

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: P674478

Luminaire Tested: **CCP-SA-2D-835-U-AFL-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674478  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2D-835-U-AFL-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ AFL distribution lens and House Side Shield  
Light Source: (32) 3500K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

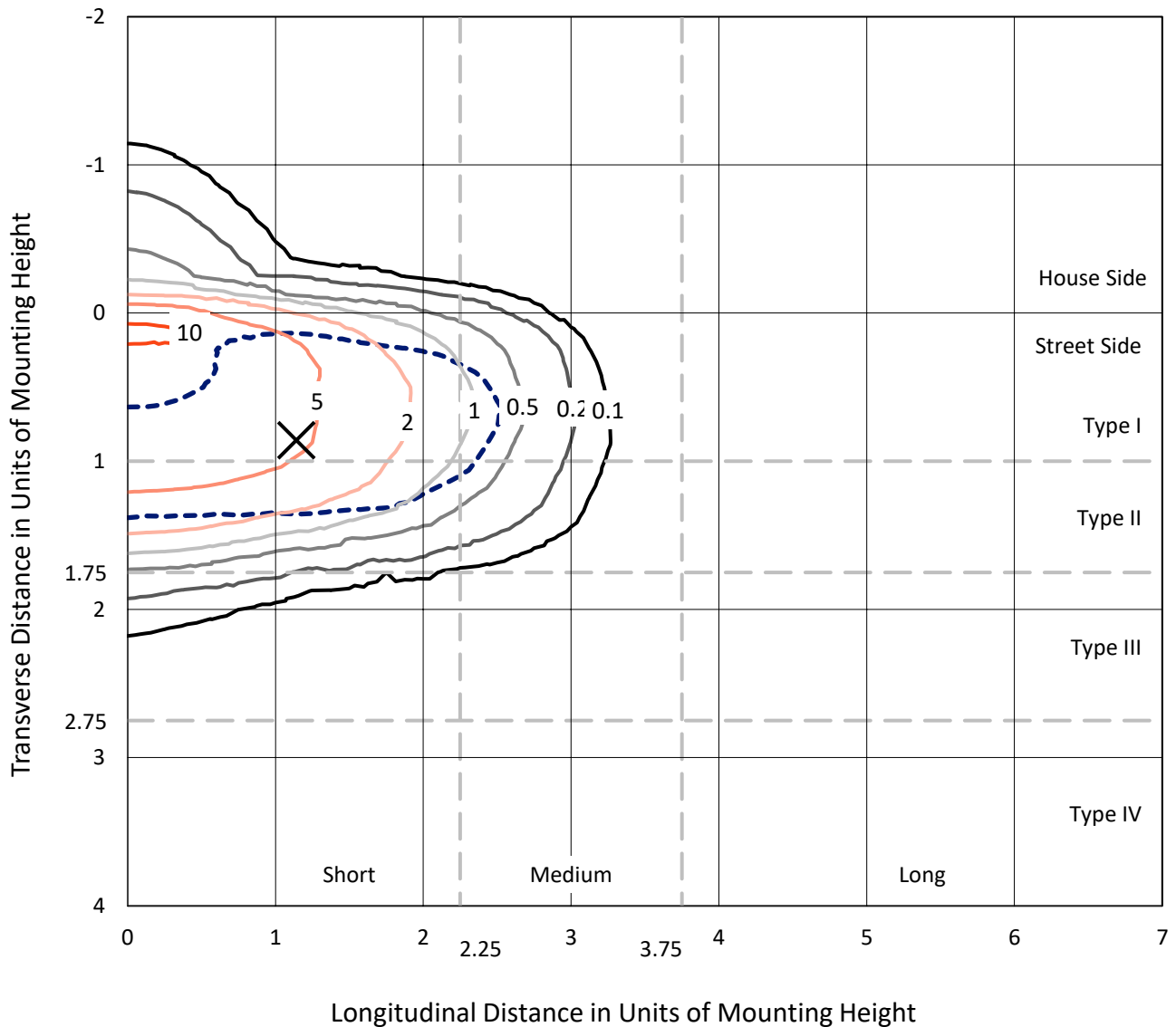
Lumens per Lamp: N/A  
Luminaire Lumens: 7620.8 lumens  
Efficiency: N/A  
Efficacy: 94.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

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

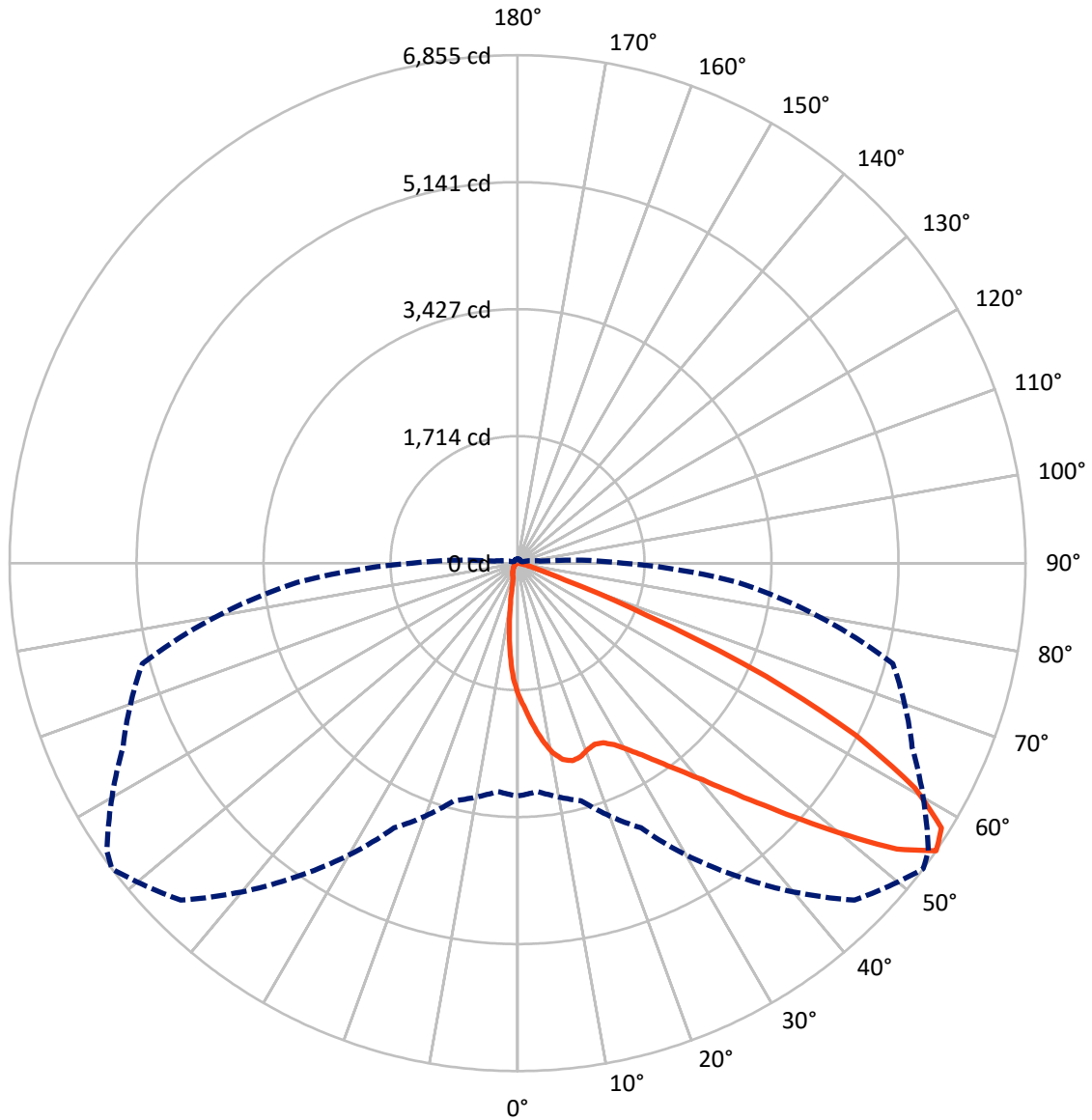
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 11.5 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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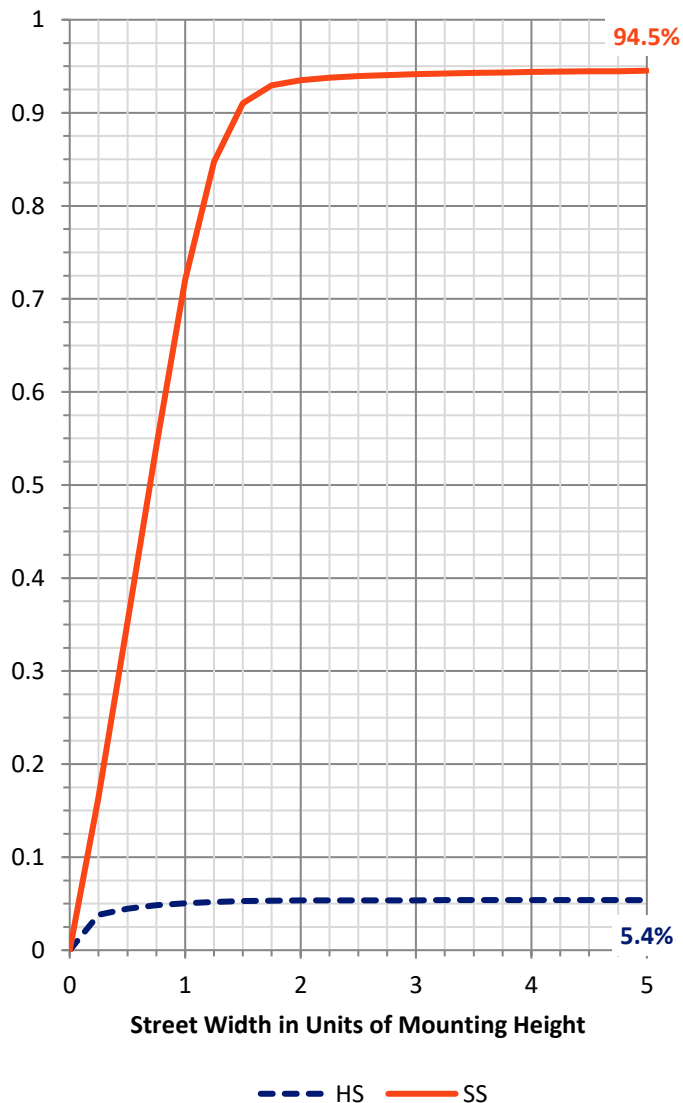
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	411.9	0.0	411.9
	% Fixture	5.4	0.0	5.4
<b>Street Side</b>	Lumens	7208.9	0.0	7208.9
	% Fixture	94.6	0.0	94.6
<b>Total</b>	Lumens	7620.8	0.0	7620.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.5	2.1
10°-20°	416.7	5.5
