

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: P674379

Luminaire Tested: **CCP-SA-2D-722-U-AFL-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674379  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2D-722-U-AFL-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ AFL distribution lens and House Side Shield  
Light Source: (32) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

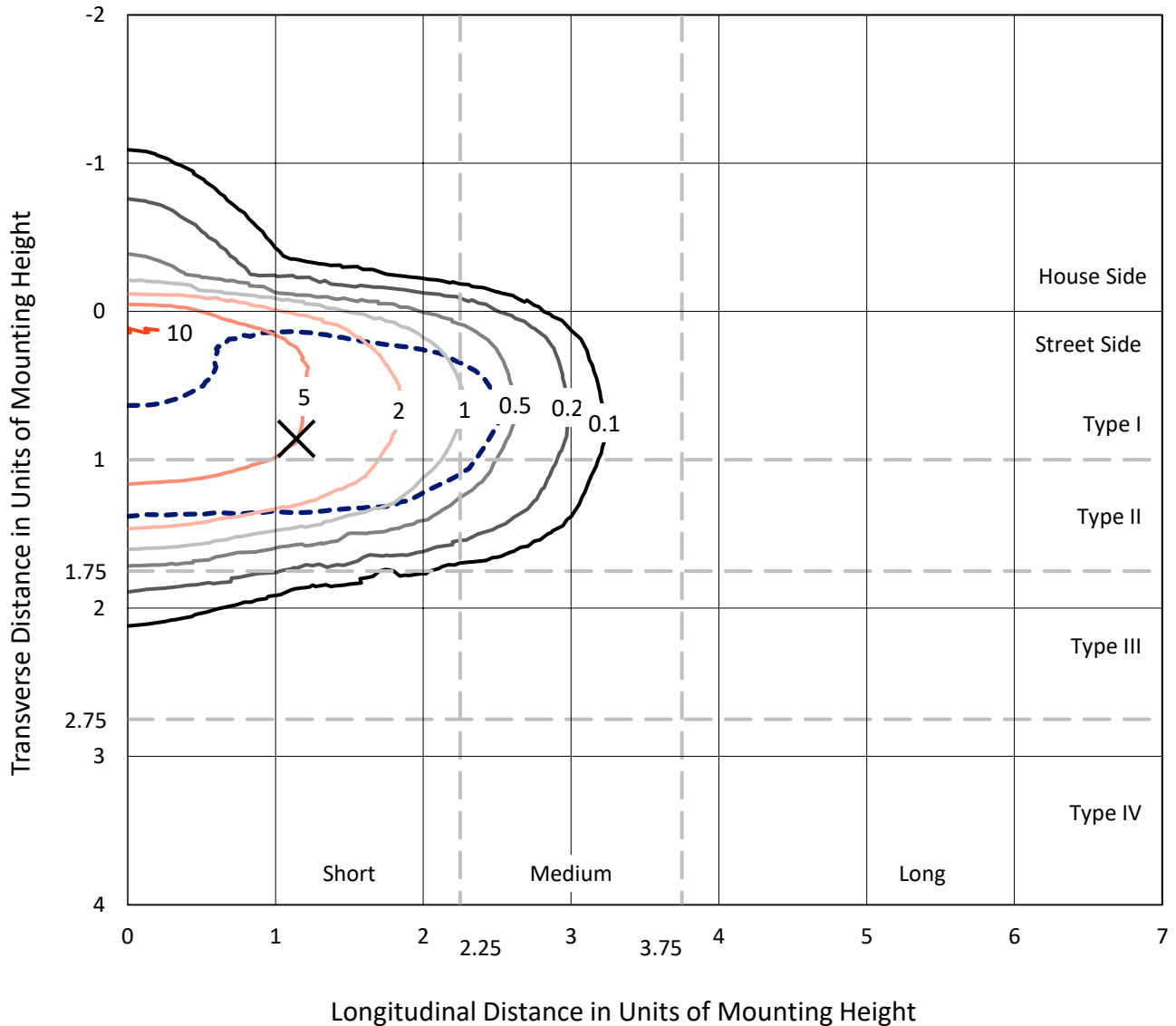
Lumens per Lamp: N/A  
Luminaire Lumens: 6812.5 lumens  
Efficiency: N/A  
Efficacy: 84.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 80.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

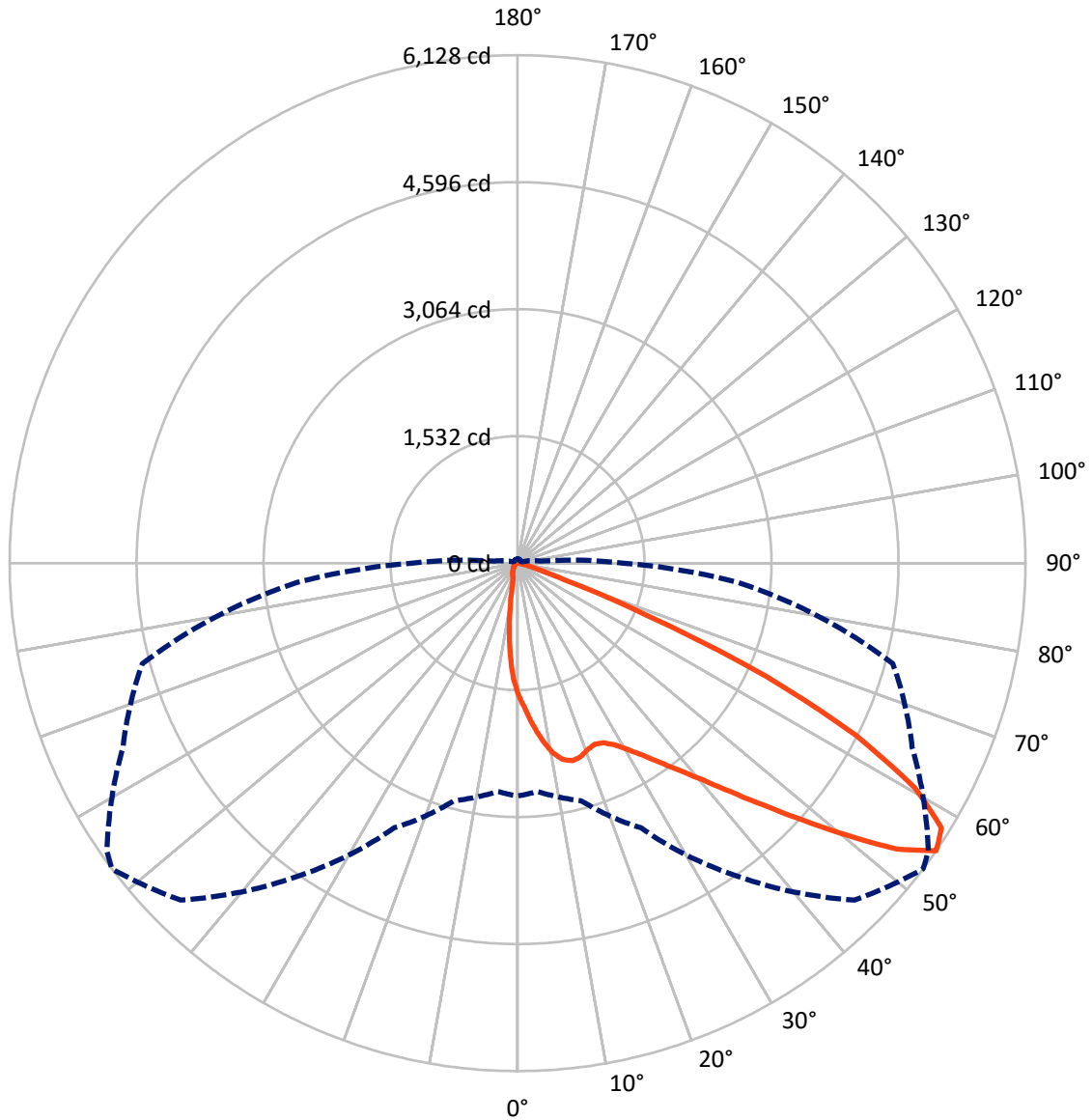
✕ Max cd  
 - - - 1/2 Max cd



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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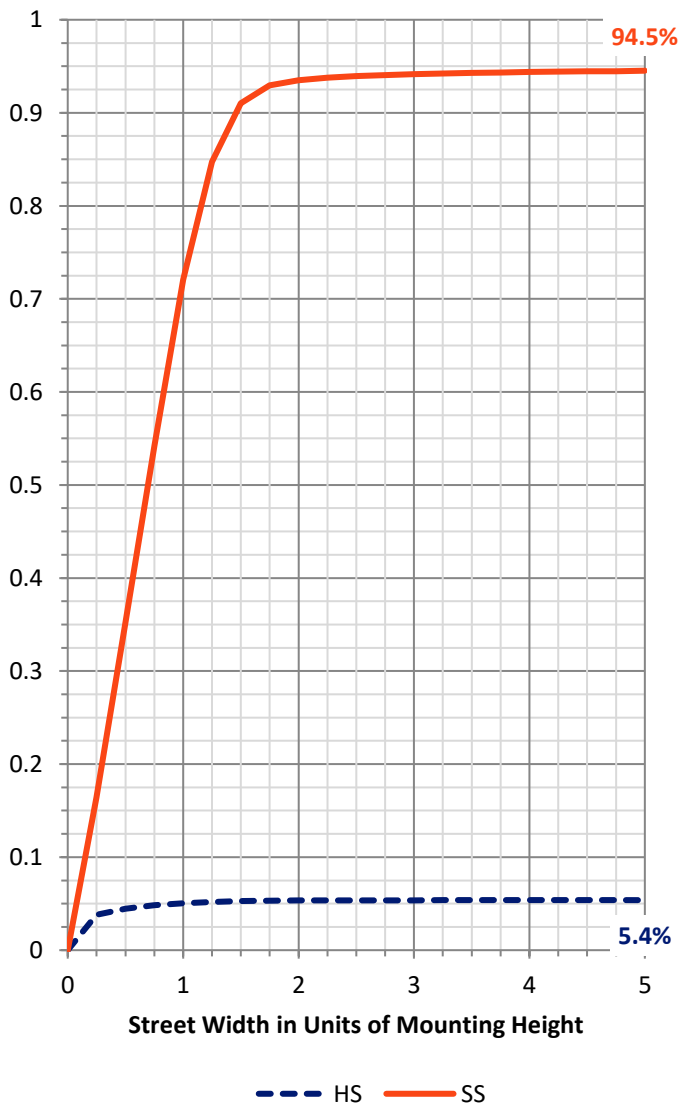
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	368.3	0.0	368.3
	% Fixture	5.4	0.0	5.4
<b>Street Side</b>	Lumens	6444.2	0.0	6444.2
	% Fixture	94.6	0.0	94.6
<b>Total</b>	Lumens	6812.5	0.0	6812.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.5	2.1
