

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: P673777

Luminaire Tested: **CCP-SA-2A-850-U-SL2-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P673777  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2A-850-U-SL2-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @350mA w/ SL2 distribution lens and House Side Shield  
Light Source: (32) 5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

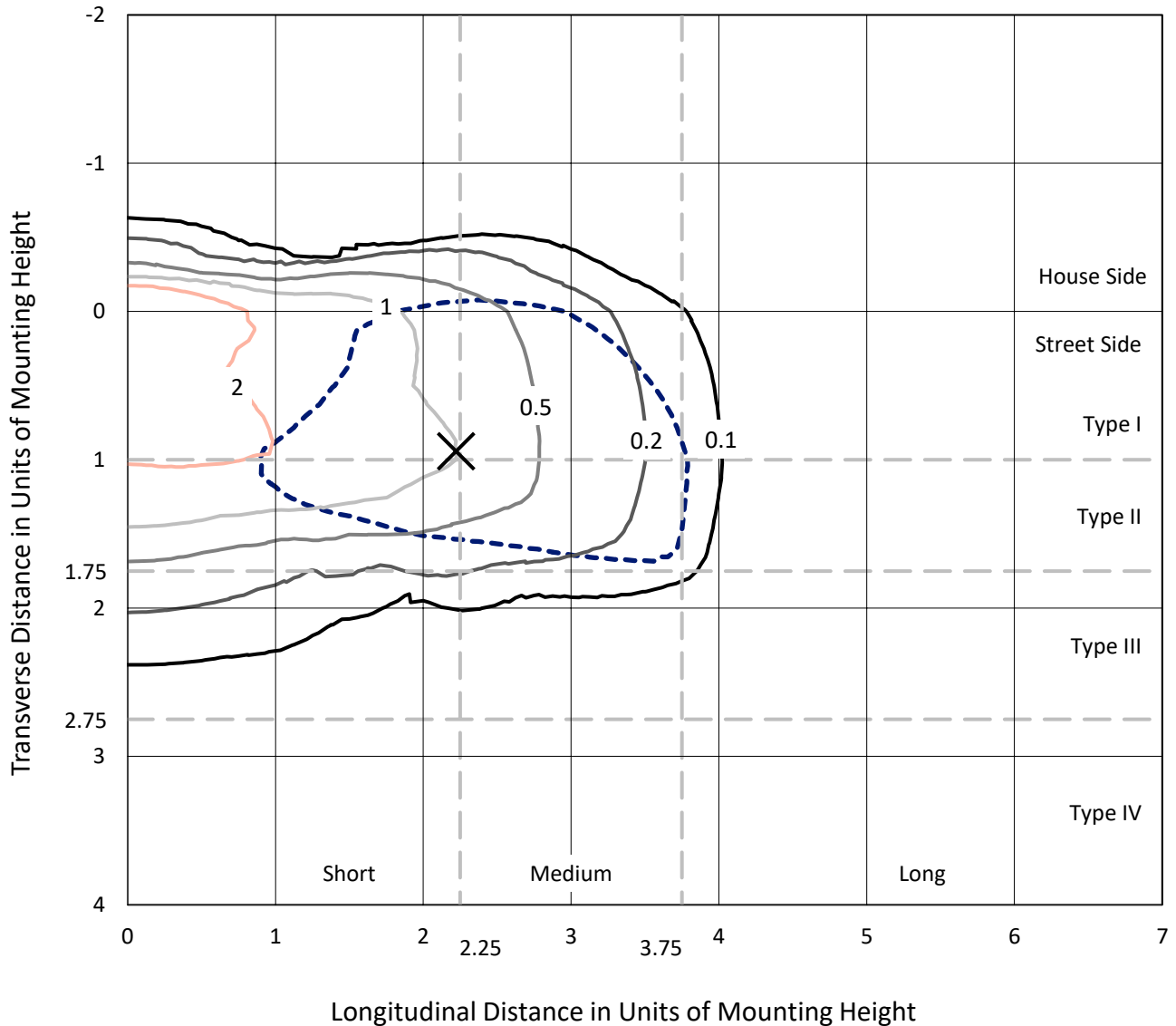
Lumens per Lamp: N/A  
Luminaire Lumens: 3839.5 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2  
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

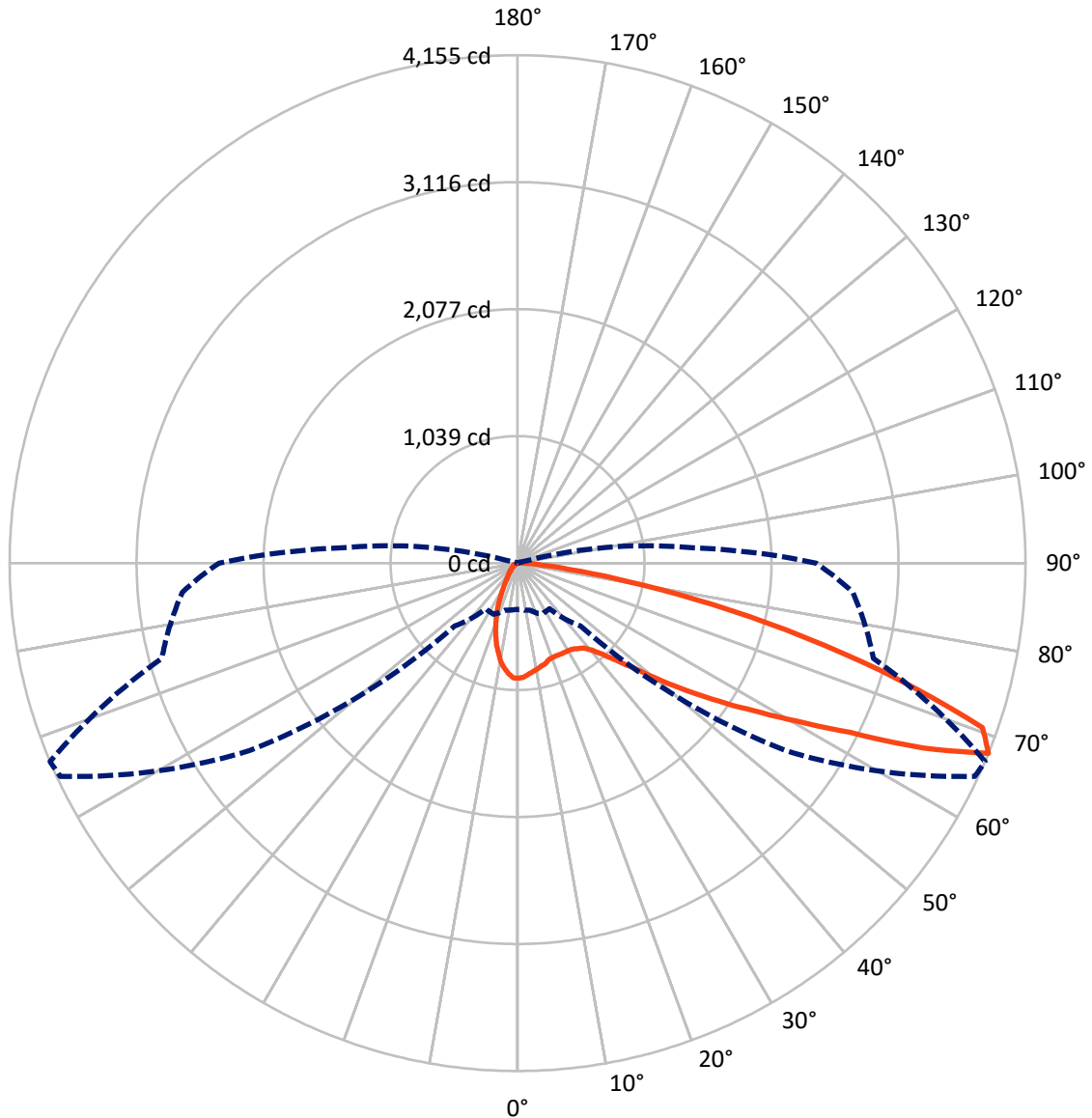
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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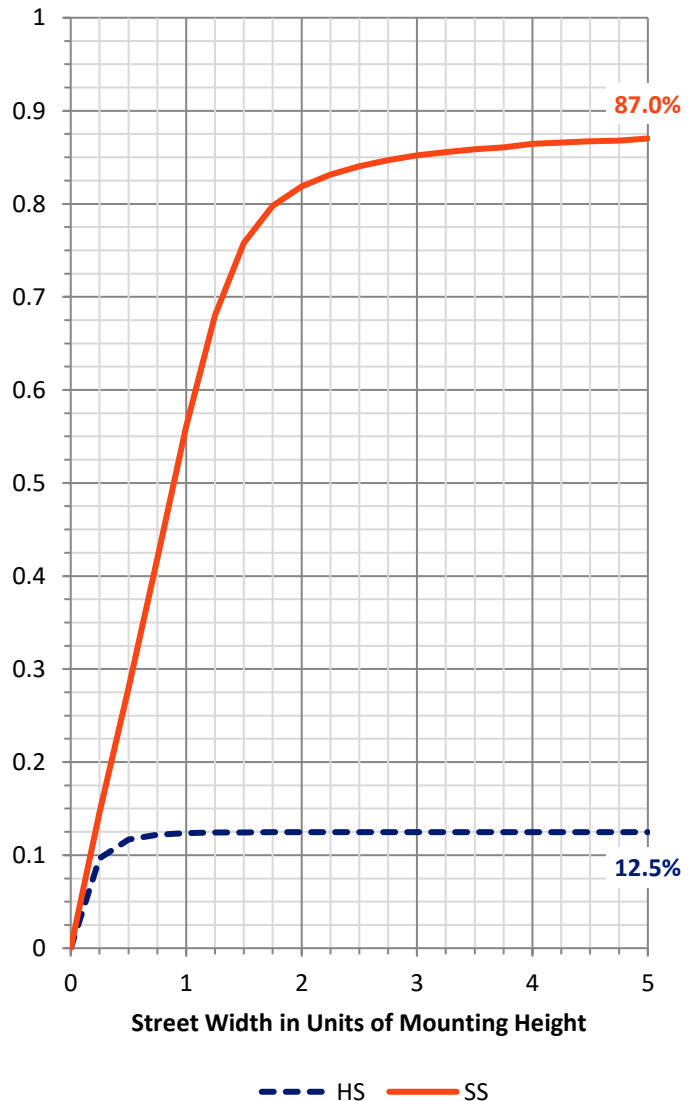
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	483.2	0.0	483.2
	% Fixture	12.6	0.0	12.6
<b>Street Side</b>	Lumens	3356.3	0.0	3356.3
	% Fixture	87.4	0.0	87.4
<b>Total</b>	Lumens	3839.5	0.0	3839.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.3	2.1
10°-20°	176.3	4.6
20°-30°	250.6	6.5
30°-40°	365.0	9.5