20°-30°	697.3	9.2
30°-40°	1140.9	15.0
40°-50°	1833.9	24.1
50°-60°	2070.5	27.2
60°-70°	1104.4	14.5
70°-80°	181.5	2.4
80°-90°	16.2	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°	7620.8	100.0
0°-180°	7620.8	100.0



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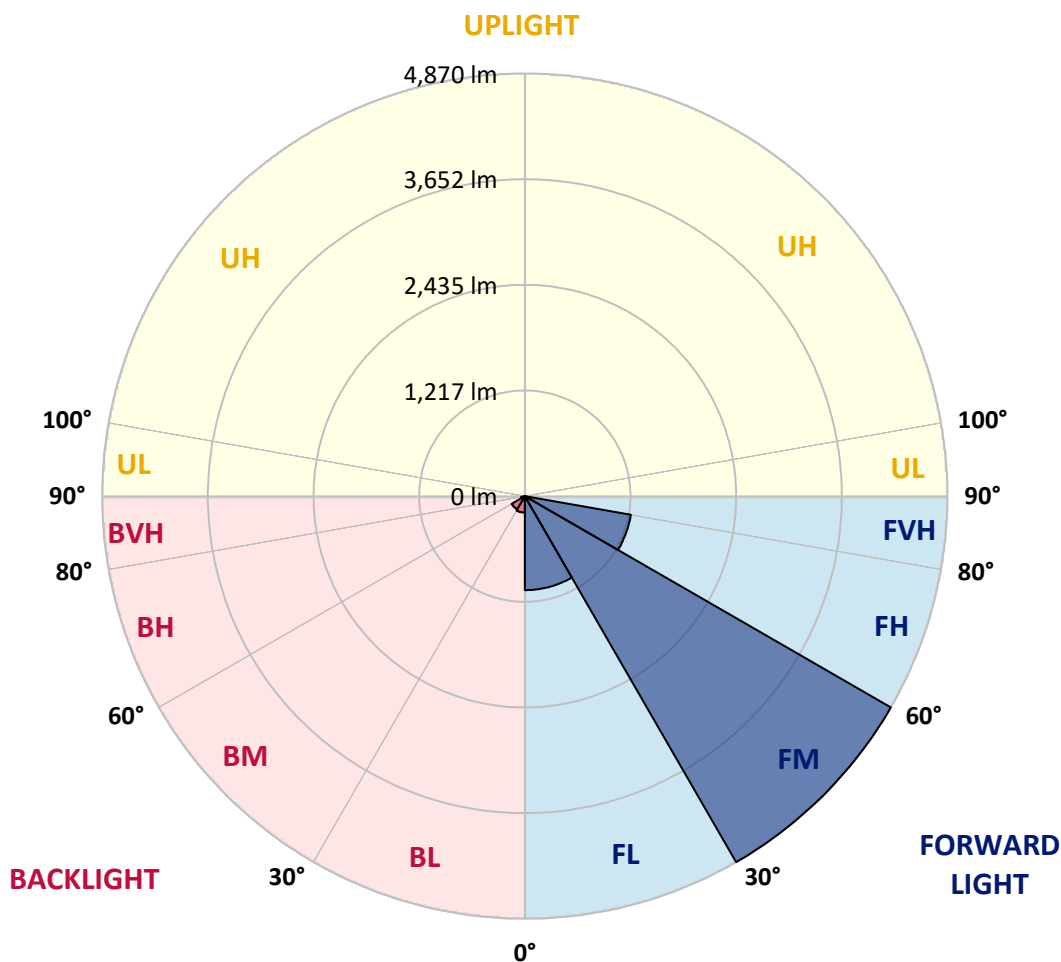
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1083.3	14.2			
FM (30°-60°)	4869.7	63.9			
FH (60°-80°)	1240.9	16.3			G1/1800
FVH (80°-90°)	14.9	0.2			G1/100
BL (0°-30°)	190.1	2.5	B1/500		
BM (30°-60°)	175.5	2.3	B0/220		
BH (60°-80°)	45.0	0.6	B0/110		G0/110
BVH (80°-90°)	1.3	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°	1783.4	1783.4	1783.4	1783.4	1783.4	1783.4	1783.4	1783.4	1783.4	1783.4	1783.4
2.5°	2138.7	2126.0	2133.3	2114.0	2078.6	2034.5	1968.4	1971.7	1919.7	1874.3	1811.5
5°	2491.9	2478.5	2474.5	2425.1	2375.7	2296.2	2198.1	2182.1	2086.6	1971.1	1839.5
7.5°	2678.2	2666.8	2675.5	2657.5	2608.7	2536.6	2412.4	2400.4	2252.8	2077.9	1884.3
10°	2592.7	2588.7	2625.4	2668.2	2707.5	2698.9	2599.4	2580.7	2415.1	2195.4	1930.3
12.5°	2363.0	2375.7	2422.4	2501.2	2622.7	2736.9	2720.9	2724.2	2580.7	2322.9	1981.1
15°	2228.1	2243.5	2270.2	2310.9	2460.5	2663.5	2767.0	2800.4	2739.6	2465.2	2041.2
