

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: P674455

Luminaire Tested: **CCP-SA-2C-827-U-AFL-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674455  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2C-827-U-AFL-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @615mA w/ AFL distribution lens and House Side Shield  
Light Source: (32) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

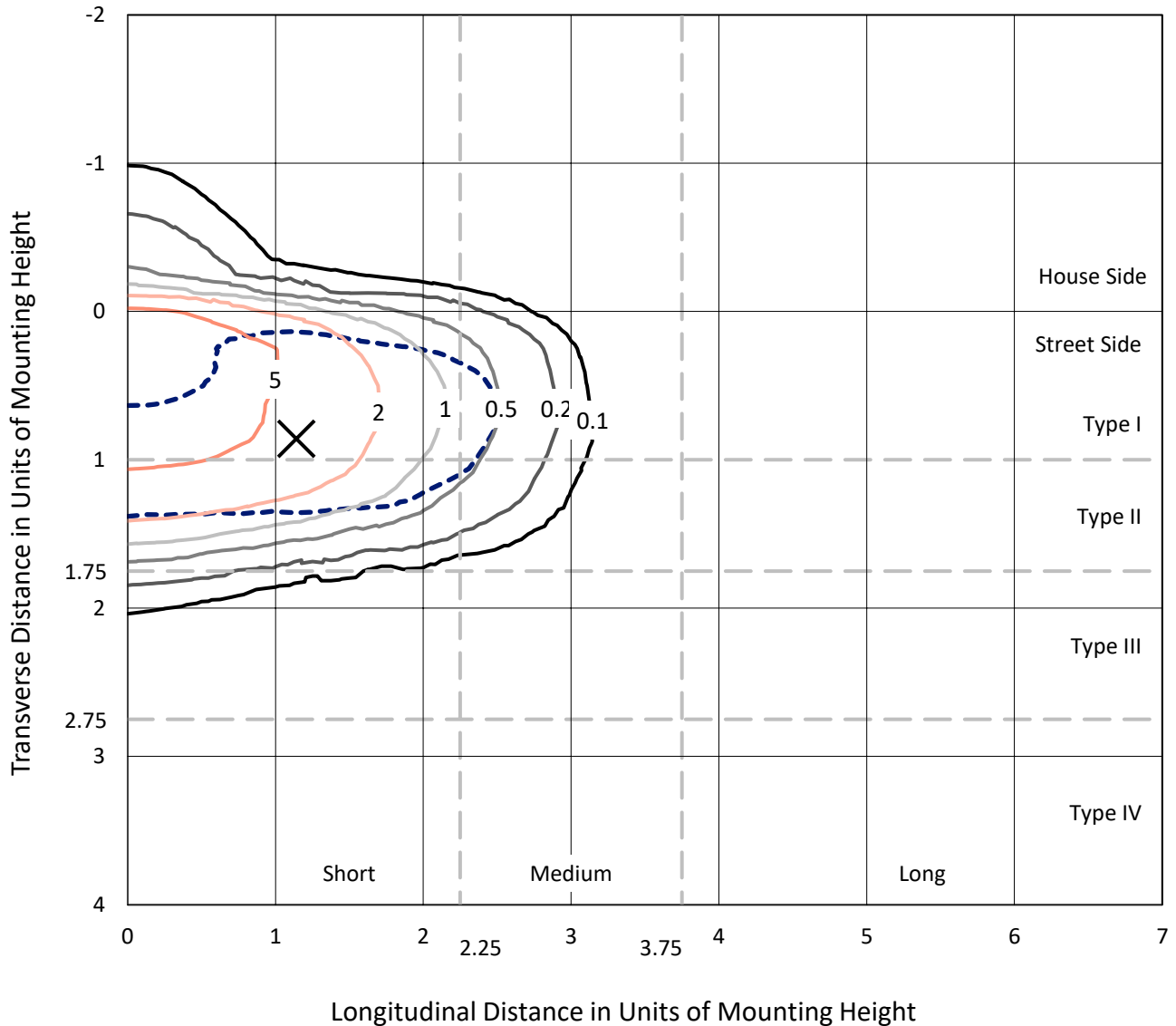
Lumens per Lamp: N/A  
Luminaire Lumens: 5511.6 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 62.1  
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

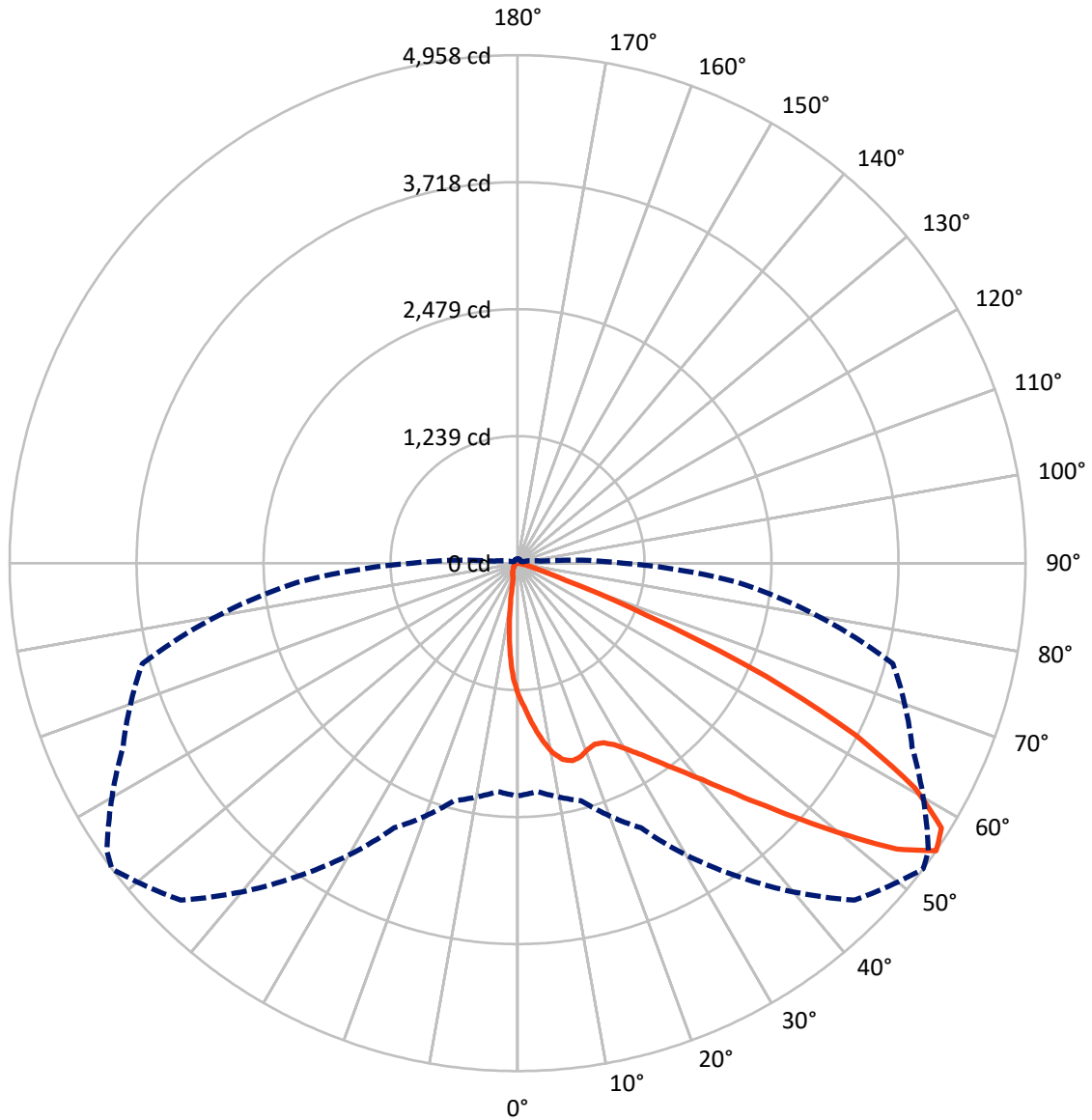
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.3 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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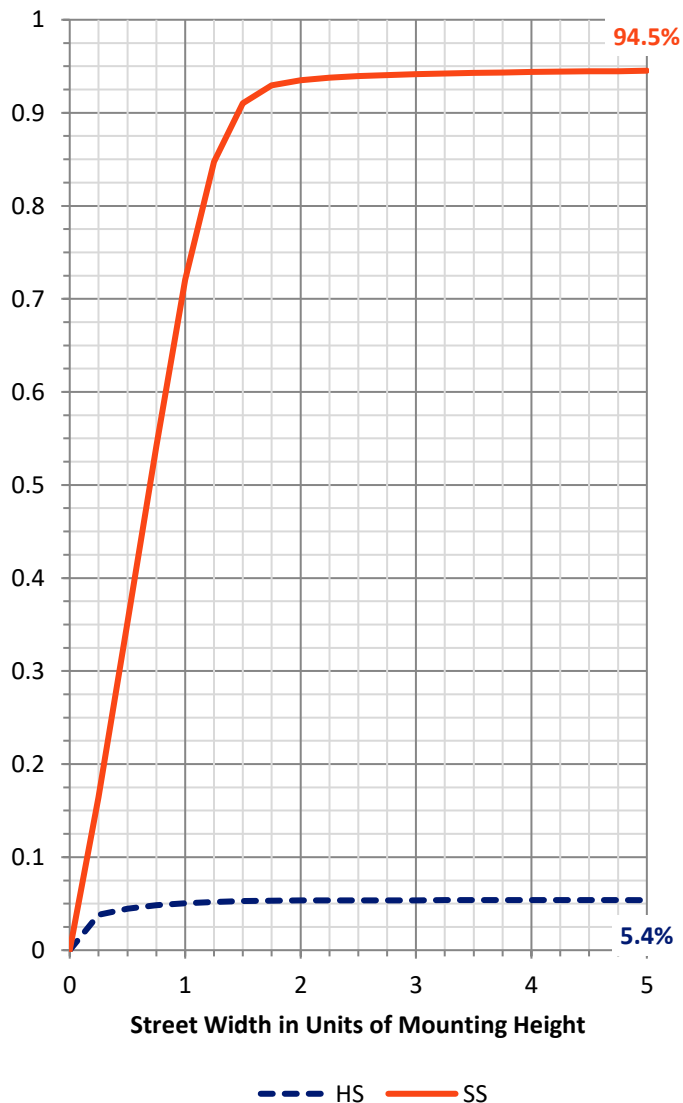
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	297.9	0.0	297.9
	% Fixture	5.4	0.0	5.4
<b>Street Side</b>	Lumens	5213.7	0.0	5213.7
	% Fixture	94.6	0.0	94.6
<b>Total</b>	Lumens	5511.6	0.0	5511.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.3	2.1
10°-20°	301.3	5.5
