

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: P674456

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

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674456  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2D-827-U-AFL-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ AFL distribution lens and House Side Shield  
Light Source: (32) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

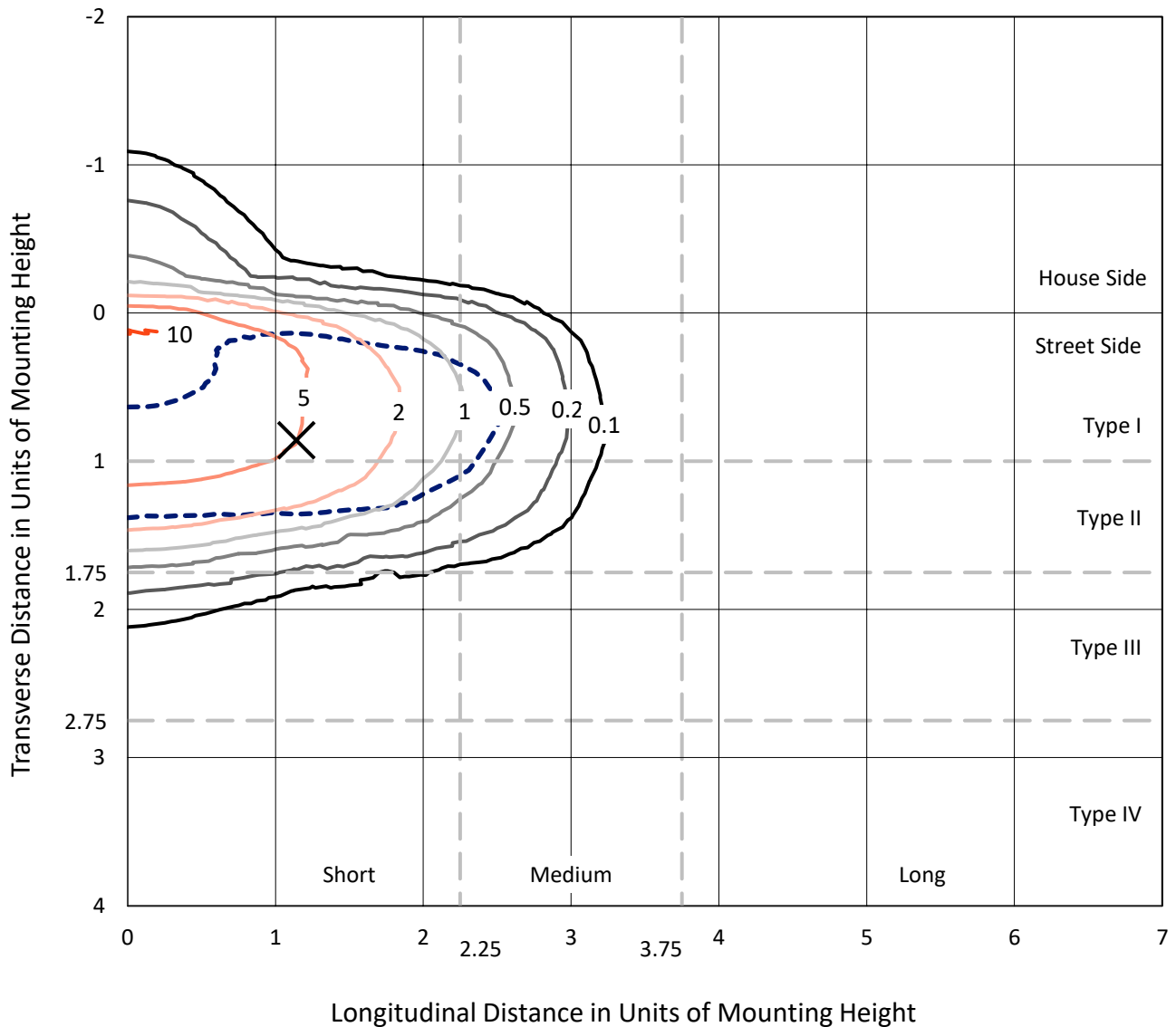
Lumens per Lamp: N/A  
Luminaire Lumens: 6798.6 lumens  
Efficiency: N/A  
Efficacy: 84.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

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

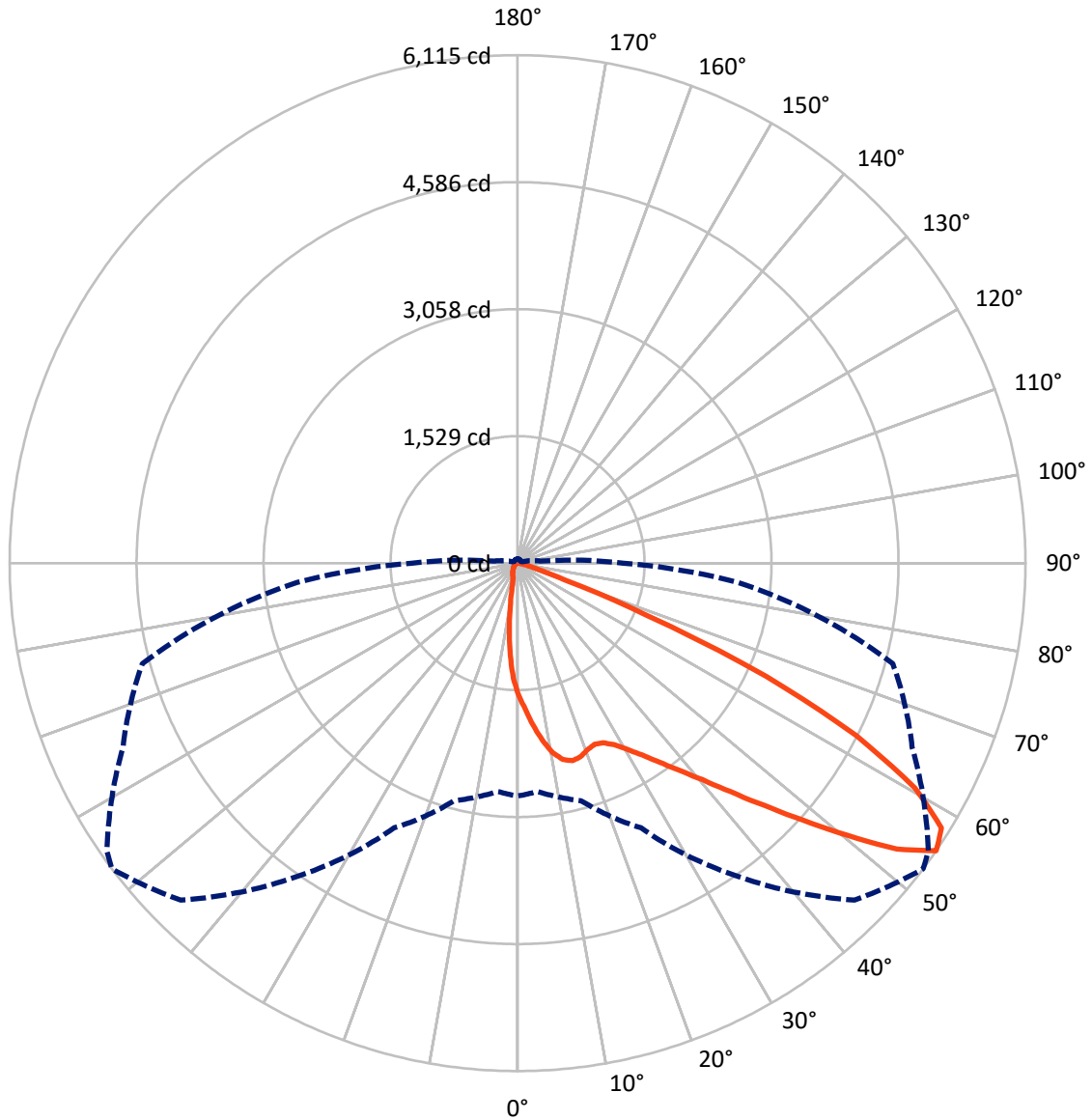
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 10.3 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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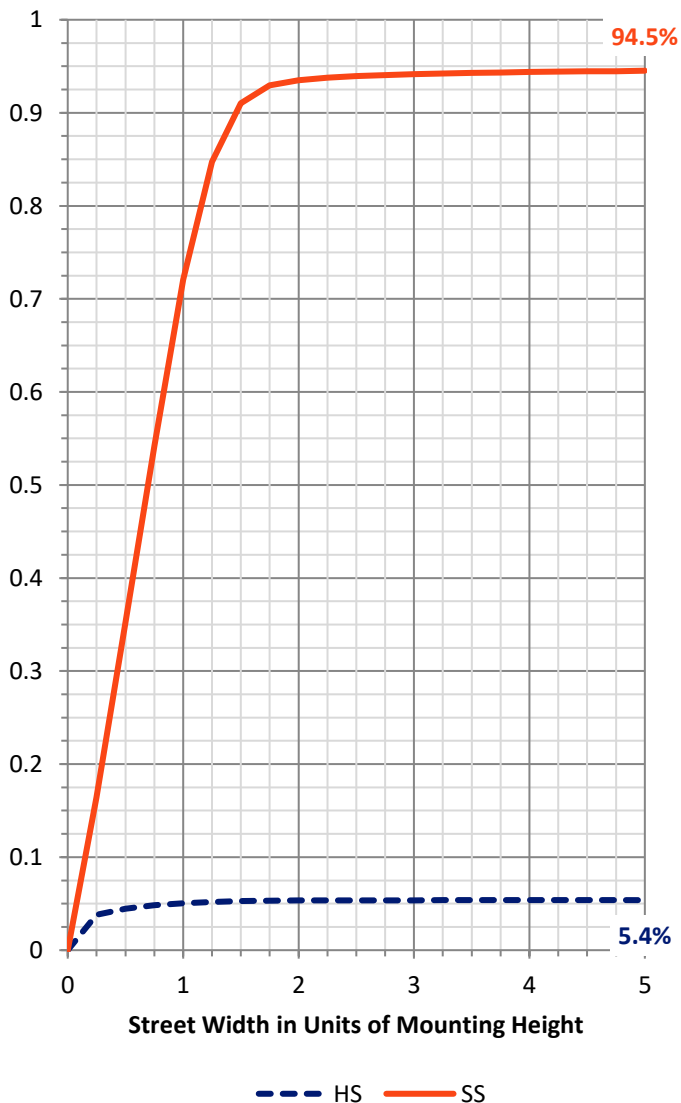
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	367.5	0.0	367.5
	% Fixture	5.4	0.0	5.4
<b>Street Side</b>	Lumens	6431.1	0.0	6431.1
	% Fixture	94.6	0.0	94.6
<b>Total</b>	Lumens	6798.6	0.0	6798.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.2	2.1
