200.1	1316.3	1349.4	1405.7	1424.0	1486.4	1536.6	1317.6
60°	1131.6	1119.4	1153.6	1289.4	1432.6	1479.1	1525.5	1536.6	1583.0	1589.2	1335.9
62.5°	1195.2	1192.8	1222.2	1378.7	1557.4	1590.4	1638.1	1650.3	1669.9	1630.8	1310.2
65°	1234.4	1250.3	1305.3	1476.6	1699.3	1736.0	1783.7	1759.2	1737.2	1594.1	1184.2
67.5°	1288.2	1295.6	1380.0	1583.0	1863.2	1918.2	1959.8	1863.2	1699.3	1443.6	997.0
70°	1300.4	1320.0	1430.1	1694.4	2032.0	2088.3	2090.7	1827.7	1561.0	1174.4	723.0
72.5°	1246.6	1260.1	1415.4	1740.9	2128.7	2170.3	2044.3	1652.8	1236.8	740.1	393.9
75°	1048.4	1086.4	1231.9	1597.7	1951.3	1935.4	1732.3	1261.3	742.6	327.9	166.4
77.5°	730.4	731.6	883.3	1162.2	1460.7	1457.0	1235.6	731.6	318.1	132.1	97.9
80°	324.2	347.4	439.2	626.4	886.9	886.9	720.6	363.3	159.0	85.6	67.3
82.5°	190.8	198.2	234.9	292.4	431.9	455.1	345.0	242.2	108.9	53.8	41.6
85°	140.7	152.9	174.9	176.2	204.3	208.0	190.8	210.4	74.6	29.4	34.3
87.5°	105.2	112.6	139.5	116.2	108.9	102.8	117.4	215.3	28.1	14.7	11.0
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°	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1	570.1
2.5°	564.0	564.0	561.5	556.6	556.6	546.8	549.3	551.7	545.6	545.6	546.8
5°	555.4	550.5	544.4	537.1	532.2	518.7	516.3	507.7	506.5	504.0	500.4
7.5°	538.3	530.9	519.9	508.9	493.0	480.8	466.1	453.9	449.0	445.3	444.1
10°	522.4	521.2	502.8	480.8	456.3	433.1	411.1	395.1	385.4	379.2	378.0
12.5°	522.4	512.6	486.9	456.3	420.8	386.6	358.4	336.4	323.0	313.2	309.5
15°	519.9	510.1	475.9	429.4	389.0	342.5	303.4	280.2	260.6	250.8	252.0
17.5°	522.4	507.7	460.0	409.8	353.6	303.4	256.9	228.8	209.2	201.9	200.6
20°	523.6	505.3	447.8	382.9	316.9	260.6	216.5	189.6	174.9	170.0	170.0
22.5°	521.2	497.9	429.4	351.1	285.0	225.1	188.4	165.2	155.4	149.3	151.7
25°	532.2	496.7	412.3	324.2	248.3	195.7	167.6	150.5	144.4	140.7	141.9
27.5°	534.6	496.7	398.8	293.6	216.5	173.7	151.7	140.7	135.8	133.3	132.1
30°	544.4	499.1	382.9	263.0	190.8	156.6	139.5	133.3	129.7	128.5	128.5
32.5°	571.3	506.5	365.8	237.3	168.8	141.9	130.9	126.0	123.6	122.3	123.6
35°	603.1	526.1	347.4	210.4	152.9	132.1	123.6	119.9	118.7	118.7	118.7
37.5°	652.1	555.4	331.5	188.4	139.5	122.3	116.2	115.0	113.8	115.0	115.0
40°	708.3	587.2	316.9	171.3	129.7	116.2	110.1	110.1	108.9	110.1	111.3
42.5°	773.2	626.4	302.2	154.1	121.1	111.3	106.4	105.2	104.0	106.4	107.7
45°	862.5	680.2	292.4	144.4	115.0	106.4	101.5	101.5	100.3	100.3	102.8
47.5°	937.1	731.6	292.4	134.6	111.3	102.8	97.9	97.9	95.4	96.6	96.6
50°	999.5	775.6	298.5	132.1	106.4	99.1	95.4	93.0	91.8	91.8	91.8
52.5°	1041.1	802.5	303.4	129.7	104.0	94.2	91.8	90.5	88.1	86.9	88.1
55°	1082.7	820.9	304.6	129.7	100.3	89.3	86.9	86.9	84.4	83.2	83.2
57.5°	1098.6	813.5	287.5	127.2	97.9	85.6	83.2	82.0	80.7	79.5	79.5
60°	1091.2	786.6	249.6	121.1	95.4	83.2	78.3	78.3	78.3	75.8	77.1
62.5°	1041.1	694.9	200.6	111.3	91.8	78.3	73.4	75.8	75.8	74.6	74.6
65°	909.0	573.8	162.7	102.8	86.9	74.6	69.7	73.4	74.6	73.4	72.2
67.5°	726.7	441.6	134.6	93.0	80.7	68.5	64.8	68.5	69.7	68.5	68.5
70°	499.1	285.0	108.9	83.2	72.2	62.4	58.7	61.2	61.2	62.4	62.4
72.5°	258.1	154.1	89.3	71.0	62.4	56.3	52.6	52.6	51.4	51.4	51.4
75°	128.5	105.2	74.6	59.9	52.6	47.7	45.3	42.8	42.8	42.8	42.8
77.5°	89.3	80.7	61.2	47.7	42.8	39.1	39.1	35.5	35.5	35.5	35.5
80°	67.3	63.6	46.5	36.7	33.0	30.6	30.6	29.4	29.4	28.1	28.1
82.5°	47.7	51.4	35.5	26.9	24.5	23.2	23.2	22.0	22.0	19.6	19.6
85°	37.9	42.8	26.9	19.6	18.4	15.9	15.9	14.7	14.7	13.5	12.2
87.5°	11.0	23.2	11.0	7.3	7.3	7.3	7.3	6.1	6.1	4.9	4.9
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)