10°-20°	372.5	5.5
20°-30°	623.4	9.2
30°-40°	1019.9	15.0
40°-50°	1639.4	24.1
50°-60°	1850.9	27.2
60°-70°	987.3	14.5
70°-80°	162.2	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°	6812.5	100.0
0°-180°	6812.5	100.0



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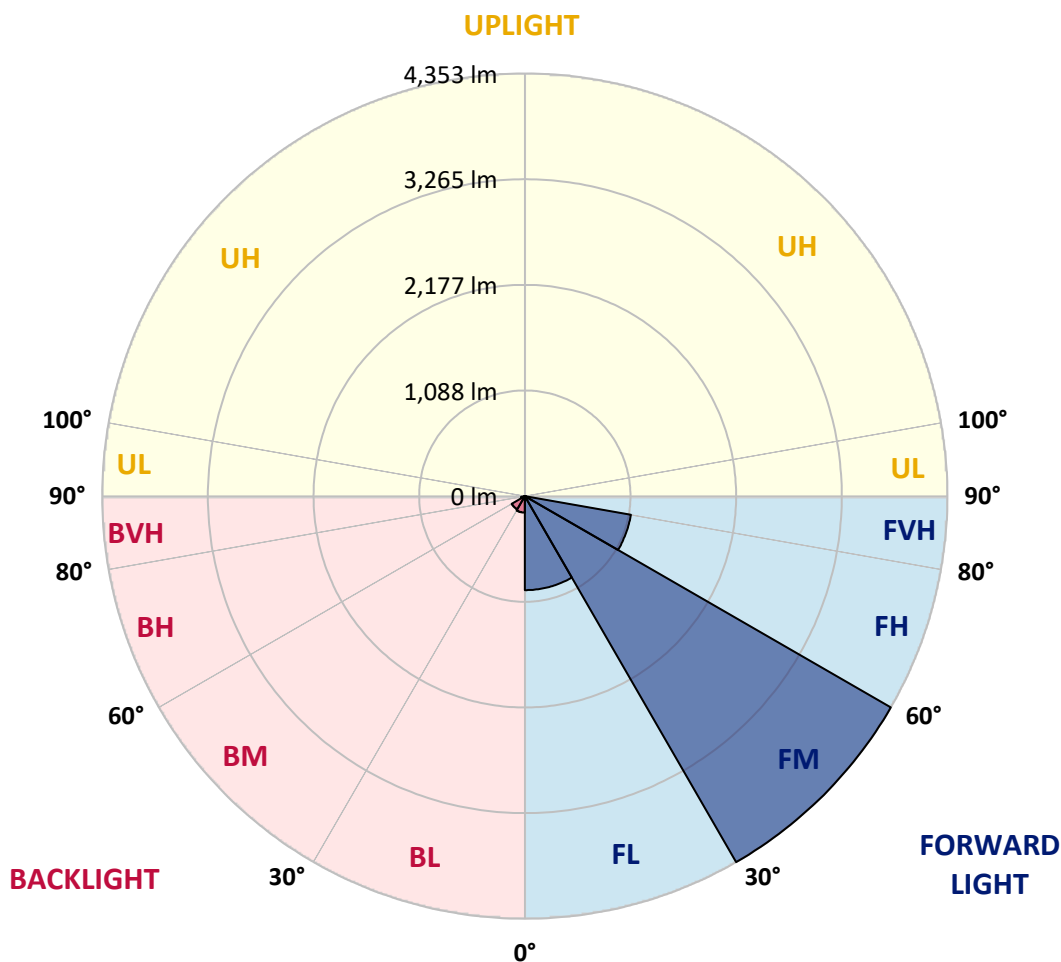
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	968.4	14.2			
FM (30°-60°)	4353.2	63.9			
FH (60°-80°)	1109.2	16.3			G1/1800
FVH (80°-90°)	13.3	0.2			G1/100
BL (0°-30°)	169.9	2.5	B1/500		
BM (30°-60°)	156.9	2.3	B0/220		
BH (60°-80°)	40.3	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°	1594.3	1594.3	1594.3	1594.3	1594.3	1594.3	1594.3	1594.3	1594.3	1594.3	1594.3
2.5°	1911.8	1900.5	1907.0	1889.7	1858.1	1818.7	1759.6	1762.6	1716.0	1675.5	1619.3
5°	2227.6	2215.6	2212.1	2167.9	2123.7	2052.7	1964.9	1950.6	1865.3	1762.0	1644.4
7.5°	2394.1	2384.0	2391.7	2375.6	2332.0	2267.6	2156.5	2145.8	2013.9	1857.5	1684.4
10°	2317.7	2314.1	2346.9	2385.1	2420.4	2412.6	2323.7	2307.0	2158.9	1962.6	1725.6
12.5°	2112.4	2123.7	2165.5	2235.9	2344.6	2446.6	2432.3	2435.3	2307.0	2076.6	1771.0
15°	1991.8	2005.5	2029.4	2065.8	2199.5	2381.0	2473.5	2503.3	2449.0	2203.7	1824.7
