

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: P674385

Luminaire Tested: **CCP-SA-1E-727-U-AFL-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674385  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1E-727-U-AFL-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1050mA w/ AFL distribution lens and House Side Shield  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

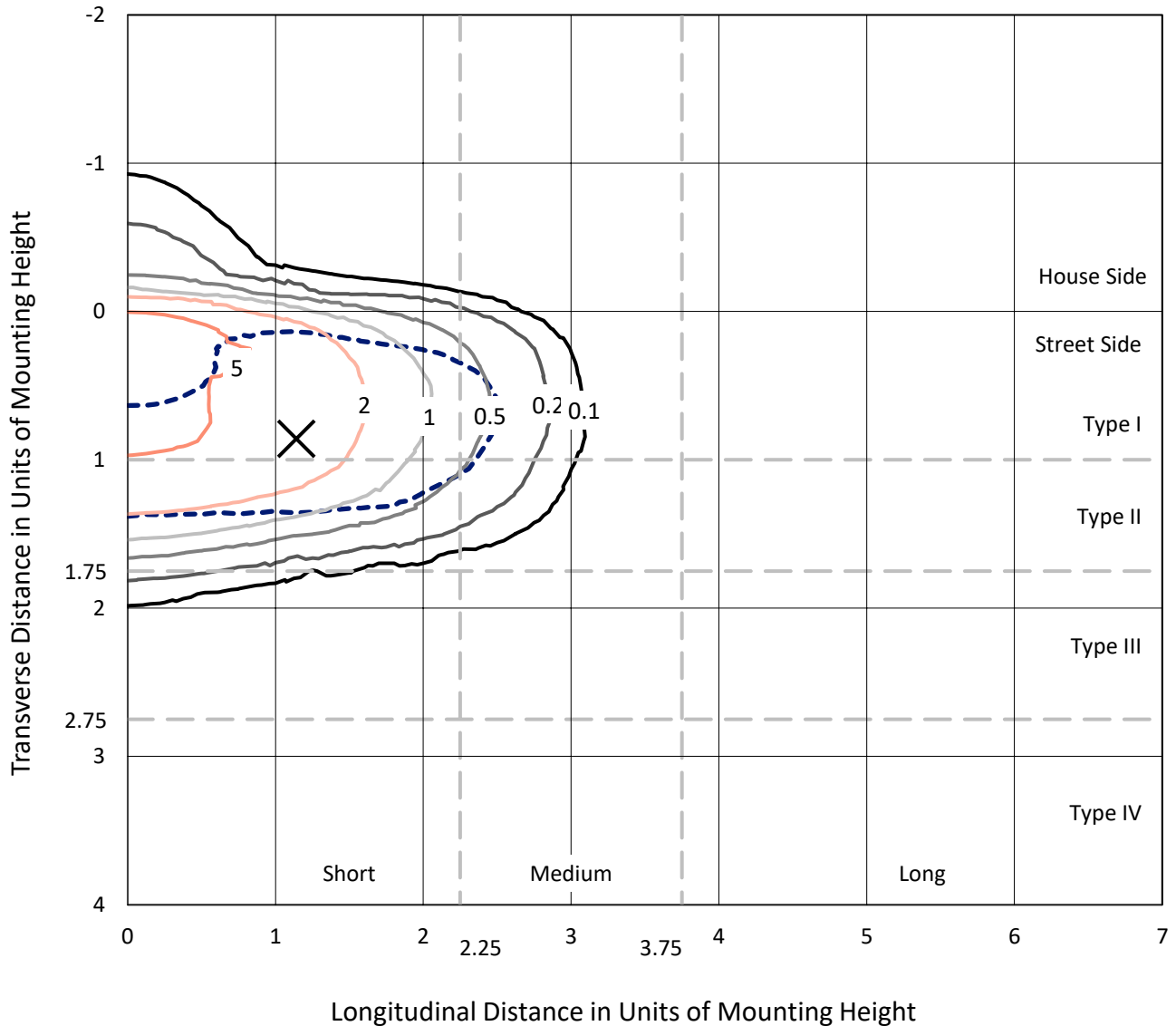
Lumens per Lamp: N/A  
Luminaire Lumens: 4741.5 lumens  
Efficiency: N/A  
Efficacy: 84.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 56.1  
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

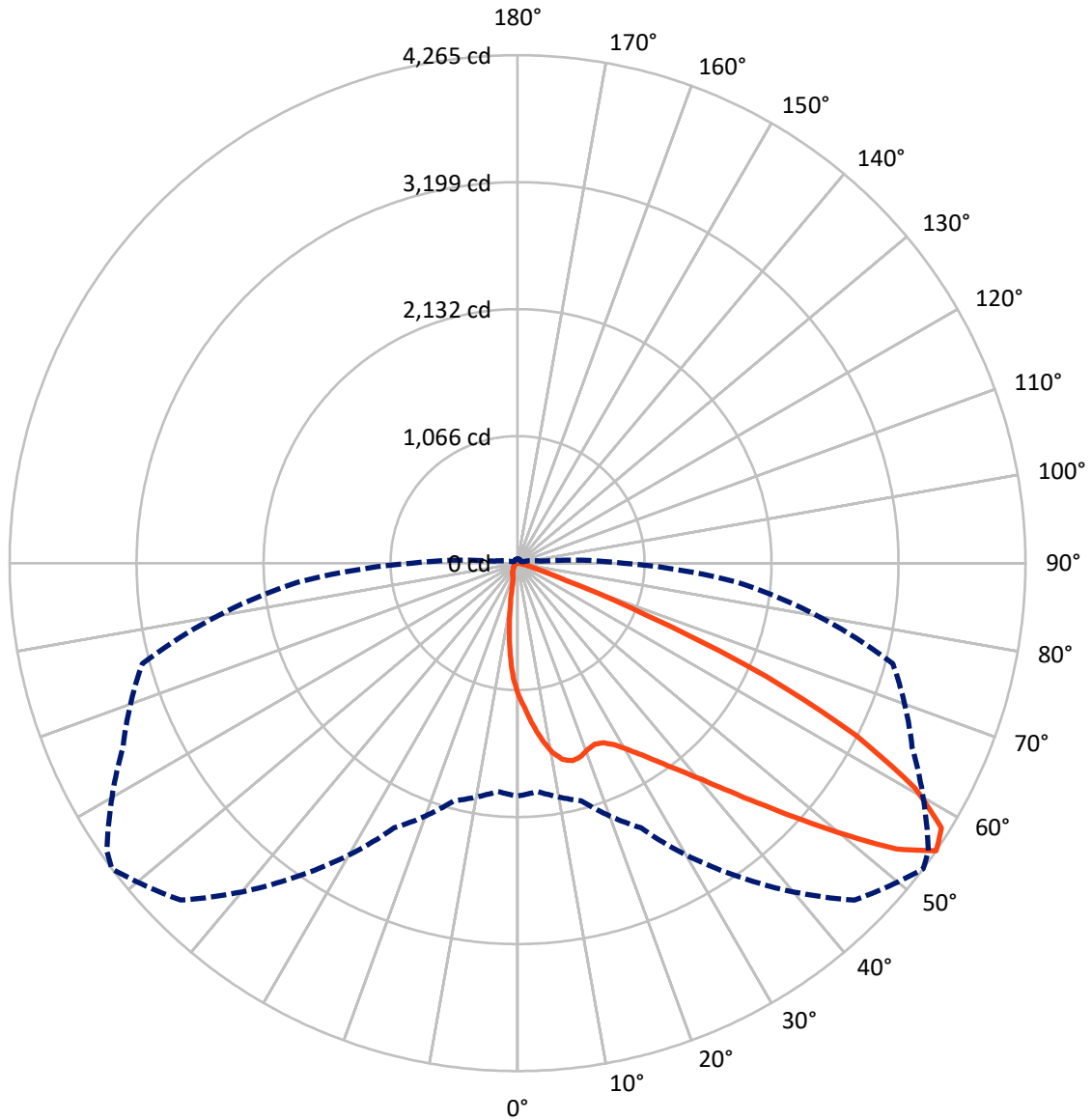
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.2 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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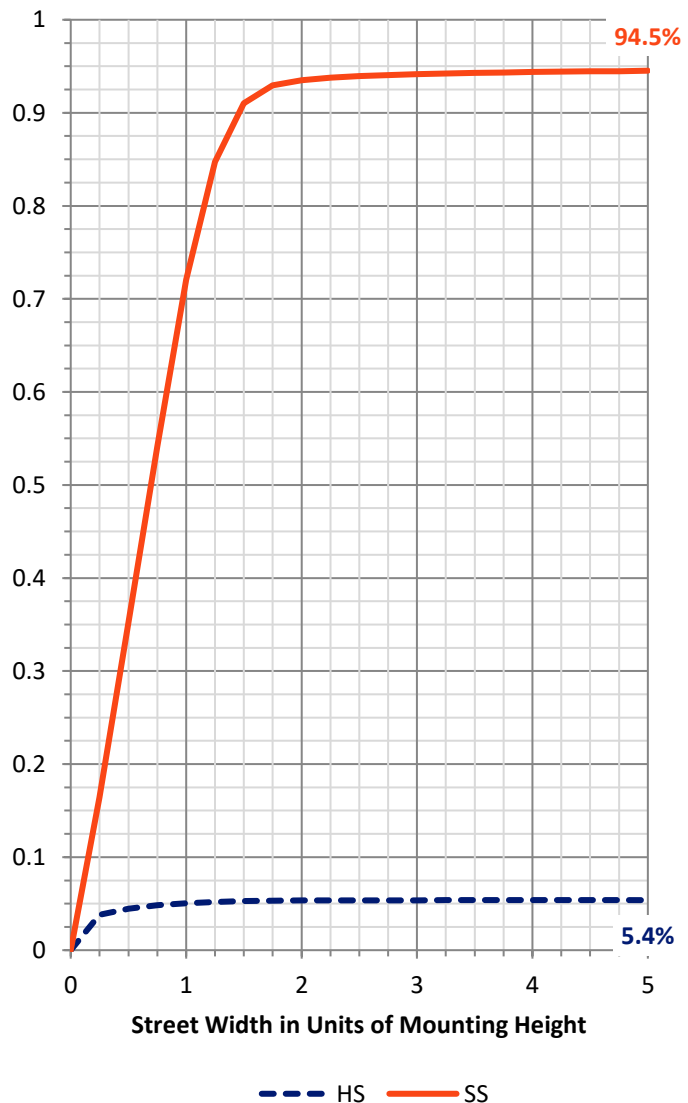
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	256.3	0.0	256.3
	% Fixture	5.4	0.0	5.4
<b>Street Side</b>	Lumens	4485.2	0.0	4485.2
	% Fixture	94.6	0.0	94.6
<b>Total</b>	Lumens	4741.5	0.0	4741.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.2	2.1
