

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: P674401

Luminaire Tested: **CCP-SA-2D-730-U-AFL-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674401  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2D-730-U-AFL-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ AFL distribution lens and House Side Shield  
Light Source: (32) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

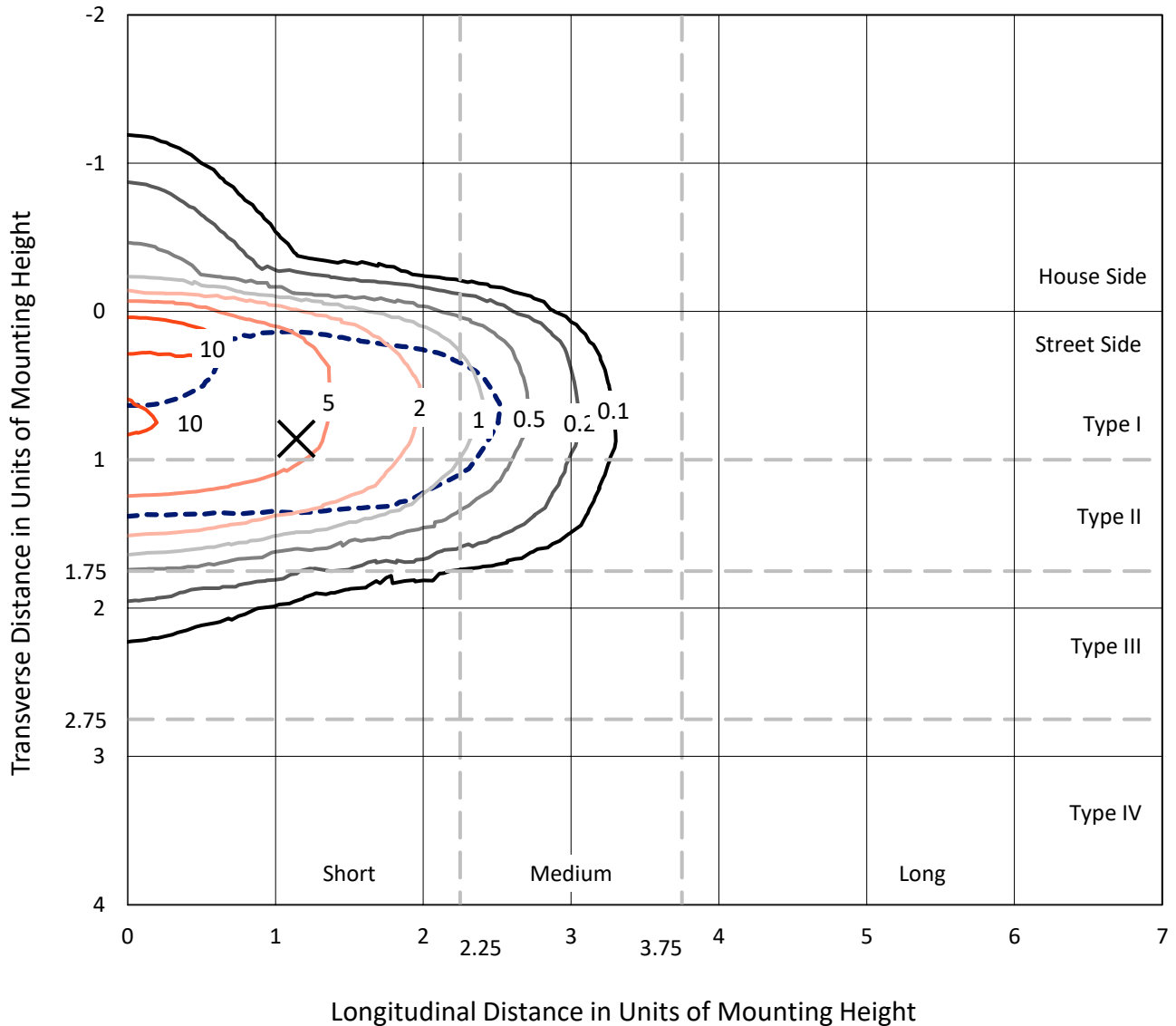
Lumens per Lamp: N/A  
Luminaire Lumens: 8421.7 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 80.8  
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

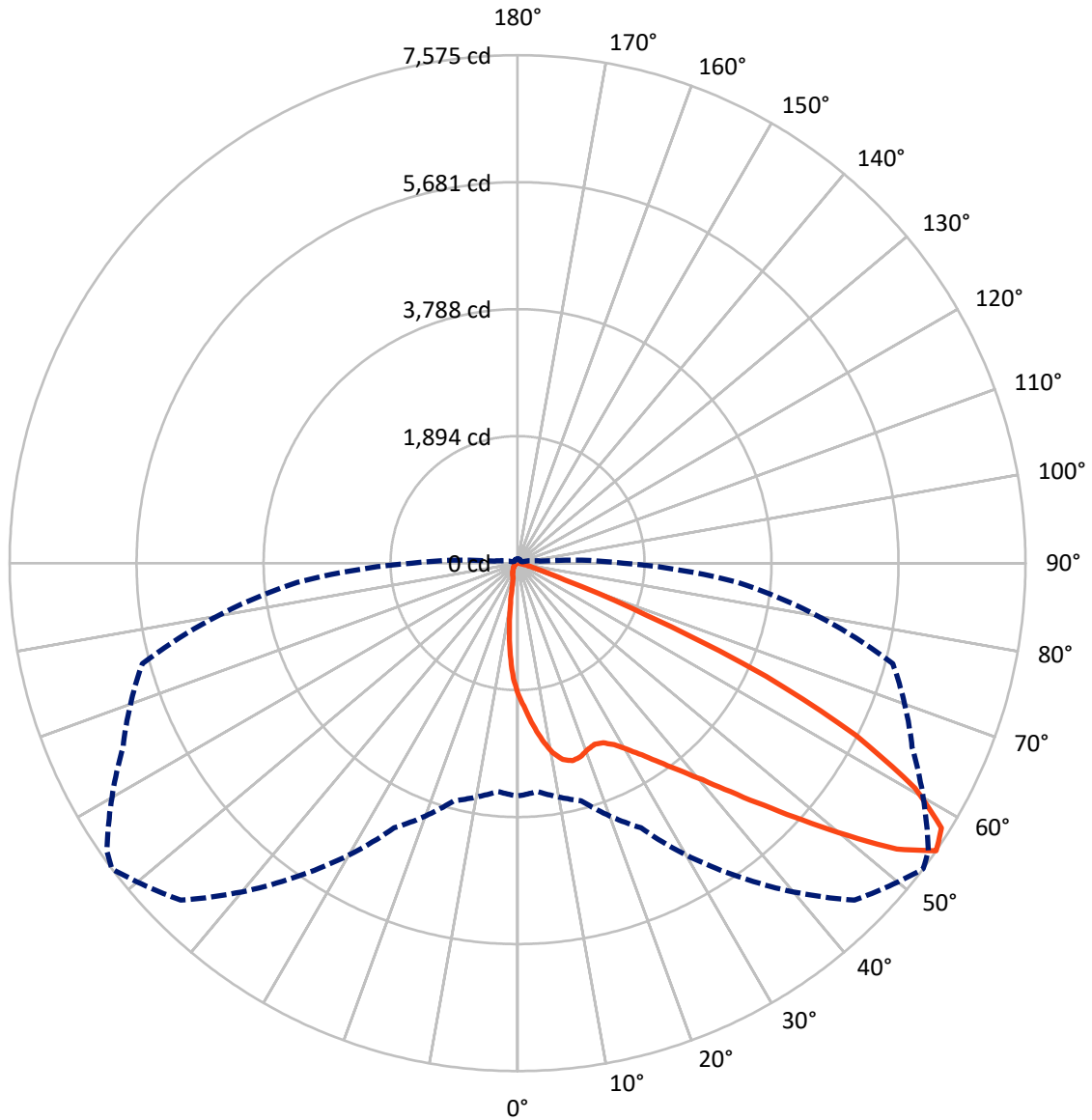
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 12.7 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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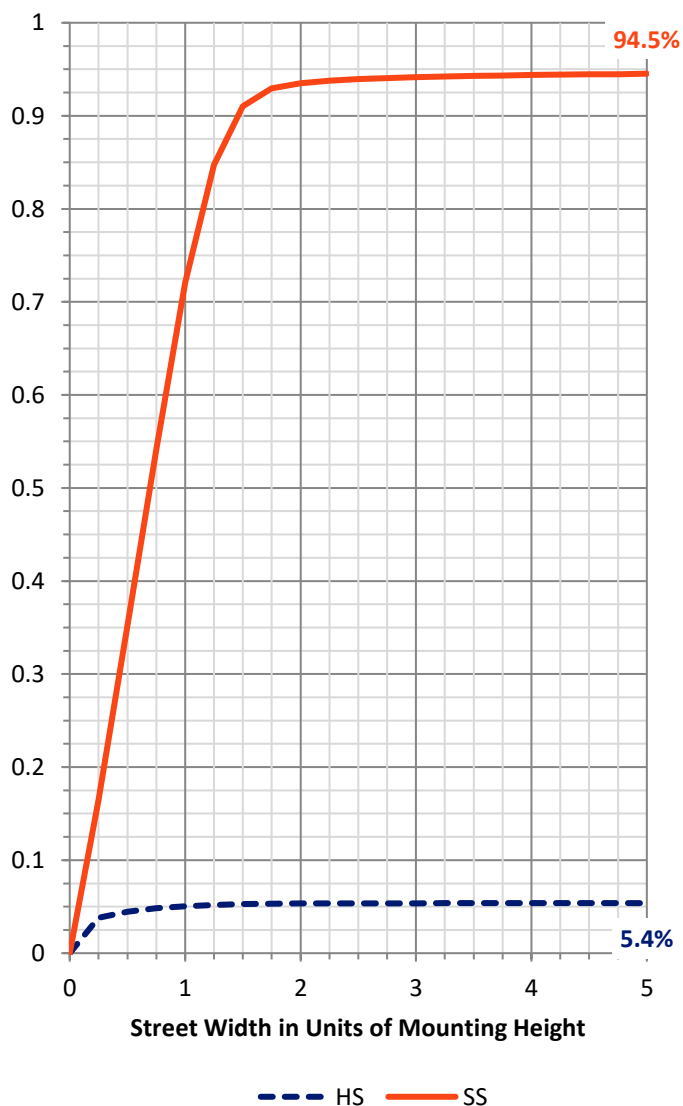
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	455.2	0.0	455.2
	% Fixture	5.4	0.0	5.4
<b>Street Side</b>	Lumens	7966.5	0.0	7966.5
	% Fixture	94.6	0.0	94.6
<b>Total</b>	Lumens	8421.7	0.0	8421.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.2	2.1
10°-20°	460.4	5.5
20°-30°	770.6	9.2
30°-40°	1260.8	15.0
