

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: P674498

Luminaire Tested: **CCP-SA-2B-850-U-AFL-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674498  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2B-850-U-AFL-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ AFL distribution lens and House Side Shield  
Light Source: (32) 5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

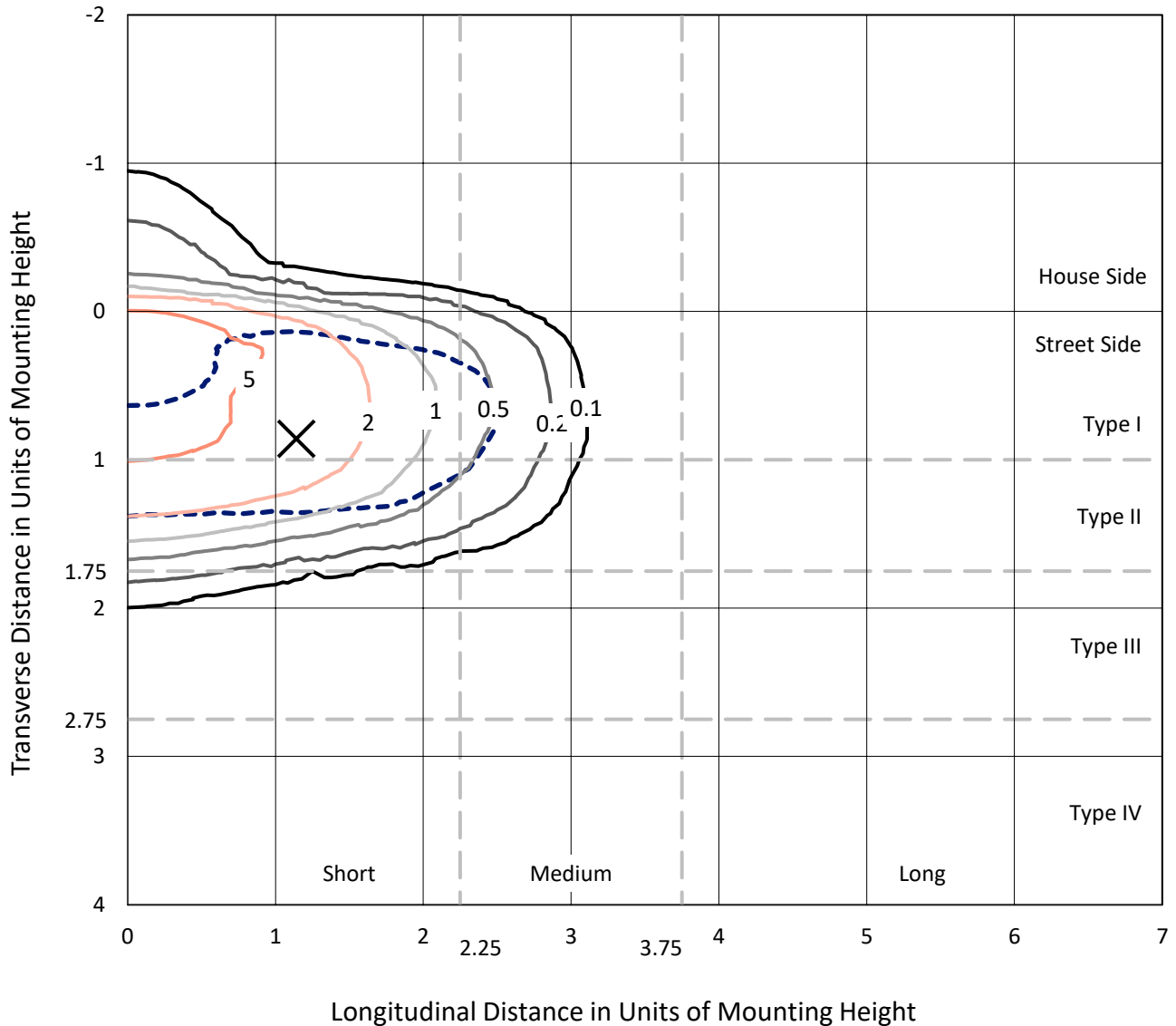
Lumens per Lamp: N/A  
Luminaire Lumens: 4997.4 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 46  
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

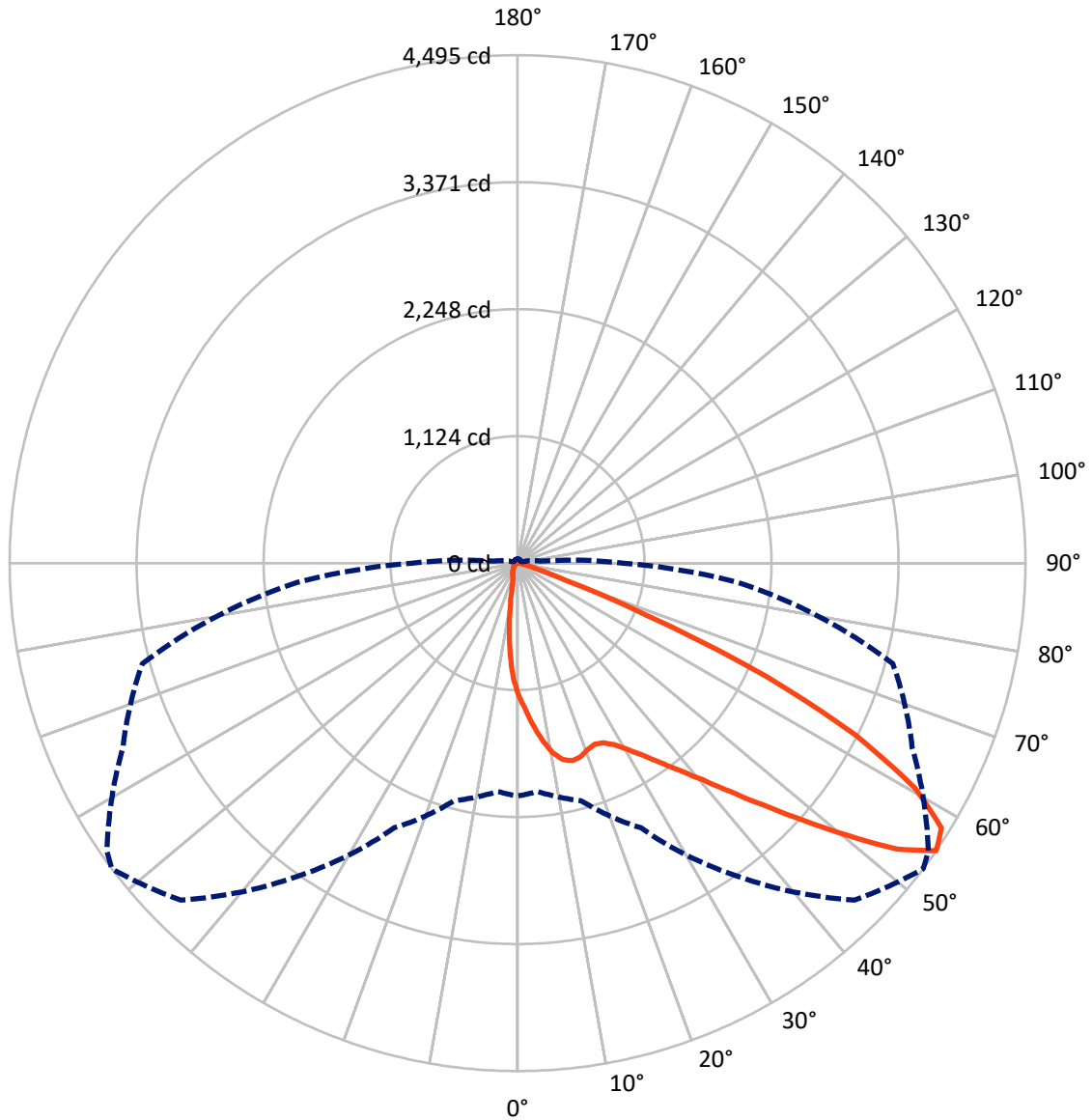
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.5 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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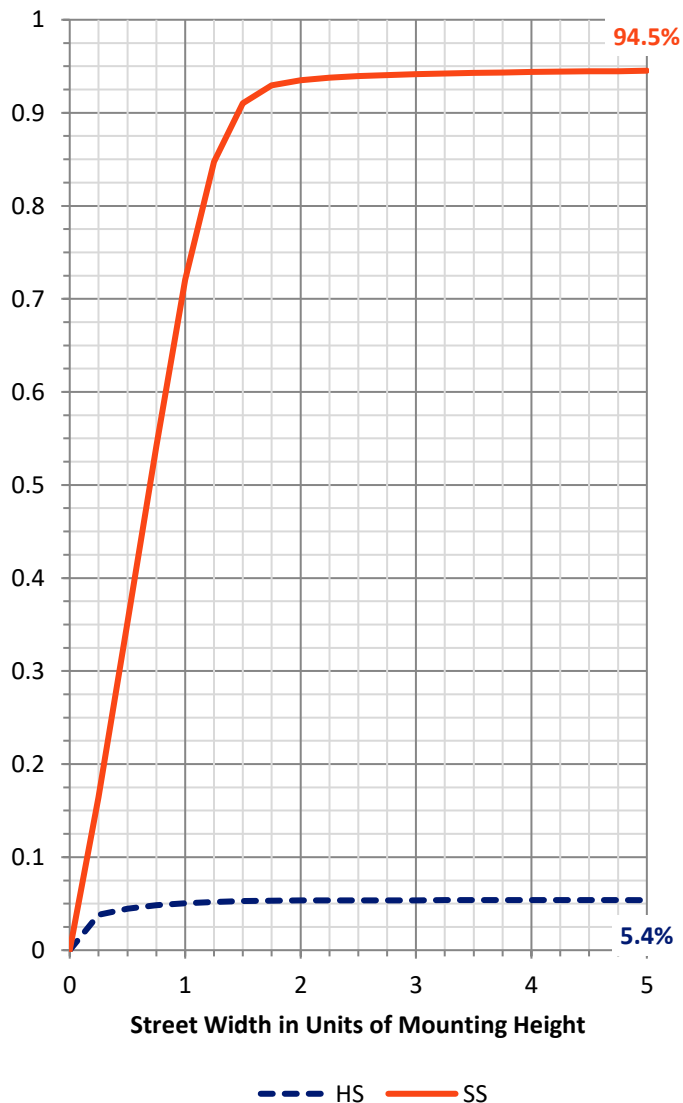
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	270.1	0.0	270.1
	% Fixture	5.4	0.0	5.4
<b>Street Side</b>	Lumens	4727.3	0.0	4727.3
	% Fixture	94.6	0.0	94.6
<b>Total</b>	Lumens	4997.4	0.0	4997.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.6	2.1
10°-20°	273.2	5.5
20°-30°	457.3	9.2