10°-20°	259.2	5.5
20°-30°	433.9	9.2
30°-40°	709.8	15.0
40°-50°	1141.0	24.1
50°-60°	1288.2	27.2
60°-70°	687.1	14.5
70°-80°	112.9	2.4
80°-90°	10.1	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°	4741.5	100.0
0°-180°	4741.5	100.0



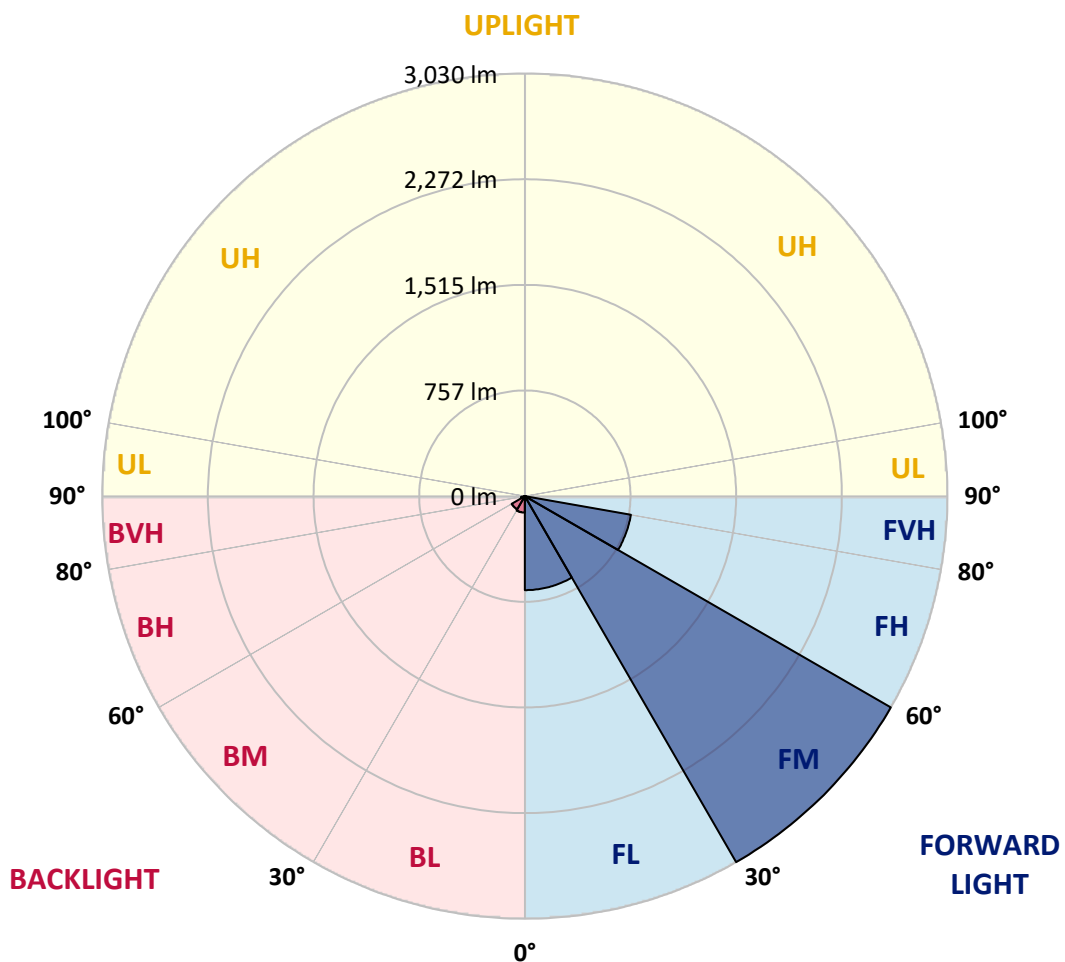
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	674.0	14.2			
FM (30°-60°)	3029.9	63.9			
FH (60°-80°)	772.0	16.3			G1/1800
FVH (80°-90°)	9.3	0.2			G0/10
BL (0°-30°)	118.3	2.5	B1/500		
BM (30°-60°)	109.2	2.3	B0/220		
BH (60°-80°)	28.0	0.6	B0/110		G0/110
BVH (80°-90°)	0.8	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°	53°	55°	65°	75°	85°
0°	1109.6	1109.6	1109.6	1109.6	1109.6	1109.6	1109.6	1109.6	1109.6	1109.6	1109.6
2.5°	1330.6	1322.7	1327.3	1315.3	1293.3	1265.8	1224.7	1226.8	1194.4	1166.1	1127.1
5°	1550.4	1542.1	1539.6	1508.9	1478.1	1428.7	1367.6	1357.6	1298.2	1226.4	1144.5
7.5°	1666.3	1659.3	1664.7	1653.4	1623.1	1578.2	1501.0	1493.5	1401.7	1292.8	1172.4
10°	1613.1	1610.6	1633.5	1660.1	1684.6	1679.2	1617.3	1605.7	1502.6	1366.0	1201.0
12.5°	1470.2	1478.1	1507.2	1556.2	1631.8	1702.9	1692.9	1695.0	1605.7	1445.3	1232.6