40°-50°	2026.6	24.1
50°-60°	2288.1	27.2
60°-70°	1220.5	14.5
70°-80°	200.5	2.4
80°-90°	18.0	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°	8421.7	100.0
0°-180°	8421.7	100.0



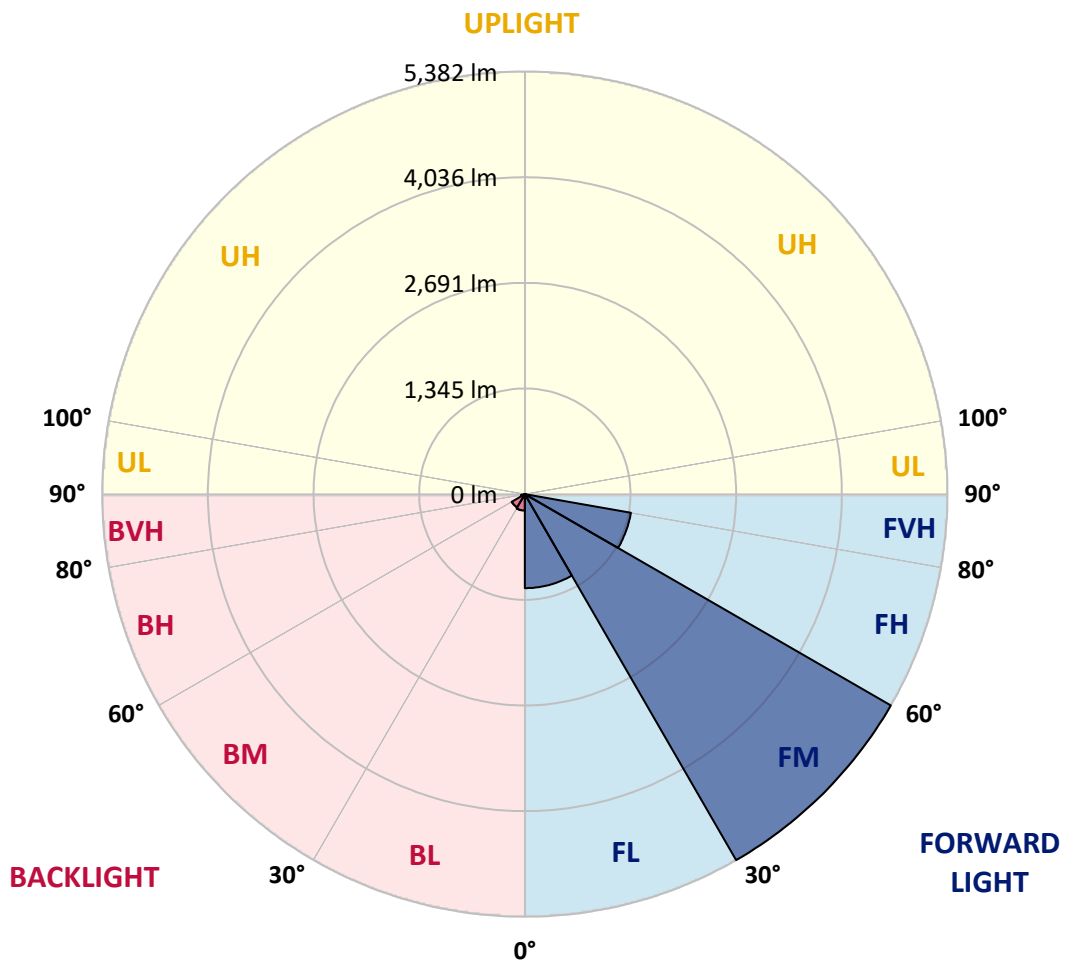
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1197.2	14.2			
FM (30°-60°)	5381.5	63.9			
FH (60°-80°)	1371.3	16.3			G1/1800
FVH (80°-90°)	16.5	0.2			G1/100
BL (0°-30°)	210.1	2.5	B1/500		
BM (30°-60°)	193.9	2.3	B0/220		
BH (60°-80°)	49.8	0.6	B0/110		G0/110
BVH (80°-90°)	1.5	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°	1970.9	1970.9	1970.9	1970.9	1970.9	1970.9	1970.9	1970.9	1970.9	1970.9	1970.9
2.5°	2363.4	2349.4	2357.5	2336.1	2297.0	2248.3	2175.3	2179.0	2121.4	2071.2	2001.9
5°	2753.8	2739.0	2734.6	2680.0	2625.4	2537.6	2429.1	2411.4	2305.9	2178.2	2032.9
7.5°	2959.6	2947.1	2956.7	2936.8	2882.9	2803.2	2666.0	2652.7	2489.6	2296.3	2082.3
10°	2865.2	2860.8	2901.3	2948.6	2992.1	2982.5	2872.6	2851.9	2668.9	2426.1	2133.2
12.5°	2611.4	2625.4	2677.0	2764.1	2898.4	3024.6	3006.9	3010.5	2851.9	2567.1	2189.3
15°	2462.3	2479.3	2508.8	2553.8	2719.1	2943.4	3057.8	3094.7	3027.5	2724.3	2255.7