17.5°	1981.7	1993.0	1996.6	2010.3	2088.5	2275.3	2456.8	2513.5	2575.6	2323.7	1885.0
20°	2059.8	2064.6	2061.6	2051.5	2079.5	2218.0	2404.2	2485.4	2680.0	2451.4	1938.1
22.5°	2207.3	2200.1	2191.2	2153.6	2151.8	2234.1	2375.6	2460.4	2742.1	2557.0	1973.3
25°	2389.9	2375.0	2362.5	2309.3	2284.3	2318.3	2401.3	2469.3	2798.2	2659.7	1998.4
27.5°	2589.3	2594.1	2563.0	2491.4	2452.0	2444.8	2480.6	2531.4	2852.5	2751.6	2012.1
30°	2802.4	2804.8	2764.2	2690.2	2654.3	2608.4	2606.0	2636.4	2911.0	2857.3	2025.2
32.5°	3045.3	3051.9	2985.6	2908.6	2845.9	2786.3	2757.0	2782.7	3016.1	2995.2	2052.1
35°	3396.3	3367.6	3278.1	3161.7	3072.8	2994.6	2949.8	2966.5	3155.7	3160.5	2105.8
37.5°	3758.0	3755.0	3655.9	3488.2	3342.5	3245.3	3168.9	3196.3	3352.1	3381.9	2191.8
40°	4095.2	4103.0	4017.0	3870.8	3683.4	3516.2	3434.5	3453.0	3612.9	3650.5	2296.2
42.5°	4315.5	4311.3	4317.9	4276.1	4088.1	3891.1	3768.1	3778.3	3916.2	3935.9	2426.9
45°	4416.9	4400.8	4456.9	4589.4	4514.8	4307.7	4167.4	4154.9	4230.7	4225.3	2545.7
47.5°	4329.2	4299.4	4428.3	4747.6	4892.1	4829.4	4628.8	4606.2	4541.7	4498.7	2669.3
