

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: P674467

Luminaire Tested: **CCP-SA-2D-830-U-AFL-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674467  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2D-830-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, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

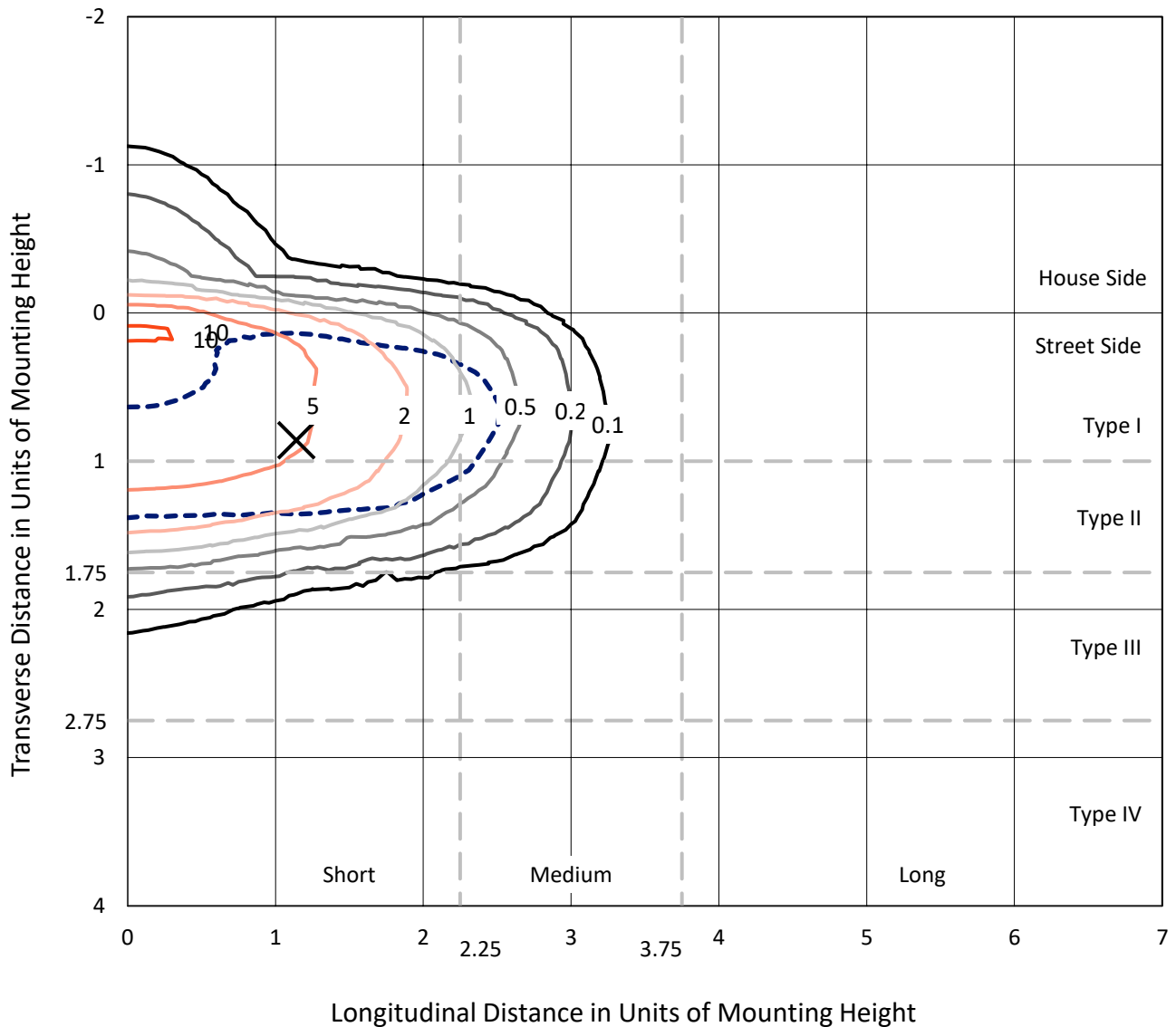
Lumens per Lamp: N/A  
Luminaire Lumens: 7348.9 lumens  
Efficiency: N/A  
Efficacy: 91.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

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

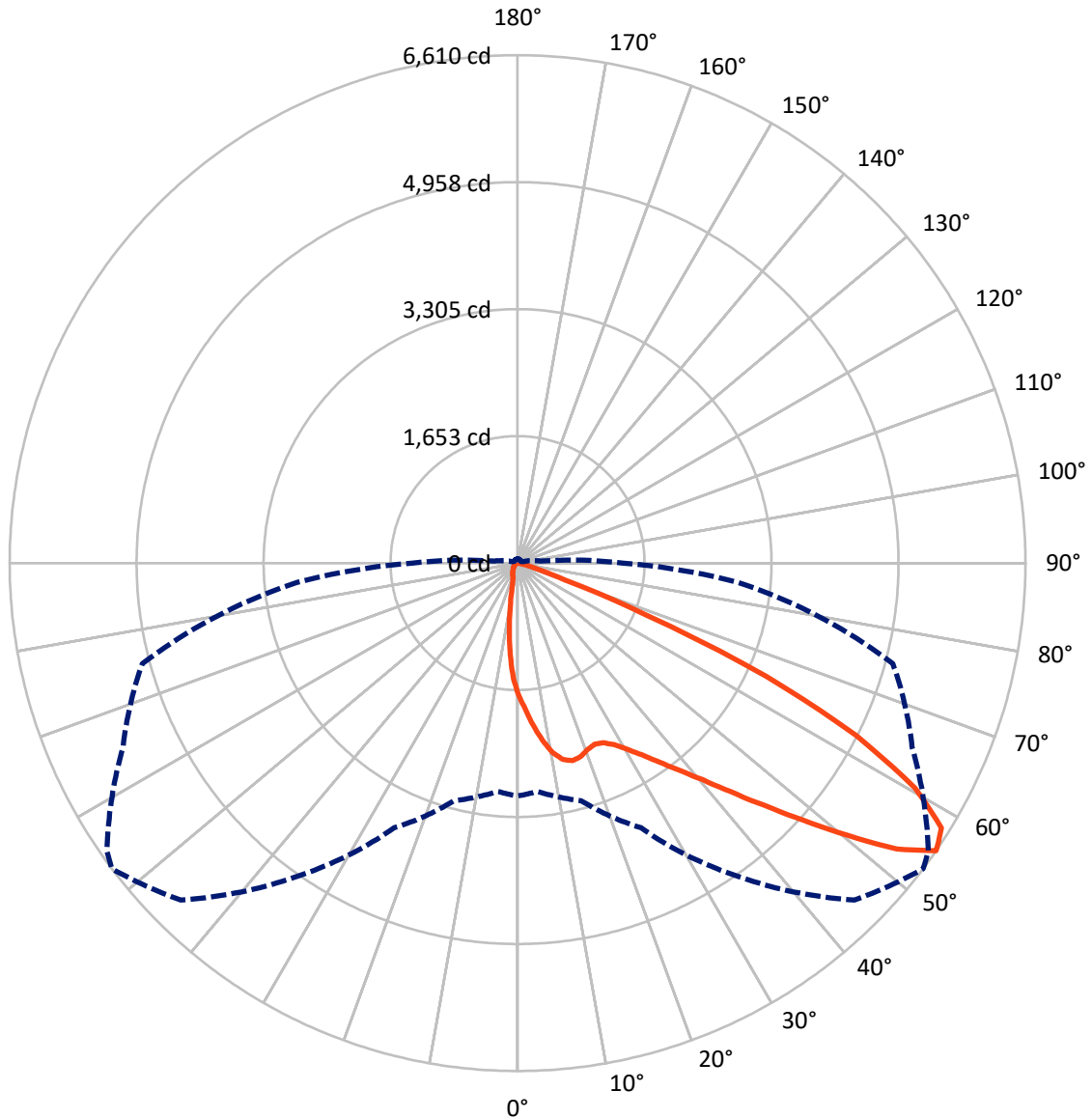
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 11.1 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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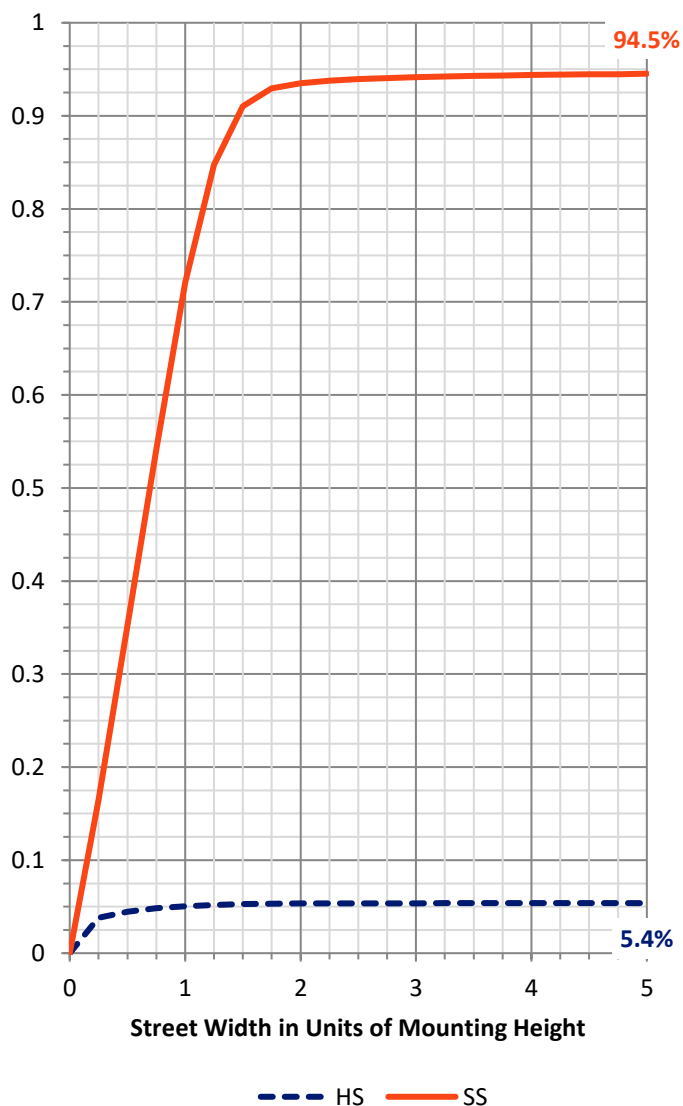
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	397.2	0.0	397.2
	% Fixture	5.4	0.0	5.4
<b>Street Side</b>	Lumens	6951.6	0.0	6951.6
	% Fixture	94.6	0.0	94.6
<b>Total</b>	Lumens	7348.9	0.0	7348.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.8	2.1
10°-20°	401.8	5.5
20°-30°	672.4	9.2
30°-40°	1100.2	15.0
40°-50°	1768.4	24.1
