

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: P674501

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

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674501  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2E-850-U-AFL-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1050mA w/ AFL distribution lens and House Side Shield  
Light Source: (32) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

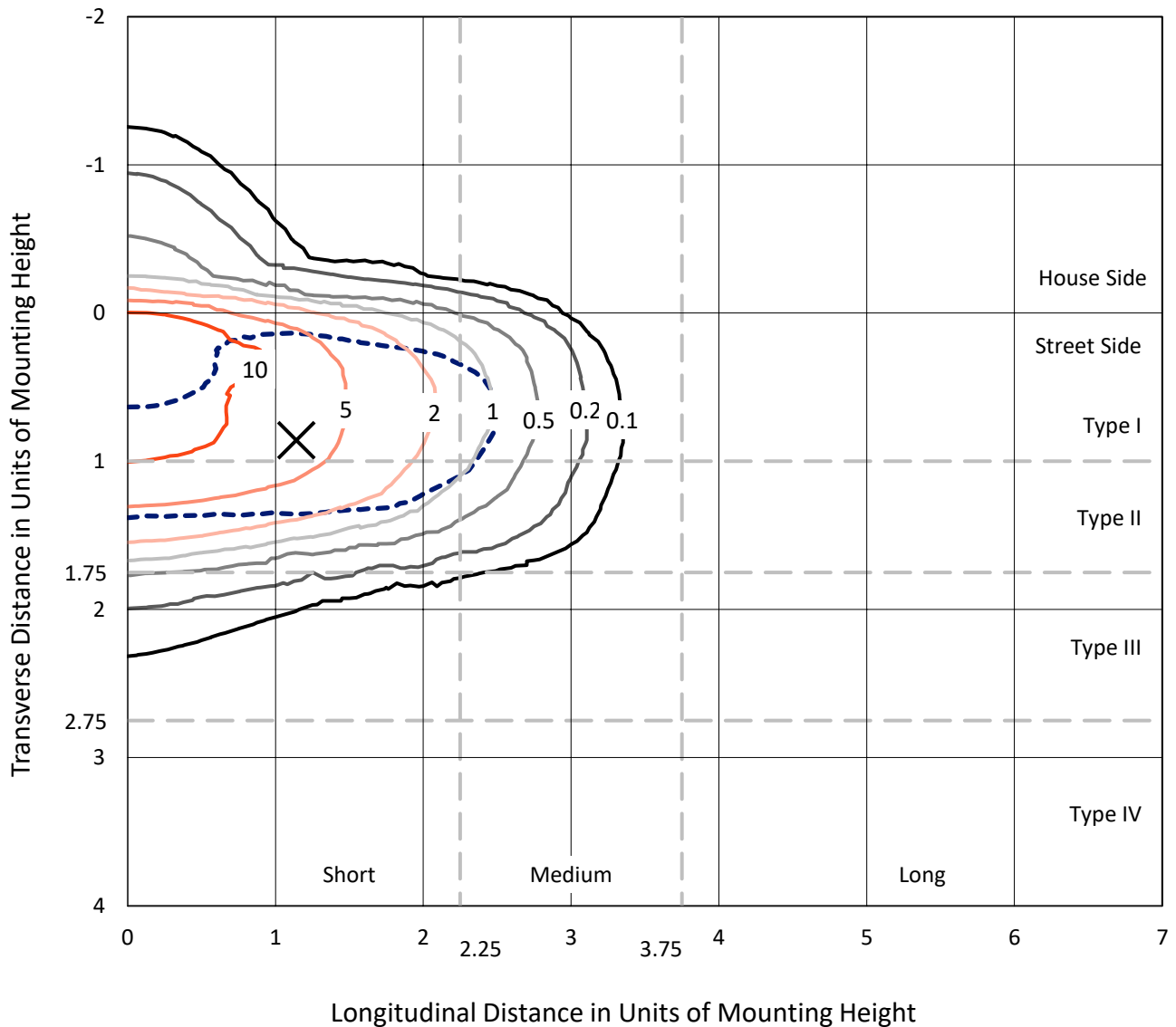
Lumens per Lamp: N/A  
Luminaire Lumens: 9894 lumens  
Efficiency: N/A  
Efficacy: 92.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 106.6  
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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 CATALOG NUMBER: CCP-SA-2E-850-U-AFL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

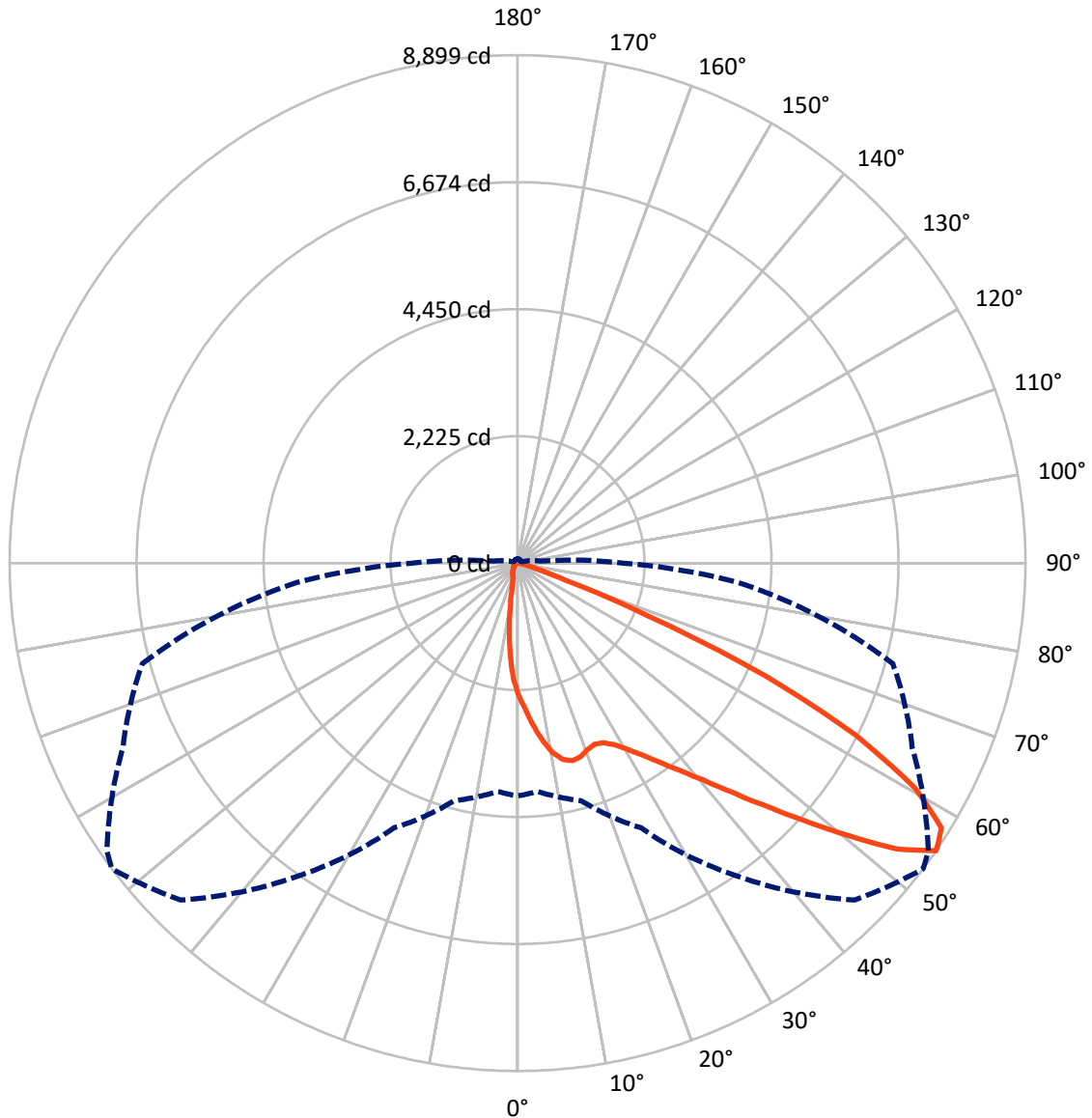
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 14.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P674501  
CATALOG NUMBER: CCP-SA-2E-850-U-AFL-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P674501

CATALOG NUMBER: CCP-SA-2E-850-U-AFL-HSS

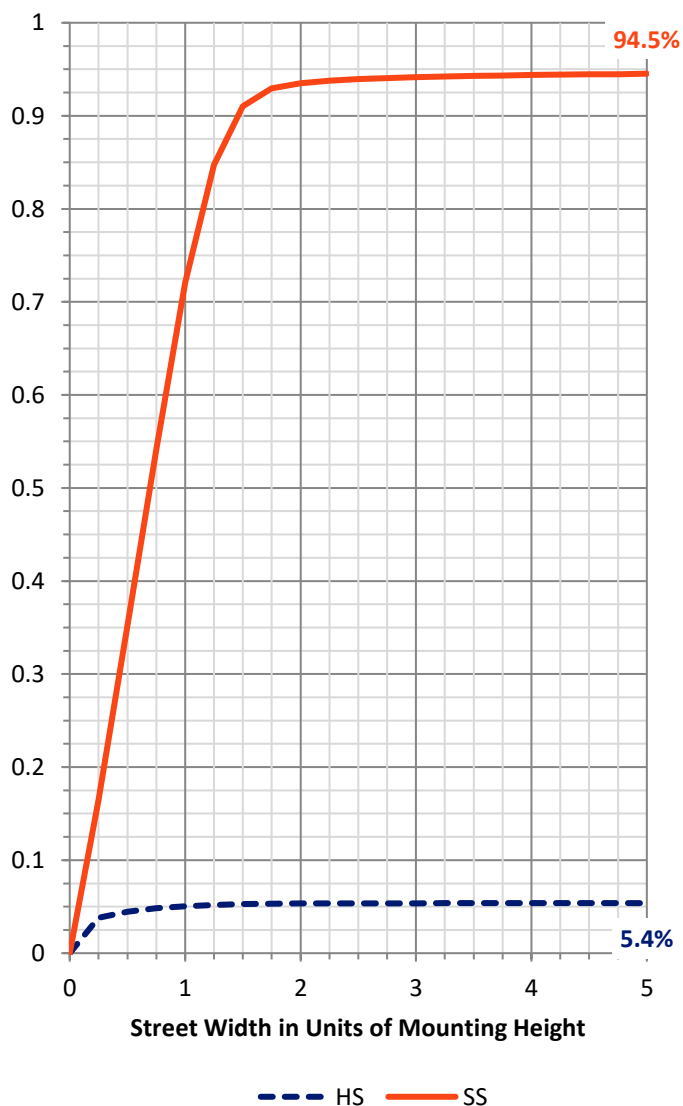
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	534.8	0.0	534.8
	% Fixture	5.4	0.0	5.4