50°	3892.9	3879.7	4155.5	4672.4	5129.0	5311.7	5164.2	5080.1	4819.2	4700.5	2734.3
52.5°	3478.0	3441.6	3627.9	4288.6	5023.4	5699.6	5730.1	5580.3	5049.6	4758.4	2712.2
55°	2809.5	2764.8	2967.7	3523.4	4605.0	5749.2	6127.6	6049.4	5251.4	4686.7	2667.5
57.5°	1706.5	1662.3	1960.8	2523.6	3682.8	5337.3	6029.7	6109.1	5406.6	4607.9	2638.2
60°	717.5	689.4	806.4	1204.5	2351.7	4386.5	5510.4	5708.6	5435.8	4499.9	2650.2
62.5°	373.1	360.5	367.1	482.3	950.8	2888.3	4586.5	4931.5	5141.0	4452.2	2662.1
65°	279.9	270.4	249.5	265.0	369.5	1248.7	3296.0	3758.0	4501.7	4331.0	2581.5
67.5°	229.8	220.8	205.9	201.1	217.9	433.3	1682.6	2283.1	3527.6	3814.7	2292.6
70°	183.2	180.3	175.5	166.5	163.5	210.1	603.4	930.5	2332.6	2690.2	1661.7
72.5°	152.8	153.4	148.0	140.3	129.5	135.5	240.5	318.1	1128.7	1289.9	696.0
75°	127.7	127.7	129.5	118.8	108.0	93.1	133.7	155.2	362.3	297.8	148.6
77.5°	100.3	101.5	109.2	100.3	86.5	58.5	72.8	83.0	107.4	86.0	54.3
80°	80.0	78.8	75.8	90.1	77.6	41.2	34.6	38.2	50.1	41.2	26.9
82.5°	56.1	55.5	53.1	60.9	60.3	30.4	22.7	23.3	30.4	26.3	16.7
85°	13.7	16.1	34.0	28.7	25.1	17.9	13.7	14.9	19.7	17.3	9.0