50°-60°	1996.6	27.2
60°-70°	1065.0	14.5
70°-80°	175.0	2.4
80°-90°	15.7	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°	7348.9	100.0
0°-180°	7348.9	100.0



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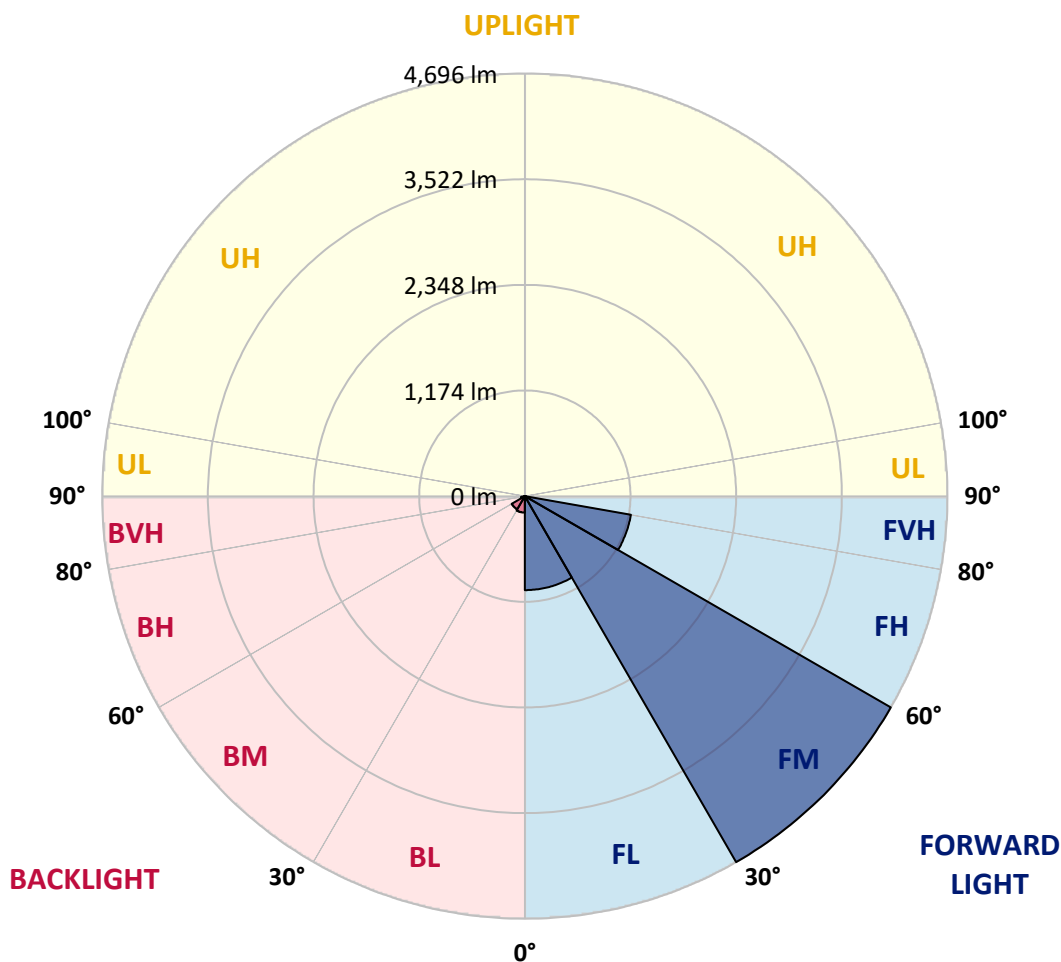
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1044.7	14.2			
FM (30°-60°)	4696.0	63.9			
FH (60°-80°)	1196.6	16.3			G1/1800
FVH (80°-90°)	14.4	0.2			G1/100
BL (0°-30°)	183.3	2.5	B1/500		
BM (30°-60°)	169.2	2.3	B0/220		
BH (60°-80°)	43.4	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°	1719.8	1719.8	1719.8	1719.8	1719.8	1719.8	1719.8	1719.8	1719.8	1719.8	1719.8
2.5°	2062.4	2050.1	2057.2	2038.5	2004.4	1961.9	1898.2	1901.4	1851.2	1807.4	1746.9
5°	2403.0	2390.1	2386.2	2338.6	2290.9	2214.3	2119.7	2104.2	2012.1	1900.7	1773.9
7.5°	2582.6	2571.7	2580.0	2562.7	2515.6	2446.1	2326.3	2314.8	2172.5	2003.8	1817.0
10°	2500.2	2496.3	2531.7	2573.0	2610.9	2602.6	2506.6	2488.6	2328.9	2117.1	1861.5
12.5°	2278.7	2290.9	2336.0	2412.0	2529.2	2639.3	2623.8	2627.0	2488.6	2240.1	1910.4
15°	2148.6	2163.4	2189.2	2228.5	2372.7	2568.4	2668.2	2700.4	2641.8	2377.2	1968.3