20°-30°	504.3	9.2
30°-40°	825.1	15.0
40°-50°	1326.3	24.1
50°-60°	1497.4	27.2
60°-70°	798.8	14.5
70°-80°	131.2	2.4
80°-90°	11.7	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°	5511.6	100.0
0°-180°	5511.6	100.0



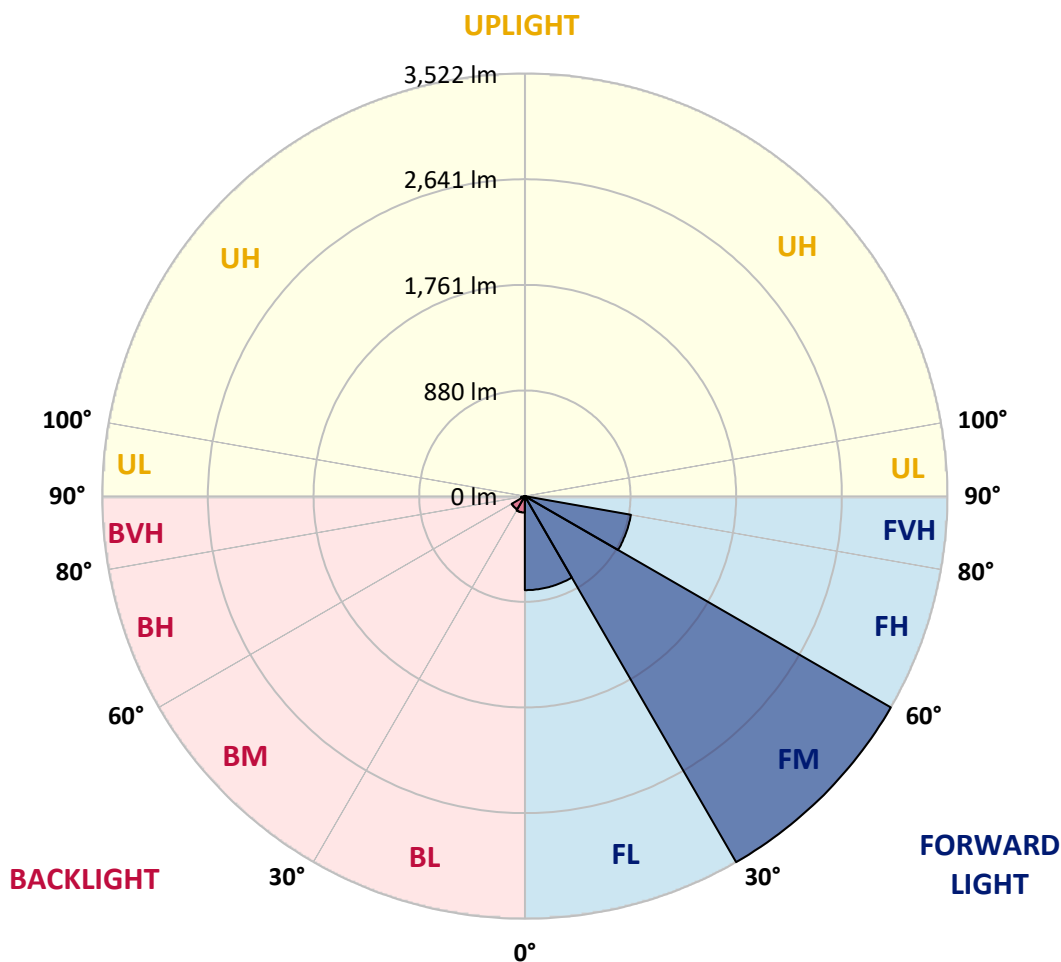
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	783.5	14.2			
FM (30°-60°)	3521.9	63.9			
FH (60°-80°)	897.4	16.3			G1/1800
FVH (80°-90°)	10.8	0.2			G1/100
BL (0°-30°)	137.5	2.5	B1/500		
BM (30°-60°)	126.9	2.3	B0/220		
BH (60°-80°)	32.6	0.6	B0/110		G0/110
BVH (80°-90°)	1.0	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°	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8
2.5°	1546.7	1537.6	1542.9	1528.9	1503.3	1471.4	1423.6	1426.0	1388.4	1355.5	1310.1
5°	1802.2	1792.5	1789.7	1753.9	1718.2	1660.7	1589.7	1578.1	1509.1	1425.5	1330.4
7.5°	1936.9	1928.7	1935.0	1922.0	1886.7	1834.6	1744.7	1736.0	1629.3	1502.8	1362.8
10°	1875.1	1872.2	1898.8	1929.7	1958.2	1951.9	1880.0	1866.4	1746.7	1587.8	1396.1
12.5°	1709.0	1718.2	1752.0	1809.0	1896.9	1979.4	1967.8	1970.3	1866.4	1680.0	1432.8
15°	1611.5	1622.6	1641.9	1671.3	1779.5	1926.3	2001.2	2025.3	1981.4	1782.9	1476.2