87.5°	6.0	6.0	15.5	18.5	11.9	7.8	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°	1594.3	1594.3	1594.3	1594.3	1594.3	1594.3	1594.3	1594.3	1594.3	1594.3	1594.3
2.5°	1599.6	1560.9	1511.9	1460.0	1406.9	1343.0	1302.4	1269.0	1242.7	1222.4	1215.3
5°	1605.6	1531.0	1420.0	1282.1	1141.8	1010.5	909.1	833.8	771.8	737.7	722.8
7.5°	1605.0	1505.9	1305.4	1074.4	846.4	657.2	522.9	439.9	384.4	361.7	348.0
10°	1604.4	1473.1	1174.7	844.0	565.8	380.8	280.5	234.0	213.7	205.9	204.7
12.5°	1621.7	1435.5	1028.4	621.4	355.1	237.0	195.2	184.4	179.7	177.3	176.7
15°	1631.3	1400.9	874.4	438.7	239.4	187.4	174.3	169.5	167.7	166.5	165.9
17.5°	1641.4	1347.2	728.2	317.5	191.6	170.1	162.4	159.4	158.2	158.2	158.2
20°	1643.2	1289.3	583.2	234.0	170.1	158.8	151.0	148.0	146.2	145.0	145.0
22.5°	1630.1	1220.6	458.4	189.8	157.6	148.0	139.7	134.9	131.9	131.3	131.3
25°	1597.3	1123.3	351.6	166.5	147.4	137.3	127.1	121.8	119.4	119.4	119.4
27.5°	1550.1	1008.7	271.6	148.0	134.3	124.2	115.2	110.4	109.8	109.2	109.8
30°	1496.4	898.3	207.7	131.3	118.8	110.4	103.3	100.9	102.1	102.1	102.7
32.5°	1442.7	787.9	162.4	118.2	105.1	97.9	94.3	94.3	96.1	96.1	96.1
35°	1396.7	679.9	136.1	107.4	95.5	89.5	87.7	89.5	90.7	91.3	91.3