17.5°	2137.7	2149.9	2153.8	2168.6	2252.9	2454.5	2650.2	2711.4	2778.4	2506.6	2033.4
20°	2222.0	2227.2	2224.0	2213.0	2243.3	2392.7	2593.6	2681.1	2891.0	2644.4	2090.7
22.5°	2381.1	2373.4	2363.7	2323.1	2321.2	2410.1	2562.7	2654.1	2958.0	2758.4	2128.7
25°	2578.1	2562.0	2548.5	2491.2	2464.1	2500.8	2590.3	2663.7	3018.5	2869.1	2155.7
27.5°	2793.2	2798.3	2764.8	2687.6	2645.1	2637.3	2676.0	2730.7	3077.1	2968.3	2170.5
30°	3023.0	3025.6	2981.8	2902.0	2863.3	2813.8	2811.2	2844.0	3140.2	3082.3	2184.7
32.5°	3285.1	3292.2	3220.7	3137.6	3070.0	3005.6	2974.1	3001.8	3253.5	3231.0	2213.7
35°	3663.7	3632.8	3536.2	3410.6	3314.7	3230.4	3182.1	3200.1	3404.2	3409.4	2271.6
37.5°	4053.9	4050.7	3943.8	3762.8	3605.7	3500.8	3418.4	3448.0	3616.0	3648.2	2364.3
40°	4417.7	4426.0	4333.3	4175.6	3973.4	3793.1	3704.9	3724.9	3897.4	3938.0	2477.0
42.5°	4655.3	4650.8	4657.8	4612.8	4410.0	4197.5	4064.8	4075.8	4224.5	4245.8	2618.0
45°	4764.7	4747.3	4807.9	4950.8	4870.3	4646.9	4495.6	4482.1	4563.8	4558.0	2746.2
47.5°	4670.1	4637.9	4777.0	5121.4	5277.3	5209.7	4993.3	4968.8	4899.3	4852.9	2879.4
50°	4199.4	4185.2	4482.7	5040.3	5532.9	5729.9	5570.9	5480.1	5198.7	5070.6	2949.6