15°	1386.3	1395.9	1412.5	1437.8	1530.9	1657.2	1721.6	1742.3	1704.5	1533.8	1270.0
17.5°	1379.2	1387.1	1389.6	1399.2	1453.6	1583.6	1709.9	1749.4	1792.6	1617.3	1311.9
20°	1433.7	1437.0	1434.9	1427.9	1447.4	1543.8	1673.4	1729.9	1865.3	1706.2	1348.9
22.5°	1536.3	1531.3	1525.1	1498.9	1497.6	1555.0	1653.4	1712.4	1908.5	1779.7	1373.4
25°	1663.4	1653.0	1644.3	1607.3	1589.9	1613.6	1671.3	1718.7	1947.6	1851.2	1390.9
27.5°	1802.2	1805.5	1783.9	1734.0	1706.6	1701.6	1726.6	1761.9	1985.4	1915.2	1400.4
30°	1950.5	1952.1	1923.9	1872.4	1847.4	1815.5	1813.8	1835.0	2026.1	1988.7	1409.6
32.5°	2119.6	2124.1	2078.0	2024.4	1980.8	1939.3	1918.9	1936.8	2099.2	2084.7	1428.3
35°	2363.8	2343.9	2281.6	2200.6	2138.7	2084.2	2053.1	2064.7	2196.4	2199.7	1465.7
37.5°	2615.6	2613.5	2544.5	2427.8	2326.4	2258.7	2205.6	2224.7	2333.1	2353.9	1525.5
40°	2850.3	2855.7	2795.9	2694.1	2563.7	2447.3	2390.4	2403.3	2514.6	2540.8	1598.2
42.5°	3003.6	3000.7	3005.3	2976.2	2845.3	2708.2	2622.6	2629.7	2725.7	2739.4	1689.2
45°	3074.2	3063.0	3102.1	3194.3	3142.4	2998.2	2900.6	2891.9	2944.6	2940.9	1771.8
47.5°	3013.2	2992.4	3082.1	3304.4	3404.9	3361.3	3221.7	3205.9	3161.1	3131.1	1857.8