30°-40°	748.1	15.0
40°-50°	1202.6	24.1
50°-60°	1357.7	27.2
60°-70°	724.2	14.5
70°-80°	119.0	2.4
80°-90°	10.7	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°	4997.4	100.0
0°-180°	4997.4	100.0



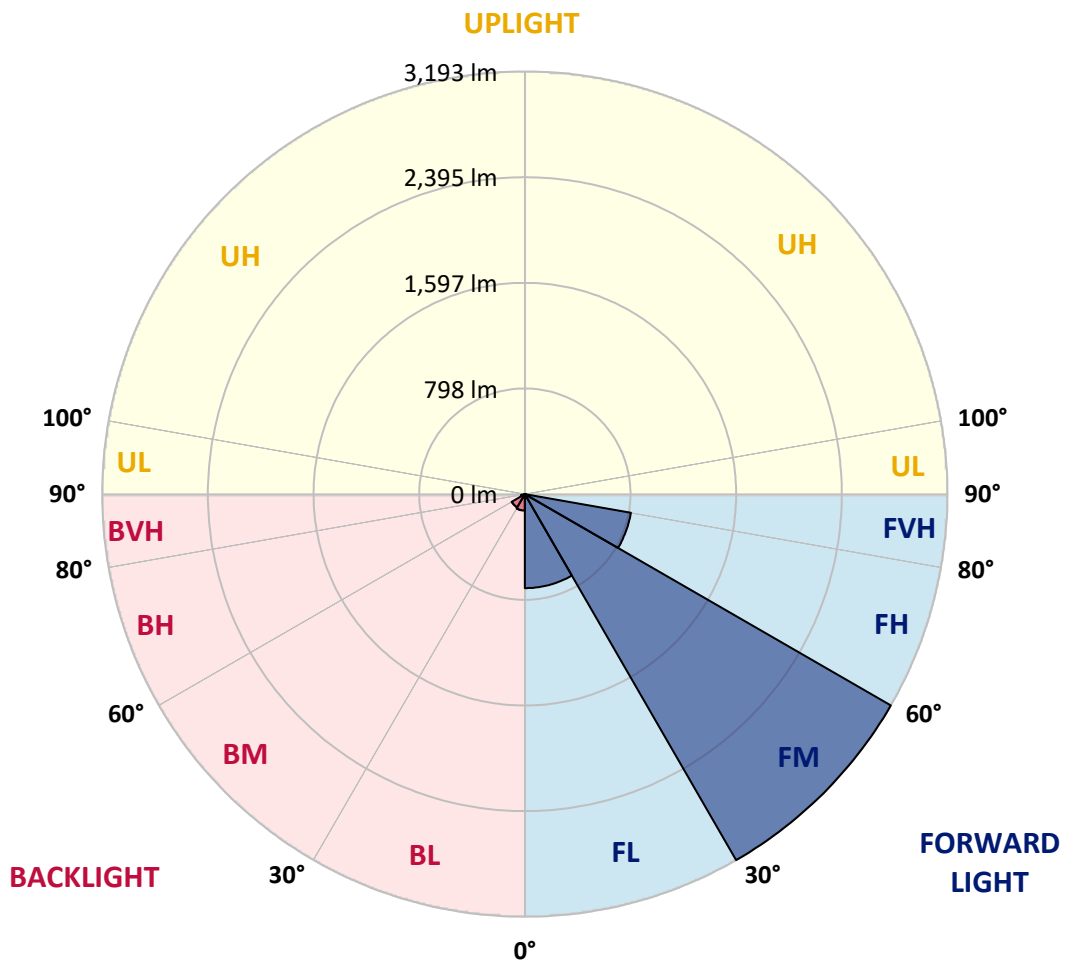
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	710.4	14.2			
FM (30°-60°)	3193.4	63.9			
FH (60°-80°)	813.7	16.3			G1/1800
FVH (80°-90°)	9.8	0.2			G0/10
BL (0°-30°)	124.7	2.5	B1/500		
BM (30°-60°)	115.1	2.3	B0/220		
BH (60°-80°)	29.5	0.6	B0/110		G0/110
BVH (80°-90°)	0.9	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°	53°	55°	65°	75°	85°
0°	1169.5	1169.5	1169.5	1169.5	1169.5	1169.5	1169.5	1169.5	1169.5	1169.5	1169.5
2.5°	1402.4	1394.1	1398.9	1386.2	1363.0	1334.1	1290.8	1293.0	1258.8	1229.1	1187.9
5°	1634.1	1625.3	1622.7	1590.3	1557.9	1505.8	1441.4	1430.9	1368.3	1292.5	1206.3
7.5°	1756.2	1748.8	1754.5	1742.7	1710.7	1663.4	1582.0	1574.1	1477.3	1362.6	1235.6
10°	1700.2	1697.6	1721.6	1749.7	1775.5	1769.8	1704.6	1692.3	1583.7	1439.7	1265.8
12.5°	1549.6	1557.9	1588.5	1640.2	1719.9	1794.8	1784.3	1786.4	1692.3	1523.3	1299.1
15°	1461.1	1471.2	1488.7	1515.4	1613.5	1746.6	1814.5	1836.4	1796.5	1616.6	1338.5