40°-50°	564.9	14.7
50°-60°	866.9	22.6
60°-70°	939.7	24.5
70°-80°	530.2	13.8
80°-90°	66.6	1.7
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°	3839.5	100.0
0°-180°	3839.5	100.0



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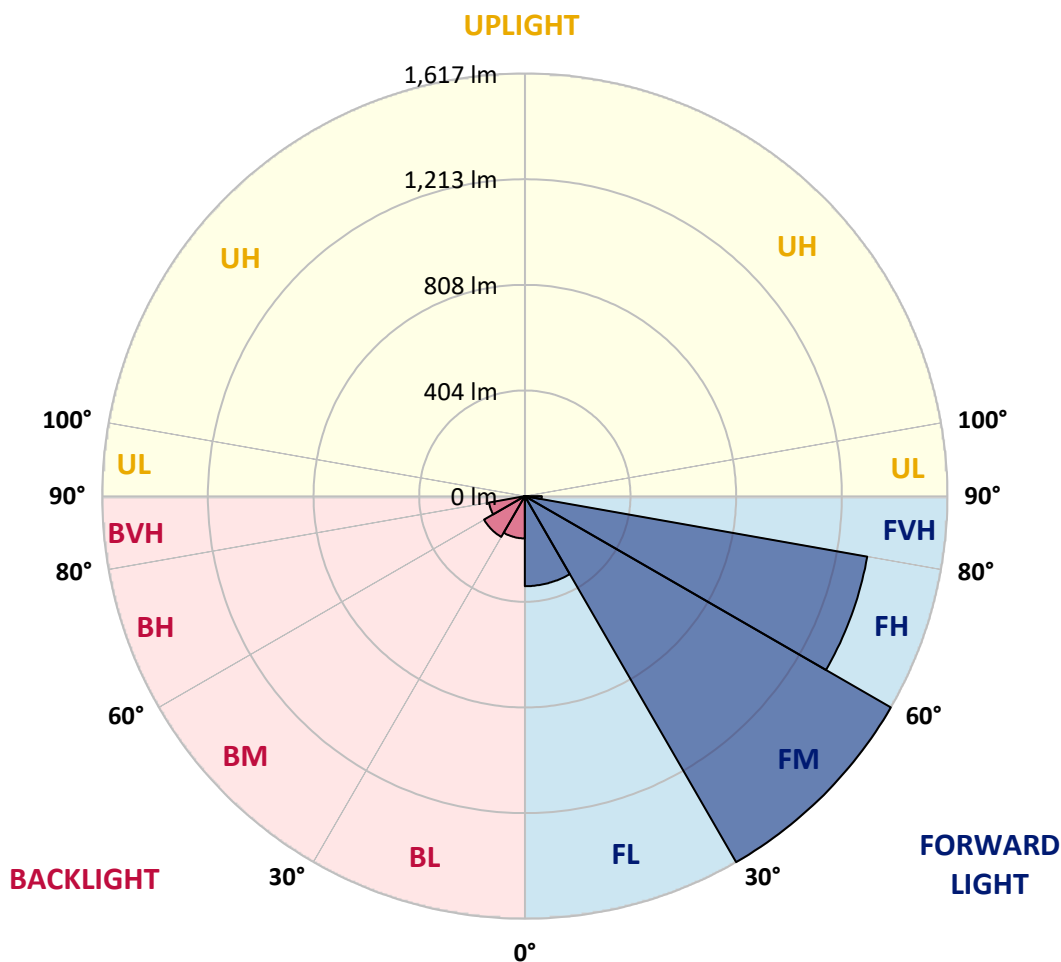
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	344.5	9.0			
FM (30°-60°)	1616.8	42.1			
FH (60°-80°)	1330.3	34.6			G1/1800
FVH (80°-90°)	64.7	1.7			G1/100
BL (0°-30°)	161.7	4.2	B1/500		
BM (30°-60°)	180.0	4.7	B0/220		
BH (60°-80°)	139.6	3.6	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	941.8	941.8	941.8	941.8	941.8	941.8	941.8	941.8	941.8	941.8	941.8
2.5°	901.0	905.7	912.2	921.4	927.9	924.2	927.0	942.7	934.4	941.8	938.1
5°	851.1	855.7	865.0	864.0	871.4	885.3	903.8	924.2	914.9	937.1	945.5
7.5°	799.3	797.4	797.4	816.9	832.6	852.0	862.2	895.5	896.4	915.9	936.2
10°	752.1	757.7	766.9	774.3	789.1	816.9	846.5	872.4	882.5	921.4	927.0
12.5°	723.4	726.2	737.3	743.8	763.2	790.0	821.5	854.8	863.1	902.9	929.7
15°	711.4	717.9	721.6	733.6	743.8	768.8	791.9	829.8	853.9	885.3	918.6
17.5°	720.7	717.9	719.7	723.4	735.5	757.7	782.6	820.6	828.9	881.6	931.6