10°-20°	371.7	5.5
20°-30°	622.1	9.2
30°-40°	1017.8	15.0
40°-50°	1636.0	24.1
50°-60°	1847.1	27.2
60°-70°	985.3	14.5
70°-80°	161.9	2.4
80°-90°	14.5	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°	6798.6	100.0
0°-180°	6798.6	100.0



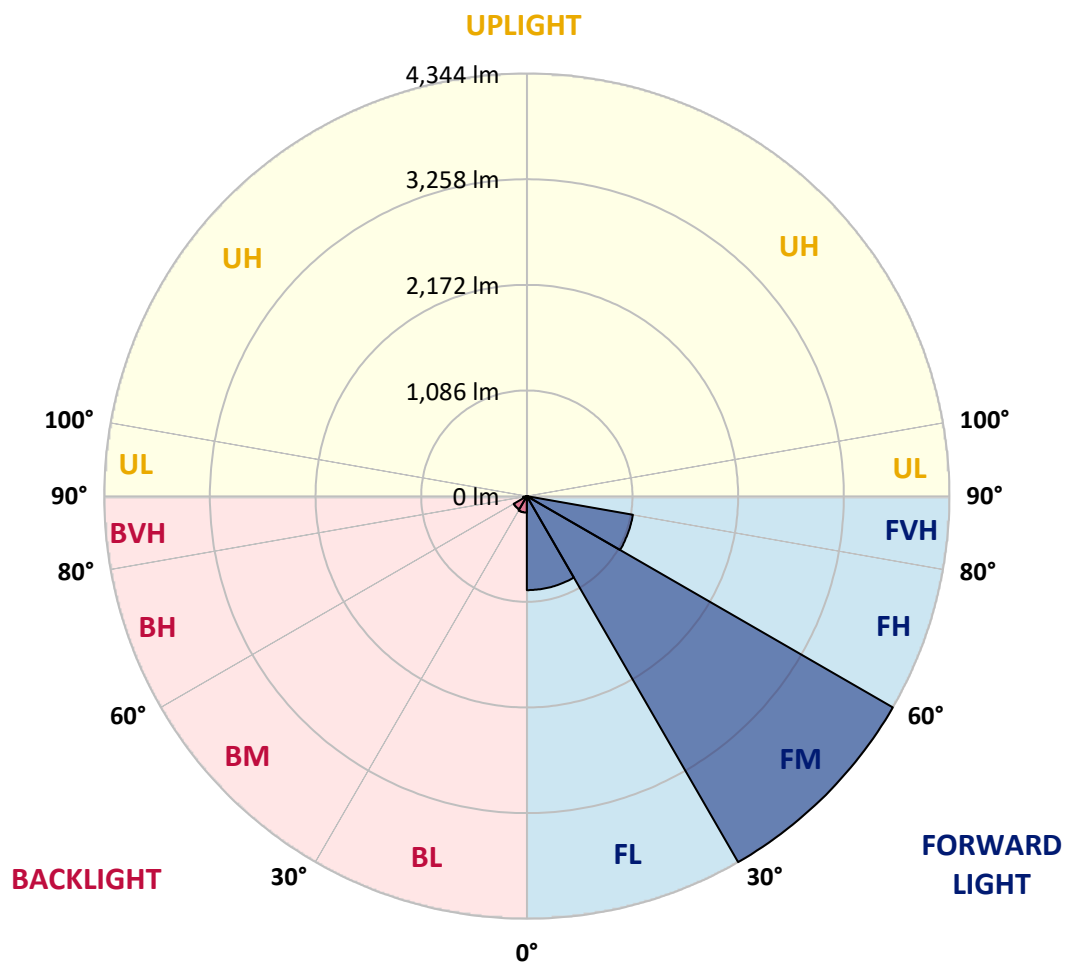
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	966.5	14.2			
FM (30°-60°)	4344.4	63.9			
FH (60°-80°)	1107.0	16.3			G1/1800
FVH (80°-90°)	13.3	0.2			G1/100
BL (0°-30°)	169.6	2.5	B1/500		
BM (30°-60°)	156.6	2.3	B0/220		
BH (60°-80°)	40.2	0.6	B0/110		G0/110
BVH (80°-90°)	1.2	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°	1591.0	1591.0	1591.0	1591.0	1591.0	1591.0	1591.0	1591.0	1591.0	1591.0	1591.0
2.5°	1907.9	1896.6	1903.2	1885.9	1854.3	1815.0	1756.0	1759.0	1712.5	1672.0	1616.0
5°	2223.0	2211.1	2207.5	2163.5	2119.4	2048.5	1960.9	1946.6	1861.5	1758.4	1641.1
7.5°	2389.2	2379.1	2386.8	2370.8	2327.3	2262.9	2152.1	2141.4	2009.8	1853.7	1681.0
10°	2313.0	2309.4	2342.2	2380.3	2415.4	2407.7	2318.9	2302.3	2154.5	1958.6	1722.1
12.5°	2108.1	2119.4	2161.1	2231.4	2339.8	2441.6	2427.3	2430.3	2302.3	2072.3	1767.3
15°	1987.7	2001.4	2025.3	2061.6	2195.0	2376.1	2468.4	2498.2	2444.0	2199.2	1821.0