17.5°	1453.7	1462.0	1464.6	1474.7	1532.1	1669.1	1802.2	1843.8	1889.3	1704.6	1382.7
20°	1511.0	1514.5	1512.3	1504.9	1525.5	1627.1	1763.7	1823.2	1966.0	1798.3	1421.7
22.5°	1619.2	1613.9	1607.4	1579.8	1578.5	1638.9	1742.7	1804.8	2011.5	1875.8	1447.5
25°	1753.2	1742.2	1733.0	1694.1	1675.7	1700.6	1761.5	1811.4	2052.7	1951.1	1465.9
27.5°	1899.4	1902.9	1880.1	1827.6	1798.7	1793.5	1819.7	1856.9	2092.5	2018.5	1476.0
30°	2055.7	2057.5	2027.7	1973.4	1947.1	1913.4	1911.7	1934.0	2135.4	2096.0	1485.6
32.5°	2233.9	2238.7	2190.1	2133.7	2087.7	2043.9	2022.4	2041.3	2212.5	2197.2	1505.3
35°	2491.4	2470.4	2404.7	2319.3	2254.1	2196.7	2163.9	2176.1	2314.9	2318.4	1544.7
37.5°	2756.7	2754.5	2681.9	2558.8	2452.0	2380.6	2324.6	2344.7	2459.0	2480.9	1607.8
40°	3004.1	3009.8	2946.8	2839.5	2702.0	2579.4	2519.4	2533.0	2650.3	2677.9	1684.4
42.5°	3165.7	3162.6	3167.4	3136.8	2998.9	2854.4	2764.2	2771.6	2872.8	2887.2	1780.3
45°	3240.1	3228.3	3269.5	3366.7	3311.9	3160.0	3057.1	3047.9	3103.5	3099.6	1867.4
47.5°	3175.8	3153.9	3248.4	3482.7	3588.7	3542.7	3395.6	3378.9	3331.6	3300.1	1958.1
50°	2855.7	2846.1	3048.3	3427.5	3762.5	3896.5	3788.3	3726.6	3535.2	3448.1	2005.8