<b>Street Side</b>	Lumens	9359.2	0.0	9359.2
	% Fixture	94.6	0.0	94.6
<b>Total</b>	Lumens	9894.0	0.0	9894.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.0	2.1
10°-20°	540.9	5.5
20°-30°	905.3	9.2
30°-40°	1481.2	15.0
40°-50°	2380.9	24.1
50°-60°	2688.1	27.2
60°-70°	1433.8	14.5
70°-80°	235.6	2.4
80°-90°	21.1	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°	9894.0	100.0
0°-180°	9894.0	100.0



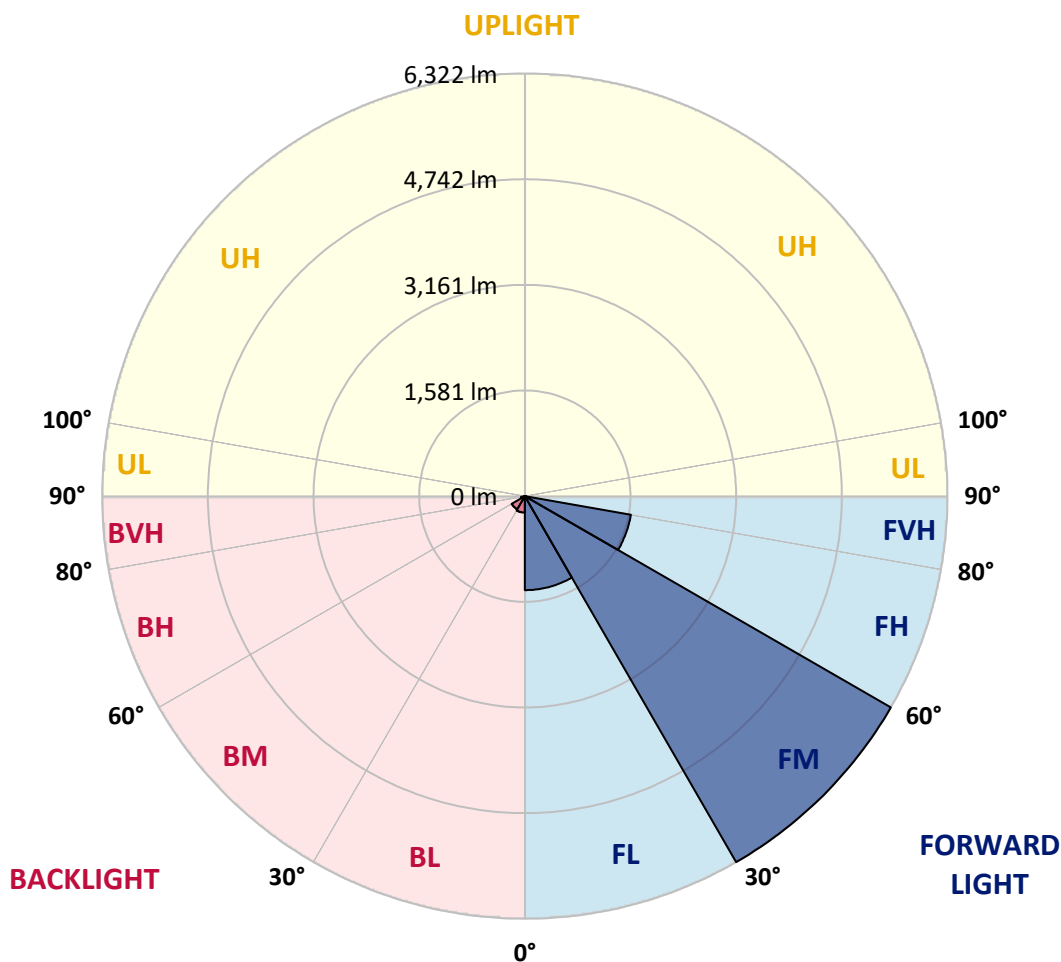
REPORT NUMBER: P674501  
 CATALOG NUMBER: CCP-SA-2E-850-U-AFL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1406.5	14.2			
FM (30°-60°)	6322.3	63.9			
FH (60°-80°)	1611.0	16.3			G1/1800
FVH (80°-90°)	19.4	0.2			G1/100
BL (0°-30°)	246.8	2.5	B1/500		
BM (30°-60°)	227.8	2.3	B1/1000		
BH (60°-80°)	58.5	0.6	B0/110		G0/110
BVH (80°-90°)	1.7	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





REPORT NUMBER: P674501

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4
2.5°	2776.6	2760.1	2769.7	2744.5	2698.6	2641.4	2555.5	2559.9	2492.3	2433.3	2351.8
5°	3235.2	3217.8	3212.6	3148.5	3084.3	2981.2	2853.7	2832.9	2709.0	2559.0	2388.2
7.5°	3477.0	3462.3	3473.6	3450.2	3386.9	3293.3	3132.0	3116.4	2924.8	2697.7	2446.3
10°	3366.1	3360.9	3408.5	3464.0	3515.2	3503.9	3374.7	3350.5	3135.5	2850.3	2506.1