52.5°	3751.9	3712.6	3913.5	4626.3	5418.9	6148.4	6181.3	6019.7	5447.2	5133.0	2925.8
55°	3030.8	2982.5	3201.4	3800.8	4967.6	6201.9	6610.1	6525.7	5664.9	5055.8	2877.5
57.5°	1840.9	1793.2	2115.2	2722.3	3972.8	5757.6	6504.5	6590.1	5832.3	4970.8	2846.0
60°	773.9	743.7	869.9	1299.4	2536.9	4731.9	5944.3	6158.1	5863.8	4854.2	2858.8
62.5°	402.4	388.9	396.0	520.3	1025.7	3115.7	4947.6	5319.8	5545.8	4802.7	2871.7
65°	302.0	291.7	269.1	285.9	398.6	1347.0	3555.5	4053.9	4856.2	4672.0	2784.8
67.5°	247.9	238.2	222.1	217.0	235.0	467.5	1815.1	2462.9	3805.3	4115.1	2473.2
70°	197.7	194.5	189.3	179.6	176.4	226.6	651.0	1003.8	2516.3	2902.0	1792.6
72.5°	164.8	165.5	159.7	151.3	139.7	146.2	259.5	343.2	1217.6	1391.4	750.8
75°	137.8	137.8	139.7	128.1	116.5	100.4	144.2	167.4	390.8	321.3	160.3
77.5°	108.2	109.5	117.8	108.2	93.4	63.1	78.6	89.5	115.9	92.7	58.6
80°	86.3	85.0	81.8	97.2	83.7	44.4	37.3	41.2	54.1	44.4	29.0
82.5°	60.5	59.9	57.3	65.7	65.0	32.8	24.5	25.1	32.8	28.3	18.0
85°	14.8	17.4	36.7	30.9	27.0	19.3	14.8	16.1	21.2	18.7	9.7
87.5°	6.4	6.4	16.7	20.0	12.9	8.4	6.4	7.1	10.9	10.9	5.8
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°	1719.8	1719.8	1719.8	1719.8	1719.8	1719.8	1719.8	1719.8	1719.8	1719.8	1719.8