52.5°	2551.4	2524.7	2661.3	3146.0	3685.0	4181.1	4203.4	4093.5	3704.2	3490.6	1989.6
55°	2061.0	2028.1	2177.0	2584.7	3378.0	4217.4	4495.0	4437.7	3852.2	3438.0	1956.8
57.5°	1251.8	1219.4	1438.4	1851.2	2701.6	3915.3	4423.2	4481.4	3966.1	3380.2	1935.3
60°	526.3	505.7	591.5	883.6	1725.1	3217.8	4042.3	4187.6	3987.5	3301.0	1944.1
62.5°	273.7	264.5	269.3	353.8	697.5	2118.8	3364.5	3617.6	3771.2	3266.0	1952.8
65°	205.4	198.3	183.0	194.4	271.0	916.0	2417.8	2756.7	3302.3	3177.1	1893.7
67.5°	168.6	162.0	151.1	147.6	159.8	317.9	1234.3	1674.8	2587.7	2798.3	1681.8
70°	134.4	132.2	128.7	122.2	120.0	154.1	442.7	682.6	1711.1	1973.4	1219.0
72.5°	112.1	112.5	108.6	102.9	95.0	99.4	176.5	233.4	828.0	946.2	510.5
75°	93.7	93.7	95.0	87.1	79.3	68.3	98.1	113.8	265.8	218.5	109.0
77.5°	73.6	74.4	80.1	73.6	63.5	42.9	53.4	60.9	78.8	63.1	39.8
80°	58.7	57.8	55.6	66.1	56.9	30.2	25.4	28.0	36.8	30.2	19.7
82.5°	41.2	40.7	39.0	44.7	44.2	22.3	16.6	17.1	22.3	19.3	12.3
85°	10.1	11.8	25.0	21.0	18.4	13.1	10.1	10.9	14.4	12.7	6.6
87.5°	4.4	4.4	11.4	13.6	8.8	5.7	4.4	4.8	7.4	7.4	3.9