12.5°	3067.9	3084.3	3145.0	3247.3	3405.1	3553.3	3532.5	3536.8	3350.5	3015.9	2572.0
15°	2892.8	2912.7	2947.4	3000.2	3194.4	3458.0	3592.3	3635.7	3556.8	3200.5	2650.0
17.5°	2878.0	2894.5	2899.7	2919.6	3033.2	3304.5	3568.1	3650.4	3740.6	3374.7	2737.6
20°	2991.6	2998.5	2994.2	2979.4	3020.2	3221.3	3491.8	3609.7	3892.3	3560.2	2814.7
22.5°	3205.7	3195.3	3182.3	3127.7	3125.1	3244.7	3450.2	3573.3	3982.4	3713.7	2865.9
25°	3471.0	3449.3	3431.1	3353.9	3317.5	3366.9	3487.4	3586.3	4063.9	3862.8	2902.3
27.5°	3760.5	3767.4	3722.4	3618.3	3561.1	3550.7	3602.7	3676.4	4142.8	3996.3	2922.2
30°	4070.0	4073.4	4014.5	3907.0	3855.0	3788.2	3784.8	3829.0	4227.7	4149.7	2941.3
32.5°	4422.8	4432.3	4336.1	4224.3	4133.3	4046.6	4004.1	4041.4	4380.3	4350.0	2980.3
35°	4932.5	4890.9	4760.9	4591.8	4462.7	4349.1	4284.1	4308.4	4583.2	4590.1	3058.3
37.5°	5457.8	5453.5	5309.6	5066.0	4854.5	4713.2	4602.2	4642.1	4868.4	4911.7	3183.2
40°	5947.6	5958.9	5834.1	5621.7	5349.5	5106.8	4988.0	5014.9	5247.2	5301.8	3334.9
42.5°	6267.5	6261.4	6271.0	6210.3	5937.2	5651.1	5472.6	5487.3	5687.6	5716.2	3524.7
45°	6414.9	6391.5	6472.9	6665.4	6557.0	6256.2	6052.5	6034.3	6144.4	6136.6	3697.2
47.5°	6287.4	6244.1	6431.3	6895.1	7104.9	7013.9	6722.6	6689.7	6596.0	6533.6	3876.7