17.5°	1977.6	1988.9	1992.5	2006.2	2084.2	2270.7	2451.8	2508.4	2570.3	2318.9	1881.1
20°	2055.7	2060.4	2057.4	2047.3	2075.3	2213.5	2399.4	2480.4	2674.6	2446.4	1934.1
22.5°	2202.8	2195.6	2186.7	2149.2	2147.4	2229.6	2370.8	2455.3	2736.5	2551.8	1969.3
25°	2385.1	2370.2	2357.7	2304.6	2279.6	2313.6	2396.4	2464.3	2792.5	2654.3	1994.3
27.5°	2584.0	2588.8	2557.8	2486.3	2447.0	2439.9	2475.6	2526.2	2846.7	2746.0	2008.0
30°	2796.7	2799.0	2758.5	2684.7	2648.9	2603.1	2600.7	2631.1	2905.1	2851.5	2021.1
32.5°	3039.1	3045.7	2979.5	2902.7	2840.1	2780.6	2751.4	2777.0	3009.9	2989.1	2047.9
35°	3389.4	3360.8	3271.4	3155.3	3066.5	2988.5	2943.8	2960.5	3149.3	3154.1	2101.5
37.5°	3750.3	3747.3	3648.5	3481.1	3335.7	3238.6	3162.4	3189.8	3345.3	3375.1	2187.3
40°	4086.9	4094.6	4008.8	3862.9	3675.9	3509.1	3427.5	3445.9	3605.6	3643.1	2291.5
42.5°	4306.7	4302.5	4309.1	4267.4	4079.7	3883.2	3760.5	3770.6	3908.2	3927.8	2422.0
45°	4407.9	4391.9	4447.9	4580.1	4505.6	4298.9	4159.0	4146.4	4222.1	4216.7	2540.5
47.5°	4320.4	4290.6	4419.3	4737.9	4882.1	4819.6	4619.4	4596.8	4532.4	4489.6	2663.8
50°	3884.9	3871.8	4147.0	4662.9	5118.6	5300.9	5153.7	5069.7	4809.4	4690.9	2728.8