50°	2709.5	2700.3	2892.3	3252.0	3569.8	3697.0	3594.4	3535.8	3354.2	3271.6	1903.1
52.5°	2420.7	2395.4	2525.0	2984.9	3496.3	3967.0	3988.2	3883.9	3514.6	3311.9	1887.7
55°	1955.5	1924.3	2065.5	2452.3	3205.1	4001.5	4264.9	4210.4	3655.0	3262.0	1856.6
57.5°	1187.7	1157.0	1364.7	1756.5	2563.2	3714.8	4196.7	4252.0	3763.0	3207.2	1836.2
60°	499.4	479.8	561.3	838.4	1636.8	3053.0	3835.3	3973.2	3783.4	3132.0	1844.5
62.5°	259.6	250.9	255.5	335.7	661.8	2010.3	3192.2	3432.3	3578.2	3098.7	1852.8
65°	194.8	188.2	173.7	184.5	257.2	869.1	2294.0	2615.6	3133.2	3014.4	1796.8
67.5°	159.9	153.7	143.3	140.0	151.6	301.6	1171.1	1589.0	2455.2	2655.1	1595.7
70°	127.5	125.5	122.1	115.9	113.8	146.2	420.0	647.7	1623.5	1872.4	1156.6
72.5°	106.4	106.8	103.0	97.6	90.1	94.3	167.4	221.4	785.6	897.8	484.4
75°	88.9	88.9	90.1	82.7	75.2	64.8	93.1	108.0	252.2	207.3	103.4
77.5°	69.8	70.6	76.0	69.8	60.2	40.7	50.7	57.7	74.8	59.8	37.8
80°	55.7	54.8	52.8	62.7	54.0	28.7	24.1	26.6	34.9	28.7	18.7
82.5°	39.1	38.6	37.0	42.4	42.0	21.2	15.8	16.2	21.2	18.3	11.6
85°	9.6	11.2	23.7	19.9	17.4	12.5	9.6	10.4	13.7	12.0	6.2
87.5°	4.2	4.2	10.8	12.9	8.3	5.4	4.2	4.6	7.1	7.1	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1109.6	1109.6	1109.6	1109.6	1109.6	1109.6	1109.6	1109.6	1109.6	1109.6	1109.6