37.5°	1371.0	586.7	120.0	97.9	87.7	83.0	82.4	84.2	86.5	88.3	88.9
40°	1361.5	515.1	110.4	90.7	80.6	77.6	77.0	79.4	83.6	86.5	87.1
42.5°	1362.1	451.8	102.1	83.6	75.8	71.6	71.6	75.2	79.4	82.4	82.4
45°	1366.3	397.5	93.7	76.4	71.6	64.5	65.1	69.8	72.8	75.8	75.8
47.5°	1369.8	354.0	84.8	68.6	62.1	58.5	59.7	63.3	67.4	72.2	72.2
50°	1349.0	322.9	75.8	60.3	54.3	53.1	55.5	58.5	64.5	69.2	69.8
52.5°	1298.8	294.9	68.0	53.7	48.9	49.5	52.5	54.3	59.1	59.7	60.3
55°	1276.7	280.5	62.1	48.9	44.8	46.6	48.3	48.9	47.8	44.8	44.8
57.5°	1272.0	271.0	56.1	44.2	41.2	43.6	43.0	39.4	35.8	32.2	31.6
60°	1276.7	257.9	51.3	38.2	37.6	38.2	36.4	29.8	25.1	22.7	21.5
62.5°	1249.3	238.8	47.2	32.8	32.8	32.2	27.5	20.3	16.1	14.3	13.7
65°	1158.6	201.1	43.0	27.5	26.9	25.7	18.5	13.7	10.7	9.0	8.4
67.5°	980.1	155.8	38.8	22.7	21.5	17.9	11.9	9.0	6.0	5.4	4.8
70°	668.5	96.7	32.8	17.9	16.1	11.3	7.2	5.4	3.6	3.0	2.4
72.5°	242.3	56.1	27.5	13.7	10.7	7.2	4.2	2.4	1.8	1.8	1.2
75°	57.3	39.4	20.9	10.1	7.2	4.2	2.4	1.8	1.2	1.2	0.6
77.5°	26.3	30.4	13.7	6.0	4.8	3.0	1.8	1.2	0.6	0.6	0.0
80°	14.9	21.5	6.6	4.2	3.6	2.4	1.2	0.6	0.6	0.0	0.0
82.5°	7.8	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)