17.5°	1603.2	1612.4	1615.3	1626.4	1689.7	1840.8	1987.6	2033.5	2083.7	1880.0	1525.0
20°	1666.5	1670.4	1668.0	1659.7	1682.4	1794.5	1945.1	2010.8	2168.2	1983.3	1568.0
22.5°	1785.8	1780.0	1772.7	1742.3	1740.9	1807.5	1922.0	1990.5	2218.5	2068.8	1596.5
25°	1933.6	1921.5	1911.3	1868.4	1848.1	1875.6	1942.7	1997.8	2263.9	2151.8	1616.8
27.5°	2094.8	2098.7	2073.6	2015.7	1983.8	1978.0	2007.0	2048.0	2307.8	2226.2	1627.9
30°	2267.2	2269.2	2236.3	2176.5	2147.5	2110.3	2108.4	2133.0	2355.1	2311.7	1638.5
32.5°	2463.8	2469.1	2415.5	2353.2	2302.5	2254.2	2230.5	2251.3	2440.1	2423.2	1660.2
35°	2747.7	2724.6	2652.1	2558.0	2486.0	2422.7	2386.5	2400.0	2553.1	2557.0	1703.7
37.5°	3040.4	3038.0	2957.8	2822.1	2704.3	2625.6	2563.7	2586.0	2712.0	2736.1	1773.2
40°	3313.2	3319.5	3250.0	3131.6	2980.0	2844.8	2778.6	2793.6	2923.0	2953.5	1857.7
42.5°	3491.4	3488.0	3493.3	3459.5	3307.4	3148.1	3048.6	3056.8	3168.3	3184.3	1963.5
45°	3573.5	3560.5	3605.9	3713.1	3652.7	3485.1	3371.7	3361.5	3422.8	3418.5	2059.6
47.5°	3502.5	3478.4	3582.7	3841.0	3957.9	3907.2	3744.9	3726.6	3674.4	3639.7	2159.6
50°	3149.5	3138.9	3362.0	3780.2	4149.6	4297.4	4178.1	4110.0	3899.0	3802.9	2212.2