2.5°	1113.4	1086.4	1052.3	1016.2	979.2	934.7	906.5	883.2	864.9	850.8	845.8
5°	1117.5	1065.6	988.3	892.4	794.7	703.3	632.7	580.4	537.2	513.5	503.1
7.5°	1117.1	1048.1	908.6	747.8	589.1	457.4	363.9	306.2	267.5	251.8	242.2
10°	1116.7	1025.3	817.6	587.4	393.8	265.0	195.3	162.9	148.7	143.3	142.5
12.5°	1128.7	999.1	715.8	432.5	247.2	164.9	135.8	128.4	125.0	123.4	123.0
15°	1135.4	975.0	608.6	305.3	166.6	130.4	121.3	118.0	116.7	115.9	115.5
17.5°	1142.4	937.6	506.8	221.0	133.4	118.4	113.0	110.9	110.1	110.1	110.1
20°	1143.7	897.3	405.9	162.9	118.4	110.5	105.1	103.0	101.8	101.0	101.0
22.5°	1134.6	849.6	319.1	132.1	109.7	103.0	97.2	93.9	91.8	91.4	91.4
25°	1111.7	781.9	244.7	115.9	102.6	95.6	88.5	84.7	83.1	83.1	83.1
27.5°	1078.9	702.1	189.0	103.0	93.5	86.4	80.2	76.9	76.4	76.0	76.4
30°	1041.5	625.2	144.6	91.4	82.7	76.9	71.9	70.2	71.0	71.0	71.5
32.5°	1004.1	548.4	113.0	82.3	73.1	68.1	65.6	65.6	66.9	66.9	66.9
35°	972.1	473.2	94.7	74.8	66.5	62.3	61.1	62.3	63.1	63.6	63.6
37.5°	954.3	408.4	83.5	68.1	61.1	57.7	57.3	58.6	60.2	61.5	61.9
40°	947.6	358.5	76.9	63.1	56.1	54.0	53.6	55.3	58.2	60.2	60.7