52.5°	3471.0	3434.6	3620.5	4279.9	5013.1	5688.0	5718.4	5568.9	5039.4	4748.7	2706.7
55°	2803.8	2759.1	2961.7	3516.2	4595.6	5737.5	6115.1	6037.1	5240.7	4677.2	2662.0
57.5°	1703.0	1658.9	1956.8	2518.5	3675.3	5326.5	6017.4	6096.7	5395.6	4598.6	2632.9
60°	716.0	688.0	804.7	1202.1	2346.9	4377.6	5499.2	5697.0	5424.8	4490.7	2644.8
62.5°	372.3	359.8	366.3	481.3	948.9	2882.4	4577.1	4921.4	5130.5	4443.1	2656.7
65°	279.4	269.8	249.0	264.5	368.7	1246.1	3289.3	3750.3	4492.5	4322.2	2576.3
67.5°	229.3	220.4	205.5	200.7	217.4	432.5	1679.2	2278.4	3520.4	3806.9	2288.0
70°	182.9	179.9	175.1	166.2	163.2	209.7	602.2	928.6	2327.9	2684.7	1658.3
72.5°	152.5	153.1	147.7	140.0	129.3	135.2	240.1	317.5	1126.4	1287.2	694.5
75°	127.5	127.5	129.3	118.5	107.8	92.9	133.4	154.9	361.6	297.2	148.3
77.5°	100.1	101.3	109.0	100.1	86.4	58.4	72.7	82.8	107.2	85.8	54.2
80°	79.8	78.6	75.6	89.9	77.4	41.1	34.5	38.1	50.0	41.1	26.8
82.5°	56.0	55.4	53.0	60.8	60.2	30.4	22.6	23.2	30.4	26.2	16.7
85°	13.7	16.1	34.0	28.6	25.0	17.9	13.7	14.9	19.7	17.3	8.9
87.5°	6.0	6.0	15.5	18.5	11.9	7.7	6.0	6.6	10.1	10.1	5.4
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°	1591.0	1591.0	1591.0	1591.0	1591.0	1591.0	1591.0	1591.0	1591.0	1591.0	1591.0