2.5°	1725.6	1683.8	1631.0	1574.9	1517.6	1448.7	1405.0	1368.9	1340.6	1318.7	1310.9
5°	1732.0	1651.6	1531.8	1383.1	1231.7	1090.1	980.6	899.5	832.5	795.8	779.7
7.5°	1731.4	1624.5	1408.2	1159.0	913.0	708.9	564.0	474.5	414.7	390.2	375.4
10°	1730.8	1589.1	1267.2	910.4	610.4	410.8	302.6	252.4	230.5	222.1	220.9
12.5°	1749.4	1548.5	1109.4	670.3	383.1	255.6	210.5	199.0	193.8	191.2	190.6
15°	1759.7	1511.2	943.3	473.3	258.2	202.2	188.0	182.9	180.9	179.6	179.0
17.5°	1770.7	1453.2	785.5	342.5	206.7	183.5	175.1	171.9	170.6	170.6	170.6
20°	1772.6	1390.8	629.1	252.4	183.5	171.3	162.9	159.7	157.8	156.5	156.5
22.5°	1758.4	1316.7	494.5	204.8	170.0	159.7	150.7	145.5	142.3	141.7	141.7
25°	1723.0	1211.8	379.2	179.6	159.0	148.1	137.1	131.4	128.8	128.8	128.8
27.5°	1672.2	1088.2	293.0	159.7	144.9	133.9	124.3	119.1	118.5	117.8	118.5
30°	1614.2	969.0	224.1	141.7	128.1	119.1	111.4	108.8	110.1	110.1	110.7
32.5°	1556.3	849.9	175.1	127.5	113.3	105.6	101.7	101.7	103.7	103.7	103.7
35°	1506.7	733.4	146.8	115.9	103.0	96.6	94.7	96.6	97.9	98.5	98.5
37.5°	1479.0	632.9	129.4	105.6	94.7	89.5	88.9	90.8	93.4	95.3	95.9
40°	1468.7	555.7	119.1	97.9	86.9	83.7	83.1	85.6	90.1	93.4	94.0