17.5°	2216.8	2229.5	2233.5	2248.8	2336.3	2545.3	2748.3	2811.7	2881.2	2599.4	2108.6
20°	2304.3	2309.6	2306.3	2294.9	2326.3	2481.2	2689.5	2780.3	2998.0	2742.3	2168.0
22.5°	2469.2	2461.2	2451.1	2409.1	2407.1	2499.2	2657.5	2752.3	3067.4	2860.5	2207.4
25°	2673.5	2656.8	2642.8	2583.4	2555.3	2593.4	2686.2	2762.3	3130.2	2975.3	2235.5
27.5°	2896.5	2901.8	2867.1	2787.0	2742.9	2734.9	2775.0	2831.7	3191.0	3078.1	2250.8
30°	3134.9	3137.5	3092.1	3009.4	2969.3	2917.9	2915.2	2949.3	3256.4	3196.3	2265.5
32.5°	3406.6	3414.0	3339.9	3253.7	3183.6	3116.9	3084.1	3112.8	3373.9	3350.5	2295.6
35°	3799.2	3767.2	3667.0	3536.8	3437.3	3349.9	3299.8	3318.5	3530.2	3535.5	2355.7
37.5°	4203.9	4200.5	4089.7	3902.1	3739.2	3630.3	3544.9	3575.6	3749.8	3783.2	2451.8
40°	4581.1	4589.8	4493.7	4330.1	4120.4	3933.5	3842.0	3862.7	4041.6	4083.7	2568.7
42.5°	4827.5	4822.8	4830.2	4783.4	4573.1	4352.8	4215.2	4226.6	4380.8	4402.9	2714.9
45°	4941.0	4923.0	4985.8	5134.0	5050.5	4818.8	4661.9	4647.9	4732.7	4726.7	2847.8
47.5°	4842.9	4809.5	4953.7	5310.9	5472.5	5402.4	5178.1	5152.7	5080.6	5032.5	2986.0
50°	4354.8	4340.1	4648.6	5226.8	5737.6	5941.9	5777.0	5682.8	5391.1	5258.2	3058.8