17.5°	2449.8	2463.8	2468.2	2485.2	2581.8	2812.8	3037.1	3107.2	3184.0	2872.6	2330.2
20°	2546.4	2552.3	2548.6	2536.1	2570.8	2742.0	2972.2	3072.5	3313.1	3030.5	2395.9
22.5°	2728.7	2719.8	2708.8	2662.3	2660.1	2761.9	2936.8	3041.5	3389.8	3161.1	2439.4
25°	2954.5	2936.0	2920.5	2854.9	2823.9	2865.9	2968.5	3052.6	3459.2	3288.0	2470.4
27.5°	3200.9	3206.8	3168.5	3079.9	3031.2	3022.4	3066.6	3129.3	3526.3	3401.6	2487.4
30°	3464.3	3467.3	3417.1	3325.6	3281.4	3224.5	3221.6	3259.2	3598.6	3532.2	2503.6
32.5°	3764.7	3772.8	3690.9	3595.7	3518.2	3444.4	3408.3	3440.0	3728.5	3702.7	2536.8
35°	4198.5	4163.1	4052.4	3908.5	3798.6	3701.9	3646.6	3667.3	3901.2	3907.1	2603.2
37.5°	4645.7	4642.0	4519.5	4312.2	4132.1	4011.9	3917.4	3951.3	4143.9	4180.8	2709.5
40°	5062.6	5072.2	4965.9	4785.2	4553.5	4346.8	4245.8	4268.6	4466.4	4512.9	2838.6
42.5°	5334.9	5329.7	5337.8	5286.2	5053.7	4810.2	4658.2	4670.8	4841.2	4865.6	3000.2
45°	5460.3	5440.4	5509.7	5673.6	5581.3	5325.3	5151.9	5136.4	5230.1	5223.5	3147.1
47.5°	5351.8	5314.9	5474.3	5869.1	6047.7	5970.2	5722.3	5694.2	5614.5	5561.4	3299.8
50°	4812.5	4796.2	5137.1	5776.1	6340.6	6566.4	6384.1	6280.1	5957.6	5810.8	3380.2
52.5°	4299.6	4254.6	4484.8	5301.7	6210.0	7046.0	7083.6	6898.4	6242.5	5882.4	3352.9