20°	732.7	733.6	728.1	726.2	723.4	744.7	765.1	814.1	823.3	881.6	939.9
22.5°	765.1	754.9	765.1	750.3	735.5	744.7	764.1	815.0	821.5	880.7	948.2
25°	804.8	806.7	809.5	778.0	756.7	750.3	770.6	817.8	823.3	888.1	951.9
27.5°	861.3	869.6	855.7	840.0	797.4	765.1	769.7	815.9	826.1	884.4	961.2
30°	937.1	930.7	932.5	896.4	854.8	803.9	791.0	820.6	828.0	889.0	978.8
32.5°	1002.8	995.4	1008.4	995.4	929.7	859.4	815.9	829.8	838.1	900.1	993.6
35°	1043.5	1052.8	1073.1	1087.0	1031.5	931.6	857.6	854.8	858.5	905.7	1004.7
37.5°	1106.4	1123.1	1139.7	1174.9	1126.8	1020.4	923.3	887.2	880.7	932.5	1010.2
40°	1174.9	1170.3	1219.3	1260.9	1259.1	1145.3	1014.8	944.5	935.3	975.1	1047.2
42.5°	1232.2	1227.6	1282.2	1350.6	1358.0	1265.5	1119.4	1025.9	1017.6	1040.7	1092.5
45°	1307.2	1310.9	1375.6	1457.0	1483.9	1424.7	1260.9	1142.5	1137.9	1130.5	1178.6
47.5°	1373.8	1394.1	1449.6	1545.8	1643.0	1589.3	1427.4	1312.7	1280.3	1263.7	1311.8
50°	1420.0	1438.5	1506.1	1608.8	1786.4	1820.6	1614.3	1494.0	1495.0	1454.3	1480.2
52.5°	1420.0	1419.1	1473.7	1608.8	1886.3	2062.1	1864.1	1722.5	1729.9	1687.4	1689.2
55°	1283.1	1280.3	1346.9	1490.3	1875.2	2294.3	2242.4	2012.1	1993.6	1911.3	1919.6