52.5°	3890.7	3850.0	4058.3	4797.5	5619.4	6375.9	6410.0	6242.4	5648.8	5323.0	3034.1
55°	3142.9	3092.8	3319.8	3941.5	5151.4	6431.3	6854.7	6767.2	5874.5	5242.8	2984.0
57.5°	1909.0	1859.6	2193.4	2823.1	4119.7	5970.6	6745.2	6834.0	6048.1	5154.7	2951.3
60°	802.6	771.2	902.1	1347.4	2630.8	4907.0	6164.3	6385.9	6080.8	5033.8	2964.6
62.5°	417.3	403.3	410.6	539.5	1063.7	3231.0	5130.7	5516.6	5751.0	4980.4	2978.0
65°	313.2	302.5	279.1	296.5	413.3	1396.8	3687.1	4203.9	5035.8	4844.9	2887.8
67.5°	257.1	247.1	230.4	225.0	243.7	484.8	1882.3	2554.0	3946.1	4267.3	2564.7
70°	205.0	201.6	196.3	186.3	183.0	235.0	675.1	1041.0	2609.4	3009.4	1858.9
72.5°	170.9	171.6	165.6	156.9	144.9	151.6	269.1	355.9	1262.6	1442.9	778.5
75°	142.9	142.9	144.9	132.9	120.9	104.2	149.6	173.6	405.3	333.2	166.3
77.5°	112.2	113.5	122.2	112.2	96.8	65.4	81.5	92.8	120.2	96.1	60.8
80°	89.5	88.1	84.8	100.8	86.8	46.1	38.7	42.7	56.1	46.1	30.0
82.5°	62.8	62.1	59.4	68.1	67.4	34.1	25.4	26.0	34.1	29.4	18.7
85°	15.4	18.0	38.1	32.0	28.0	20.0	15.4	16.7	22.0	19.4	10.0
87.5°	6.7	6.7	17.4	20.7	13.4	8.7	6.7	7.3	11.4	11.4	6.0
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°	1783.4	1783.4	1783.4	1783.4	1783.4	1783.4	1783.4	1783.4	1783.4	1783.4	1783.4