55°	3473.2	3417.9	3668.7	4355.7	5692.7	7107.3	7575.1	7478.4	6491.9	5793.8	3297.6
57.5°	2109.6	2055.0	2423.9	3119.8	4552.7	6598.1	7454.1	7552.2	6683.7	5696.4	3261.4
60°	886.9	852.3	996.9	1489.0	2907.2	5422.7	6812.1	7057.1	6719.9	5562.9	3276.2
62.5°	461.2	445.7	453.8	596.2	1175.4	3570.6	5669.9	6096.4	6355.4	5503.8	3290.9
65°	346.1	334.3	308.4	327.6	456.7	1543.6	4074.6	4645.7	5565.1	5354.1	3191.3
67.5°	284.1	273.0	254.6	248.7	269.3	535.7	2080.1	2822.4	4360.9	4715.8	2834.2
70°	226.5	222.8	216.9	205.9	202.2	259.7	746.0	1150.4	2883.6	3325.6	2054.3
72.5°	188.9	189.6	183.0	173.4	160.1	167.5	297.4	393.3	1395.3	1594.6	860.4
75°	157.9	157.9	160.1	146.8	133.6	115.1	165.3	191.8	447.9	368.2	183.7
77.5°	124.0	125.4	135.0	124.0	107.0	72.3	90.0	102.6	132.8	106.3	67.1
80°	98.9	97.4	93.7	111.4	95.9	50.9	42.8	47.2	62.0	50.9	33.2
82.5°	69.4	68.6	65.7	75.3	74.5	37.6	28.0	28.8	37.6	32.5	20.7
85°	17.0	19.9	42.1	35.4	31.0	22.1	17.0	18.4	24.4	21.4	11.1
87.5°	7.4	7.4	19.2	22.9	14.8	9.6	7.4	8.1	12.5	12.5	6.6
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°	1970.9	1970.9	1970.9	1970.9	1970.9	1970.9	1970.9	1970.9	1970.9	1970.9	1970.9