42.5°	948.0	314.5	71.0	58.2	52.8	49.9	49.9	52.3	55.3	57.3	57.3
45°	950.9	276.7	65.2	53.2	49.9	44.9	45.3	48.6	50.7	52.8	52.8
47.5°	953.4	246.4	59.0	47.8	43.2	40.7	41.5	44.0	46.9	50.3	50.3
50°	938.9	224.8	52.8	42.0	37.8	37.0	38.6	40.7	44.9	48.2	48.6
52.5°	904.0	205.2	47.4	37.4	34.1	34.5	36.6	37.8	41.1	41.5	42.0
55°	888.6	195.3	43.2	34.1	31.2	32.4	33.7	34.1	33.2	31.2	31.2
57.5°	885.3	188.6	39.1	30.7	28.7	30.3	29.9	27.4	24.9	22.4	22.0
60°	888.6	179.5	35.7	26.6	26.2	26.6	25.3	20.8	17.4	15.8	15.0
62.5°	869.5	166.2	32.8	22.8	22.8	22.4	19.1	14.1	11.2	10.0	9.6
65°	806.4	140.0	29.9	19.1	18.7	17.9	12.9	9.6	7.5	6.2	5.8
67.5°	682.1	108.4	27.0	15.8	15.0	12.5	8.3	6.2	4.2	3.7	3.3
70°	465.3	67.3	22.8	12.5	11.2	7.9	5.0	3.7	2.5	2.1	1.7
72.5°	168.7	39.1	19.1	9.6	7.5	5.0	2.9	1.7	1.2	1.2	0.8
75°	39.9	27.4	14.5	7.1	5.0	2.9	1.7	1.2	0.8	0.8	0.4
77.5°	18.3	21.2	9.6	4.2	3.3	2.1	1.2	0.8	0.4	0.4	0.0
80°	10.4	15.0	4.6	2.9	2.5	1.7	0.8	0.4	0.4	0.0	0.0
82.5°	5.4	8.3	3.3	2.5	2.1	1.2	0.8	0.0	0.0	0.0	0.0
85°	3.7	4.2	2.5	2.1	1.7	1.2	0.8	0.0	0.0	0.0	0.0
87.5°	2.9	2.9	2.5	2.1	1.7	1.2	0.4	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)