57.5°	1033.3	1039.8	1090.7	1262.8	1730.9	2402.5	2693.0	2337.7	2274.8	2104.6	2104.6
60°	754.0	748.4	786.3	906.6	1386.7	2361.8	3063.0	2721.6	2622.7	2264.6	2240.6
62.5°	573.6	572.6	582.8	623.5	879.8	2059.3	3222.1	3210.1	3049.1	2421.9	2387.7
65°	463.5	465.3	479.2	507.9	537.5	1404.3	3137.9	3792.9	3645.8	2656.0	2544.0
67.5°	378.4	383.0	399.6	461.6	455.2	727.1	2672.6	4126.9	4154.6	3013.1	2754.0
70°	291.4	298.8	318.2	406.1	438.5	483.8	1853.0	3960.4	4034.4	3235.1	2627.3
72.5°	198.0	197.0	238.7	329.3	443.1	443.1	1031.5	3189.8	3260.1	2982.5	2282.2
75°	107.3	113.8	158.2	248.9	406.1	428.3	587.4	2334.0	2433.0	2319.2	1765.1
77.5°	58.3	59.2	87.9	162.8	337.7	408.9	392.2	1587.5	1626.3	1398.8	966.7
80°	30.5	31.5	46.3	106.4	233.1	379.3	326.6	946.4	909.4	536.6	319.2
82.5°	13.9	14.8	23.1	66.6	148.9	298.8	282.2	457.0	421.8	149.9	97.1
85°	5.6	5.6	10.2	39.8	87.0	147.1	241.5	229.4	191.5	45.3	48.1
87.5°	1.9	1.9	2.8	15.7	35.2	87.9	128.6	121.2	83.3	16.7	25.9
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°	941.8	941.8	941.8	941.8	941.8	941.8	941.8	941.8	941.8	941.8	941.8