2.5°	1977.5	1929.6	1869.0	1804.9	1739.2	1660.2	1610.1	1568.7	1536.3	1511.2	1502.3
5°	1984.9	1892.7	1755.4	1585.0	1411.6	1249.2	1123.8	1030.8	954.1	912.0	893.6
7.5°	1984.2	1861.7	1613.7	1328.2	1046.3	812.4	646.4	543.8	475.2	447.2	430.2
10°	1983.4	1821.1	1452.1	1043.4	699.5	470.8	346.8	289.2	264.2	254.6	253.1
12.5°	2004.8	1774.6	1271.4	768.1	439.0	292.9	241.3	228.0	222.1	219.2	218.4
15°	2016.6	1731.8	1081.0	542.3	295.9	231.7	215.5	209.6	207.3	205.9	205.1
17.5°	2029.2	1665.4	900.2	392.6	236.9	210.3	200.7	197.0	195.5	195.5	195.5
20°	2031.4	1593.8	720.9	289.2	210.3	196.3	186.7	183.0	180.8	179.3	179.3
22.5°	2015.1	1509.0	566.7	234.6	194.8	183.0	172.7	166.8	163.1	162.3	162.3
25°	1974.6	1388.7	434.6	205.9	182.3	169.7	157.2	150.5	147.6	147.6	147.6
27.5°	1916.3	1247.0	335.7	183.0	166.0	153.5	142.4	136.5	135.8	135.0	135.8
30°	1849.9	1110.5	256.8	162.3	146.8	136.5	127.7	124.7	126.2	126.2	126.9
32.5°	1783.5	974.0	200.7	146.1	129.9	121.0	116.6	116.6	118.8	118.8	118.8
35°	1726.6	840.4	168.2	132.8	118.1	110.7	108.5	110.7	112.2	112.9	112.9
37.5°	1694.9	725.3	148.3	121.0	108.5	102.6	101.8	104.0	107.0	109.2	109.9
40°	1683.1	636.8	136.5	112.2	99.6	95.9	95.2	98.1	103.3	107.0	107.7