50°	5653.7	5634.7	6035.2	6785.9	7449.0	7714.3	7500.2	7378.0	6999.1	6826.6	3971.1
52.5°	5051.3	4998.4	5268.9	6228.5	7295.6	8277.8	8322.0	8104.4	7333.7	6910.7	3939.1
55°	4080.4	4015.4	4310.1	5117.2	6687.9	8349.7	8899.3	8785.8	7626.8	6806.7	3874.1
57.5°	2478.4	2414.2	2847.7	3665.1	5348.6	7751.6	8757.2	8872.4	7852.1	6692.3	3831.6
60°	1042.0	1001.2	1171.1	1749.4	3415.5	6370.7	8003.0	8290.8	7894.6	6535.4	3848.9
62.5°	541.8	523.6	533.1	700.4	1380.9	4194.8	6661.1	7162.1	7466.4	6466.0	3866.3
65°	406.6	392.7	362.4	384.9	536.6	1813.5	4786.9	5457.8	6538.0	6290.0	3749.2
67.5°	333.7	320.7	299.1	292.1	316.4	629.4	2443.7	3315.8	5123.2	5540.2	3329.7
70°	266.1	261.8	254.9	241.9	237.5	305.1	876.4	1351.5	3387.7	3907.0	2413.4
72.5°	221.9	222.8	215.0	203.7	188.1	196.8	349.3	462.0	1639.3	1873.3	1010.8
75°	185.5	185.5	188.1	172.5	156.9	135.2	194.2	225.4	526.2	432.6	215.9
77.5°	145.6	147.4	158.6	145.6	125.7	85.0	105.8	120.5	156.0	124.8	78.9
80°	116.2	114.4	110.1	130.9	112.7	59.8	50.3	55.5	72.8	59.8	39.0
82.5°	81.5	80.6	77.2	88.4	87.6	44.2	32.9	33.8	44.2	38.1	24.3
85°	19.9	23.4	49.4	41.6	36.4	26.0	19.9	21.7	28.6	25.1	13.0
87.5°	8.7	8.7	22.5	26.9	17.3	11.3	8.7	9.5	14.7	14.7	7.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P674501  