2.5°	1789.5	1746.1	1691.3	1633.2	1573.8	1502.3	1456.9	1419.5	1390.2	1367.5	1359.4
5°	1796.1	1712.7	1588.5	1434.2	1277.3	1130.4	1016.9	932.8	863.3	825.3	808.6
7.5°	1795.5	1684.6	1460.3	1201.9	946.8	735.1	584.9	492.1	430.0	404.6	389.3
10°	1794.8	1647.9	1314.0	944.1	633.0	426.0	313.8	261.7	239.0	230.4	229.0
12.5°	1814.2	1605.8	1150.5	695.1	397.3	265.1	218.3	206.3	201.0	198.3	197.6
15°	1824.8	1567.1	978.2	490.8	267.8	209.7	195.0	189.6	187.6	186.3	185.6
17.5°	1836.2	1507.0	814.6	355.2	214.3	190.3	181.6	178.3	176.9	176.9	176.9
20°	1838.2	1442.2	652.3	261.7	190.3	177.6	168.9	165.6	163.6	162.3	162.3
22.5°	1823.5	1365.5	512.8	212.3	176.3	165.6	156.2	150.9	147.6	146.9	146.9
25°	1786.8	1256.6	393.3	186.3	164.9	153.6	142.2	136.2	133.5	133.5	133.5
27.5°	1734.0	1128.4	303.8	165.6	150.2	138.9	128.9	123.5	122.9	122.2	122.9
30°	1673.9	1004.9	232.4	146.9	132.9	123.5	115.5	112.8	114.2	114.2	114.8
32.5°	1613.8	881.4	181.6	132.2	117.5	109.5	105.5	105.5	107.5	107.5	107.5
35°	1562.4	760.5	152.2	120.2	106.8	100.2	98.2	100.2	101.5	102.2	102.2
37.5°	1533.7	656.4	134.2	109.5	98.2	92.8	92.1	94.1	96.8	98.8	99.5