2.5°	1596.4	1557.7	1508.8	1457.0	1404.0	1340.3	1299.7	1266.4	1240.2	1219.9	1212.8
5°	1602.3	1527.9	1417.1	1279.5	1139.5	1008.5	907.2	832.1	770.2	736.2	721.4
7.5°	1601.8	1502.9	1302.7	1072.2	844.7	655.8	521.8	439.0	383.6	361.0	347.3
10°	1601.2	1470.1	1172.3	842.3	564.7	380.0	280.0	233.5	213.2	205.5	204.3
12.5°	1618.4	1432.6	1026.3	620.1	354.4	236.5	194.8	184.1	179.3	176.9	176.3
15°	1628.0	1398.0	872.7	437.8	238.9	187.0	173.9	169.2	167.4	166.2	165.6
17.5°	1638.1	1344.4	726.7	316.9	191.2	169.8	162.0	159.0	157.9	157.9	157.9
20°	1639.9	1286.6	582.0	233.5	169.8	158.4	150.7	147.7	145.9	144.7	144.7
22.5°	1626.8	1218.1	457.5	189.4	157.3	147.7	139.4	134.6	131.6	131.0	131.0
25°	1594.0	1121.0	350.8	166.2	147.1	137.0	126.9	121.5	119.1	119.1	119.1
27.5°	1547.0	1006.7	271.0	147.7	134.0	123.9	115.0	110.2	109.6	109.0	109.6
30°	1493.3	896.5	207.3	131.0	118.5	110.2	103.1	100.7	101.9	101.9	102.5
32.5°	1439.7	786.3	162.0	117.9	104.8	97.7	94.1	94.1	95.9	95.9	95.9
35°	1393.9	678.5	135.8	107.2	95.3	89.4	87.6	89.4	90.5	91.1	91.1
37.5°	1368.2	585.5	119.7	97.7	87.6	82.8	82.2	84.0	86.4	88.2	88.8
40°	1358.7	514.1	110.2	90.5	80.4	77.4	76.8	79.2	83.4	86.4	87.0