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°	1169.5	1169.5	1169.5	1169.5	1169.5	1169.5	1169.5	1169.5	1169.5	1169.5	1169.5
2.5°	1173.4	1145.0	1109.1	1071.0	1032.0	985.2	955.4	930.9	911.6	896.7	891.5
5°	1177.8	1123.1	1041.7	940.5	837.6	741.3	666.9	611.7	566.1	541.2	530.2
7.5°	1177.4	1104.7	957.6	788.1	620.9	482.1	383.6	322.7	282.0	265.3	255.3
10°	1177.0	1080.6	861.7	619.1	415.1	279.4	205.8	171.6	156.8	151.1	150.2
12.5°	1189.6	1053.0	754.4	455.8	260.5	173.8	143.2	135.3	131.8	130.0	129.6
15°	1196.7	1027.6	641.5	321.8	175.6	137.5	127.9	124.4	123.0	122.2	121.7
17.5°	1204.1	988.2	534.2	232.9	140.6	124.8	119.1	116.9	116.0	116.0	116.0
20°	1205.4	945.8	427.8	171.6	124.8	116.5	110.8	108.6	107.3	106.4	106.4
22.5°	1195.8	895.4	336.3	139.2	115.6	108.6	102.5	99.0	96.8	96.3	96.3
25°	1171.7	824.0	257.9	122.2	108.1	100.7	93.3	89.3	87.6	87.6	87.6
27.5°	1137.1	740.0	199.2	108.6	98.5	91.1	84.5	81.0	80.6	80.1	80.6
30°	1097.7	659.0	152.4	96.3	87.1	81.0	75.7	74.0	74.9	74.9	75.3
32.5°	1058.3	578.0	119.1	86.7	77.1	71.8	69.2	69.2	70.5	70.5	70.5
35°	1024.6	498.7	99.8	78.8	70.1	65.7	64.4	65.7	66.6	67.0	67.0
37.5°	1005.8	430.4	88.0	71.8	64.4	60.9	60.4	61.7	63.5	64.8	65.2
40°	998.7	377.9	81.0	66.6	59.1	56.9	56.5	58.2	61.3	63.5	63.9