2.5°	934.4	944.5	941.8	939.9	922.3	920.5	918.6	902.0	907.5	893.6	902.9
5°	939.9	945.5	930.7	902.9	877.9	850.2	828.9	814.1	787.3	777.1	775.2
7.5°	934.4	934.4	903.8	859.4	810.4	765.1	707.7	667.0	636.5	613.3	621.7
10°	927.0	915.9	884.4	805.8	717.0	648.5	566.2	506.0	460.7	445.9	436.6
12.5°	927.0	907.5	837.2	729.9	615.2	511.6	413.5	334.9	291.4	265.5	261.8
15°	918.6	889.9	803.0	658.7	516.2	375.6	263.7	196.1	159.1	148.9	145.2
17.5°	920.5	886.2	752.1	574.5	400.6	249.8	161.0	124.0	114.7	110.1	111.0
20°	924.2	886.2	706.8	492.2	288.6	155.4	111.0	104.5	99.9	98.1	99.0
22.5°	936.2	868.7	660.5	408.0	195.2	111.9	98.1	91.6	87.9	85.1	84.2
25°	938.1	865.9	616.1	324.7	134.1	94.4	86.0	78.6	74.0	70.3	69.4
27.5°	935.3	853.9	554.1	241.5	100.8	84.2	73.1	65.7	59.2	56.4	55.5
30°	945.5	831.7	501.4	173.9	85.1	73.1	62.0	53.7	48.1	44.4	44.4
32.5°	946.4	812.2	443.1	124.0	77.7	64.8	52.7	43.5	37.9	36.1	36.1
35°	947.3	794.7	378.4	94.4	69.4	55.5	43.5	36.1	32.4	29.6	29.6
37.5°	950.1	781.7	319.2	79.6	62.0	47.2	36.1	29.6	25.9	25.0	25.0
40°	955.6	764.1	257.2	70.3	53.7	39.8	30.5	25.0	21.3	20.4	19.4
42.5°	970.4	759.5	205.4	62.9	48.1	33.3	25.0	20.4	17.6	15.7	14.8