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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4	2315.4
2.5°	2323.2	2266.9	2195.8	2120.4	2043.2	1950.5	1891.5	1843.0	1804.8	1775.4	1765.0
5°	2331.9	2223.5	2062.3	1862.0	1658.3	1467.6	1320.2	1211.0	1120.9	1071.5	1049.8
7.5°	2331.0	2187.1	1895.9	1560.4	1229.2	954.4	759.4	638.9	558.3	525.3	505.4
10°	2330.2	2139.4	1706.0	1225.8	821.8	553.1	407.4	339.8	310.3	299.1	297.3
12.5°	2355.3	2084.8	1493.6	902.4	515.8	344.1	283.5	267.9	260.9	257.5	256.6
15°	2369.2	2034.6	1270.0	637.2	347.6	272.2	253.1	246.2	243.6	241.9	241.0
17.5°	2383.9	1956.5	1057.6	461.2	278.3	247.1	235.8	231.5	229.7	229.7	229.7
20°	2386.5	1872.4	846.9	339.8	247.1	230.6	219.3	215.0	212.4	210.7	210.7
22.5°	2367.4	1772.8	665.8	275.7	228.9	215.0	202.8	195.9	191.6	190.7	190.7
25°	2319.8	1631.5	510.6	241.9	214.1	199.4	184.6	176.8	173.4	173.4	173.4
27.5°	2251.3	1465.0	394.4	215.0	195.0	180.3	167.3	160.4	159.5	158.6	159.5
30°	2173.3	1304.6	301.7	190.7	172.5	160.4	150.0	146.5	148.2	148.2	149.1
32.5°	2095.2	1144.3	235.8	171.6	152.6	142.2	137.0	137.0	139.6	139.6	139.6
35°	2028.5	987.4	197.6	156.0	138.7	130.0	127.4	130.0	131.8	132.6	132.6
37.5°	1991.2	852.1	174.2	142.2	127.4	120.5	119.6	122.2	125.7	128.3	129.2