42.5°	1683.8	558.6	126.2	103.3	93.7	88.5	88.5	93.0	98.1	101.8	101.8
45°	1689.0	491.4	115.8	94.4	88.5	79.7	80.4	86.3	90.0	93.7	93.7
47.5°	1693.4	437.6	104.8	84.9	76.7	72.3	73.8	78.2	83.4	89.3	89.3
50°	1667.6	399.2	93.7	74.5	67.1	65.7	68.6	72.3	79.7	85.6	86.3
52.5°	1605.6	364.5	84.1	66.4	60.5	61.2	64.9	67.1	73.1	73.8	74.5
55°	1578.3	346.8	76.7	60.5	55.3	57.6	59.8	60.5	59.0	55.3	55.3
57.5°	1572.4	335.0	69.4	54.6	50.9	53.9	53.1	48.7	44.3	39.8	39.1
60°	1578.3	318.8	63.5	47.2	46.5	47.2	45.0	36.9	31.0	28.0	26.6
62.5°	1544.4	295.2	58.3	40.6	40.6	39.8	33.9	25.1	19.9	17.7	17.0
65°	1432.2	248.7	53.1	33.9	33.2	31.7	22.9	17.0	13.3	11.1	10.3
67.5°	1211.6	192.6	48.0	28.0	26.6	22.1	14.8	11.1	7.4	6.6	5.9
70°	826.4	119.5	40.6	22.1	19.9	14.0	8.9	6.6	4.4	3.7	3.0
72.5°	299.6	69.4	33.9	17.0	13.3	8.9	5.2	3.0	2.2	2.2	1.5
75°	70.8	48.7	25.8	12.5	8.9	5.2	3.0	2.2	1.5	1.5	0.7
77.5°	32.5	37.6	17.0	7.4	5.9	3.7	2.2	1.5	0.7	0.7	0.0
80°	18.4	26.6	8.1	5.2	4.4	3.0	1.5	0.7	0.7	0.0	0.0
82.5°	9.6	14.8	5.9	4.4	3.7	2.2	1.5	0.0	0.0	0.0	0.0
85°	6.6	7.4	4.4	3.7	3.0	2.2	1.5	0.0	0.0	0.0	0.0
87.5°	5.2	5.2	4.4	3.7	3.0	2.2	0.7	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)