45°	1031.5	771.5	159.1	58.3	40.7	27.8	21.3	16.7	13.0	12.0	11.1
47.5°	1131.4	811.3	125.8	51.8	34.2	23.1	17.6	13.0	10.2	9.3	8.3
50°	1283.1	902.0	102.7	46.3	28.7	19.4	13.9	10.2	7.4	6.5	6.5
52.5°	1482.0	1024.1	88.8	40.7	23.1	16.7	11.1	7.4	5.6	4.6	4.6
55°	1685.5	1168.4	83.3	35.2	19.4	13.9	8.3	5.6	3.7	2.8	2.8
57.5°	1872.4	1261.8	80.5	28.7	16.7	10.2	6.5	3.7	1.9	0.9	0.9
60°	1989.0	1330.3	72.2	23.1	13.0	8.3	4.6	1.9	0.9	0.0	0.0
62.5°	2142.5	1399.7	59.2	17.6	9.3	5.6	2.8	0.9	0.0	0.0	0.0
65°	2345.1	1477.4	46.3	13.9	7.4	3.7	1.9	0.9	0.0	0.0	0.0
67.5°	2442.3	1436.7	31.5	10.2	4.6	1.9	0.9	0.0	0.0	0.0	0.0
70°	2248.0	1210.0	22.2	7.4	2.8	0.9	0.9	0.0	0.0	0.0	0.0
72.5°	1890.0	948.2	16.7	4.6	1.9	0.9	0.0	0.0	0.0	0.0	0.0
75°	1393.2	593.0	13.0	3.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	739.2	221.1	9.3	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	218.3	64.8	6.5	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	72.2	19.4	3.7	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	37.0	7.4	1.9	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.3	2.8	1.9	1.9	0.9	0.0	0.0	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)