52.5°	2813.9	2784.4	2935.1	3469.7	4064.1	4611.3	4635.9	4514.7	4085.4	3849.7	2194.3
55°	2273.0	2236.8	2401.0	2850.6	3725.6	4651.4	4957.5	4894.3	4248.6	3791.8	2158.1
57.5°	1380.6	1344.9	1586.3	2041.7	2979.5	4318.1	4878.3	4942.5	4374.2	3728.0	2134.4
60°	580.5	557.8	652.4	974.5	1902.7	3548.9	4458.2	4618.5	4397.8	3640.6	2144.1
62.5°	301.8	291.7	297.0	390.2	769.3	2336.8	3710.7	3989.8	4159.3	3602.0	2153.8
65°	226.5	218.8	201.9	214.4	298.9	1010.2	2666.6	3040.4	3642.1	3504.0	2088.6
67.5°	185.9	178.7	166.6	162.7	176.3	350.6	1361.3	1847.1	2854.0	3086.3	1854.8
70°	148.3	145.8	142.0	134.7	132.3	170.0	488.2	752.9	1887.2	2176.5	1344.4
72.5°	123.6	124.1	119.8	113.5	104.8	109.6	194.6	257.4	913.2	1043.6	563.1
75°	103.3	103.3	104.8	96.1	87.4	75.3	108.2	125.6	293.1	241.0	120.2
77.5°	81.1	82.1	88.4	81.1	70.0	47.3	58.9	67.1	86.9	69.5	43.9
80°	64.7	63.7	61.3	72.9	62.8	33.3	28.0	30.9	40.6	33.3	21.7
82.5°	45.4	44.9	43.0	49.3	48.8	24.6	18.4	18.8	24.6	21.2	13.5
85°	11.1	13.0	27.5	23.2	20.3	14.5	11.1	12.1	15.9	14.0	7.2
87.5°	4.8	4.8	12.6	15.0	9.7	6.3	4.8	5.3	8.2	8.2	4.3
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°	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8	1289.8