42.5°	999.2	331.5	74.9	61.3	55.6	52.5	52.5	55.2	58.2	60.4	60.4
45°	1002.2	291.6	68.7	56.0	52.5	47.3	47.7	51.2	53.4	55.6	55.6
47.5°	1004.9	259.6	62.2	50.4	45.5	42.9	43.8	46.4	49.5	53.0	53.0
50°	989.6	236.9	55.6	44.2	39.8	39.0	40.7	42.9	47.3	50.8	51.2
52.5°	952.8	216.3	49.9	39.4	35.9	36.3	38.5	39.8	43.3	43.8	44.2
55°	936.6	205.8	45.5	35.9	32.8	34.2	35.5	35.9	35.0	32.8	32.8
57.5°	933.1	198.8	41.2	32.4	30.2	32.0	31.5	28.9	26.3	23.6	23.2
60°	936.6	189.2	37.7	28.0	27.6	28.0	26.7	21.9	18.4	16.6	15.8
62.5°	916.4	175.1	34.6	24.1	24.1	23.6	20.1	14.9	11.8	10.5	10.1
65°	849.9	147.6	31.5	20.1	19.7	18.8	13.6	10.1	7.9	6.6	6.1
67.5°	719.0	114.3	28.5	16.6	15.8	13.1	8.8	6.6	4.4	3.9	3.5
70°	490.4	70.9	24.1	13.1	11.8	8.3	5.3	3.9	2.6	2.2	1.8
72.5°	177.8	41.2	20.1	10.1	7.9	5.3	3.1	1.8	1.3	1.3	0.9
75°	42.0	28.9	15.3	7.4	5.3	3.1	1.8	1.3	0.9	0.9	0.4
77.5°	19.3	22.3	10.1	4.4	3.5	2.2	1.3	0.9	0.4	0.4	0.0
80°	10.9	15.8	4.8	3.1	2.6	1.8	0.9	0.4	0.4	0.0	0.0
82.5°	5.7	8.8	3.5	2.6	2.2	1.3	0.9	0.0	0.0	0.0	0.0
85°	3.9	4.4	2.6	2.2	1.8	1.3	0.9	0.0	0.0	0.0	0.0
87.5°	3.1	3.1	2.6	2.2	1.8	1.3	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)