40°	1977.3	748.1	160.4	131.8	117.0	112.7	111.8	115.3	121.4	125.7	126.6
42.5°	1978.2	656.2	148.2	121.4	110.1	104.0	104.0	109.2	115.3	119.6	119.6
45°	1984.3	577.3	136.1	111.0	104.0	93.6	94.5	101.4	105.8	110.1	110.1
47.5°	1989.5	514.1	123.1	99.7	90.2	85.0	86.7	91.9	98.0	104.9	104.9
50°	1959.1	469.0	110.1	87.6	78.9	77.2	80.6	85.0	93.6	100.6	101.4
52.5°	1886.3	428.2	98.8	78.0	71.1	72.0	76.3	78.9	85.8	86.7	87.6
55°	1854.2	407.4	90.2	71.1	65.0	67.6	70.2	71.1	69.3	65.0	65.0
57.5°	1847.3	393.6	81.5	64.1	59.8	63.3	62.4	57.2	52.0	46.8	45.9
60°	1854.2	374.5	74.6	55.5	54.6	55.5	52.9	43.3	36.4	32.9	31.2
62.5°	1814.4	346.7	68.5	47.7	47.7	46.8	39.9	29.5	23.4	20.8	19.9
65°	1682.6	292.1	62.4	39.9	39.0	37.3	26.9	19.9	15.6	13.0	12.1
67.5°	1423.4	226.3	56.3	32.9	31.2	26.0	17.3	13.0	8.7	7.8	6.9
70°	970.9	140.4	47.7	26.0	23.4	16.5	10.4	7.8	5.2	4.3	3.5
72.5°	352.0	81.5	39.9	19.9	15.6	10.4	6.1	3.5	2.6	2.6	1.7
75°	83.2	57.2	30.3	14.7	10.4	6.1	3.5	2.6	1.7	1.7	0.9
77.5°	38.1	44.2	19.9	8.7	6.9	4.3	2.6	1.7	0.9	0.9	0.0
80°	21.7	31.2	9.5	6.1	5.2	3.5	1.7	0.9	0.9	0.0	0.0
82.5°	11.3	17.3	6.9	5.2	4.3	2.6	1.7	0.0	0.0	0.0	0.0
85°	7.8	8.7	5.2	4.3	3.5	2.6	1.7	0.0	0.0	0.0	0.0
87.5°	6.1	6.1	5.2	4.3	3.5	2.6	0.9	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)