42.5°	1469.3	487.4	110.1	90.1	81.8	77.3	77.3	81.1	85.6	88.9	88.9
45°	1473.8	428.8	101.1	82.4	77.3	69.5	70.2	75.3	78.6	81.8	81.8
47.5°	1477.7	381.8	91.4	74.0	67.0	63.1	64.4	68.3	72.8	77.9	77.9
50°	1455.2	348.3	81.8	65.0	58.6	57.3	59.9	63.1	69.5	74.7	75.3
52.5°	1401.1	318.1	73.4	57.9	52.8	53.4	56.7	58.6	63.7	64.4	65.0
55°	1377.3	302.6	67.0	52.8	48.3	50.2	52.2	52.8	51.5	48.3	48.3
57.5°	1372.1	292.3	60.5	47.6	44.4	47.0	46.4	42.5	38.6	34.8	34.1
60°	1377.3	278.2	55.4	41.2	40.6	41.2	39.3	32.2	27.0	24.5	23.2
62.5°	1347.6	257.6	50.9	35.4	35.4	34.8	29.6	21.9	17.4	15.5	14.8
65°	1249.8	217.0	46.4	29.6	29.0	27.7	20.0	14.8	11.6	9.7	9.0
67.5°	1057.3	168.1	41.9	24.5	23.2	19.3	12.9	9.7	6.4	5.8	5.2
70°	721.1	104.3	35.4	19.3	17.4	12.2	7.7	5.8	3.9	3.2	2.6
72.5°	261.4	60.5	29.6	14.8	11.6	7.7	4.5	2.6	1.9	1.9	1.3
75°	61.8	42.5	22.5	10.9	7.7	4.5	2.6	1.9	1.3	1.3	0.6
77.5°	28.3	32.8	14.8	6.4	5.2	3.2	1.9	1.3	0.6	0.6	0.0
80°	16.1	23.2	7.1	4.5	3.9	2.6	1.3	0.6	0.6	0.0	0.0
82.5°	8.4	12.9	5.2	3.9	3.2	1.9	1.3	0.0	0.0	0.0	0.0
85°	5.8	6.4	3.9	3.2	2.6	1.9	1.3	0.0	0.0	0.0	0.0
87.5°	4.5	4.5	3.9	3.2	2.6	1.9	0.6	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)