42.5°	1359.3	450.9	101.9	83.4	75.6	71.5	71.5	75.1	79.2	82.2	82.2
45°	1363.5	396.7	93.5	76.2	71.5	64.3	64.9	69.7	72.7	75.6	75.6
47.5°	1367.1	353.2	84.6	68.5	61.9	58.4	59.6	63.1	67.3	72.1	72.1
50°	1346.2	322.3	75.6	60.2	54.2	53.0	55.4	58.4	64.3	69.1	69.7
52.5°	1296.2	294.3	67.9	53.6	48.8	49.4	52.4	54.2	59.0	59.6	60.2
55°	1274.1	280.0	61.9	48.8	44.7	46.5	48.2	48.8	47.7	44.7	44.7
57.5°	1269.4	270.4	56.0	44.1	41.1	43.5	42.9	39.3	35.7	32.2	31.6
60°	1274.1	257.3	51.2	38.1	37.5	38.1	36.3	29.8	25.0	22.6	21.4
62.5°	1246.7	238.3	47.1	32.8	32.8	32.2	27.4	20.3	16.1	14.3	13.7
65°	1156.2	200.7	42.9	27.4	26.8	25.6	18.5	13.7	10.7	8.9	8.3
67.5°	978.1	155.5	38.7	22.6	21.4	17.9	11.9	8.9	6.0	5.4	4.8
70°	667.1	96.5	32.8	17.9	16.1	11.3	7.1	5.4	3.6	3.0	2.4
72.5°	241.8	56.0	27.4	13.7	10.7	7.1	4.2	2.4	1.8	1.8	1.2
75°	57.2	39.3	20.8	10.1	7.1	4.2	2.4	1.8	1.2	1.2	0.6
77.5°	26.2	30.4	13.7	6.0	4.8	3.0	1.8	1.2	0.6	0.6	0.0
80°	14.9	21.4	6.6	4.2	3.6	2.4	1.2	0.6	0.6	0.0	0.0
82.5°	7.7	11.9	4.8	3.6	3.0	1.8	1.2	0.0	0.0	0.0	0.0
85°	5.4	6.0	3.6	3.0	2.4	1.8	1.2	0.0	0.0	0.0	0.0
87.5°	4.2	4.2	3.6	3.0	2.4	1.8	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)