2.5°	1294.2	1262.8	1223.2	1181.2	1138.2	1086.5	1053.7	1026.7	1005.4	989.0	983.2
5°	1299.0	1238.7	1148.8	1037.3	923.8	817.6	735.5	674.6	624.4	596.9	584.8
7.5°	1298.5	1218.4	1056.1	869.2	684.8	531.7	423.0	355.9	311.0	292.6	281.5
10°	1298.1	1191.8	950.4	682.8	457.8	308.1	227.0	189.3	172.9	166.6	165.6
12.5°	1312.1	1161.4	832.0	502.7	287.3	191.7	157.9	149.2	145.4	143.4	142.9
15°	1319.8	1133.4	707.5	354.9	193.6	151.6	141.0	137.1	135.7	134.7	134.2
17.5°	1328.0	1089.9	589.1	256.9	155.0	137.6	131.4	128.9	128.0	128.0	128.0
20°	1329.4	1043.1	471.8	189.3	137.6	128.5	122.2	119.8	118.3	117.3	117.3
22.5°	1318.8	987.5	370.9	153.6	127.5	119.8	113.0	109.1	106.7	106.2	106.2
25°	1292.3	908.8	284.4	134.7	119.3	111.1	102.9	98.5	96.6	96.6	96.6
27.5°	1254.1	816.1	219.7	119.8	108.7	100.4	93.2	89.3	88.9	88.4	88.9
30°	1210.6	726.8	168.1	106.2	96.1	89.3	83.5	81.6	82.6	82.6	83.1
32.5°	1167.2	637.4	131.4	95.6	85.0	79.2	76.3	76.3	77.7	77.7	77.7
35°	1130.0	550.0	110.1	86.9	77.3	72.4	71.0	72.4	73.4	73.9	73.9
37.5°	1109.2	474.7	97.1	79.2	71.0	67.1	66.6	68.1	70.0	71.5	72.0
40°	1101.5	416.7	89.3	73.4	65.2	62.8	62.3	64.2	67.6	70.0	70.5