40°	1523.0	576.2	123.5	101.5	90.1	86.8	86.1	88.8	93.5	96.8	97.5
42.5°	1523.7	505.5	114.2	93.5	84.8	80.1	80.1	84.1	88.8	92.1	92.1
45°	1528.4	444.7	104.8	85.5	80.1	72.1	72.8	78.1	81.5	84.8	84.8
47.5°	1532.4	395.9	94.8	76.8	69.4	65.4	66.8	70.8	75.5	80.8	80.8
50°	1509.0	361.2	84.8	67.4	60.8	59.4	62.1	65.4	72.1	77.5	78.1
52.5°	1452.9	329.8	76.1	60.1	54.8	55.4	58.8	60.8	66.1	66.8	67.4
55°	1428.2	313.8	69.4	54.8	50.1	52.1	54.1	54.8	53.4	50.1	50.1
57.5°	1422.9	303.1	62.8	49.4	46.1	48.7	48.1	44.1	40.1	36.1	35.4
60°	1428.2	288.4	57.4	42.7	42.1	42.7	40.7	33.4	28.0	25.4	24.0
62.5°	1397.5	267.1	52.7	36.7	36.7	36.1	30.7	22.7	18.0	16.0	15.4
65°	1296.0	225.0	48.1	30.7	30.0	28.7	20.7	15.4	12.0	10.0	9.3
67.5°	1096.4	174.3	43.4	25.4	24.0	20.0	13.4	10.0	6.7	6.0	5.3
70°	747.8	108.2	36.7	20.0	18.0	12.7	8.0	6.0	4.0	3.3	2.7
72.5°	271.1	62.8	30.7	15.4	12.0	8.0	4.7	2.7	2.0	2.0	1.3
75°	64.1	44.1	23.4	11.4	8.0	4.7	2.7	2.0	1.3	1.3	0.7
77.5°	29.4	34.1	15.4	6.7	5.3	3.3	2.0	1.3	0.7	0.7	0.0
80°	16.7	24.0	7.3	4.7	4.0	2.7	1.3	0.7	0.7	0.0	0.0
82.5°	8.7	13.4	5.3	4.0	3.3	2.0	1.3	0.0	0.0	0.0	0.0
85°	6.0	6.7	4.0	3.3	2.7	2.0	1.3	0.0	0.0	0.0	0.0
87.5°	4.7	4.7	4.0	3.3	2.7	2.0	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)