42.5°	1102.0	365.6	82.6	67.6	61.3	57.9	57.9	60.8	64.2	66.6	66.6
45°	1105.4	321.6	75.8	61.8	57.9	52.2	52.6	56.5	58.9	61.3	61.3
47.5°	1108.3	286.4	68.6	55.5	50.2	47.3	48.3	51.2	54.6	58.4	58.4
50°	1091.4	261.3	61.3	48.8	43.9	43.0	44.9	47.3	52.2	56.0	56.5
52.5°	1050.8	238.6	55.1	43.5	39.6	40.1	42.5	43.9	47.8	48.3	48.8
55°	1032.9	227.0	50.2	39.6	36.2	37.7	39.1	39.6	38.6	36.2	36.2
57.5°	1029.1	219.2	45.4	35.7	33.3	35.3	34.8	31.9	29.0	26.1	25.6
60°	1032.9	208.6	41.5	30.9	30.4	30.9	29.5	24.1	20.3	18.4	17.4
62.5°	1010.7	193.2	38.1	26.6	26.6	26.1	22.2	16.4	13.0	11.6	11.1
65°	937.3	162.7	34.8	22.2	21.7	20.8	15.0	11.1	8.7	7.2	6.8
67.5°	792.9	126.0	31.4	18.4	17.4	14.5	9.7	7.2	4.8	4.3	3.9
70°	540.9	78.2	26.6	14.5	13.0	9.2	5.8	4.3	2.9	2.4	1.9
72.5°	196.1	45.4	22.2	11.1	8.7	5.8	3.4	1.9	1.4	1.4	1.0
75°	46.4	31.9	16.9	8.2	5.8	3.4	1.9	1.4	1.0	1.0	0.5
77.5°	21.2	24.6	11.1	4.8	3.9	2.4	1.4	1.0	0.5	0.5	0.0
80°	12.1	17.4	5.3	3.4	2.9	1.9	1.0	0.5	0.5	0.0	0.0
82.5°	6.3	9.7	3.9	2.9	2.4	1.4	1.0	0.0	0.0	0.0	0.0
85°	4.3	4.8	2.9	2.4	1.9	1.4	1.0	0.0	0.0	0.0	0.0
87.5°	3.4	3.4	2.9	2.4	1.9	1.4	0.5	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)