

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: P671975

Luminaire Tested: **CCP-SA-2D-740-U-AFL**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671975  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2D-740-U-AFL  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ AFL distribution lens  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

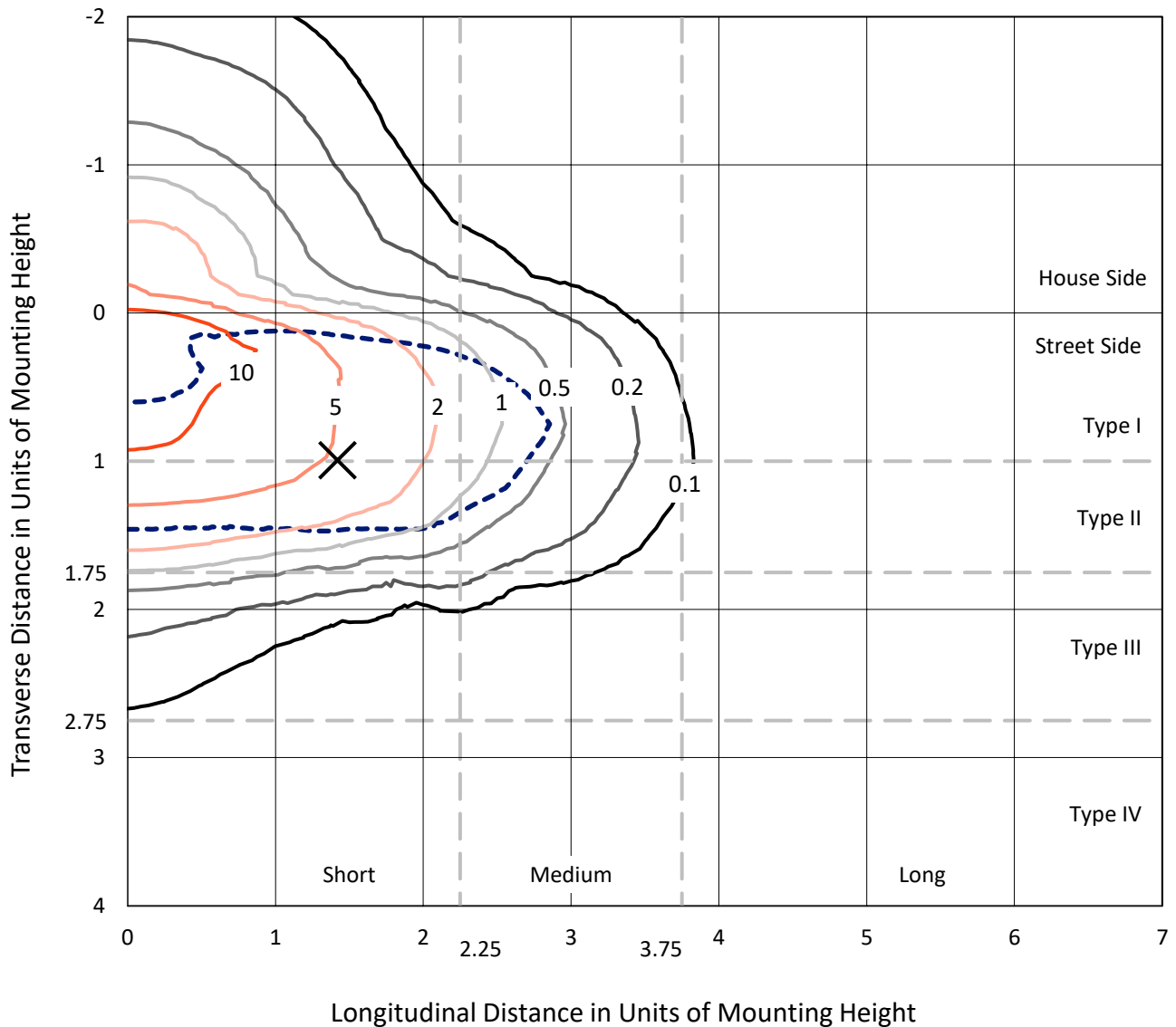
Lumens per Lamp: N/A  
Luminaire Lumens: 11254.9 lumens  
Efficiency: N/A  
Efficacy: 139.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

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

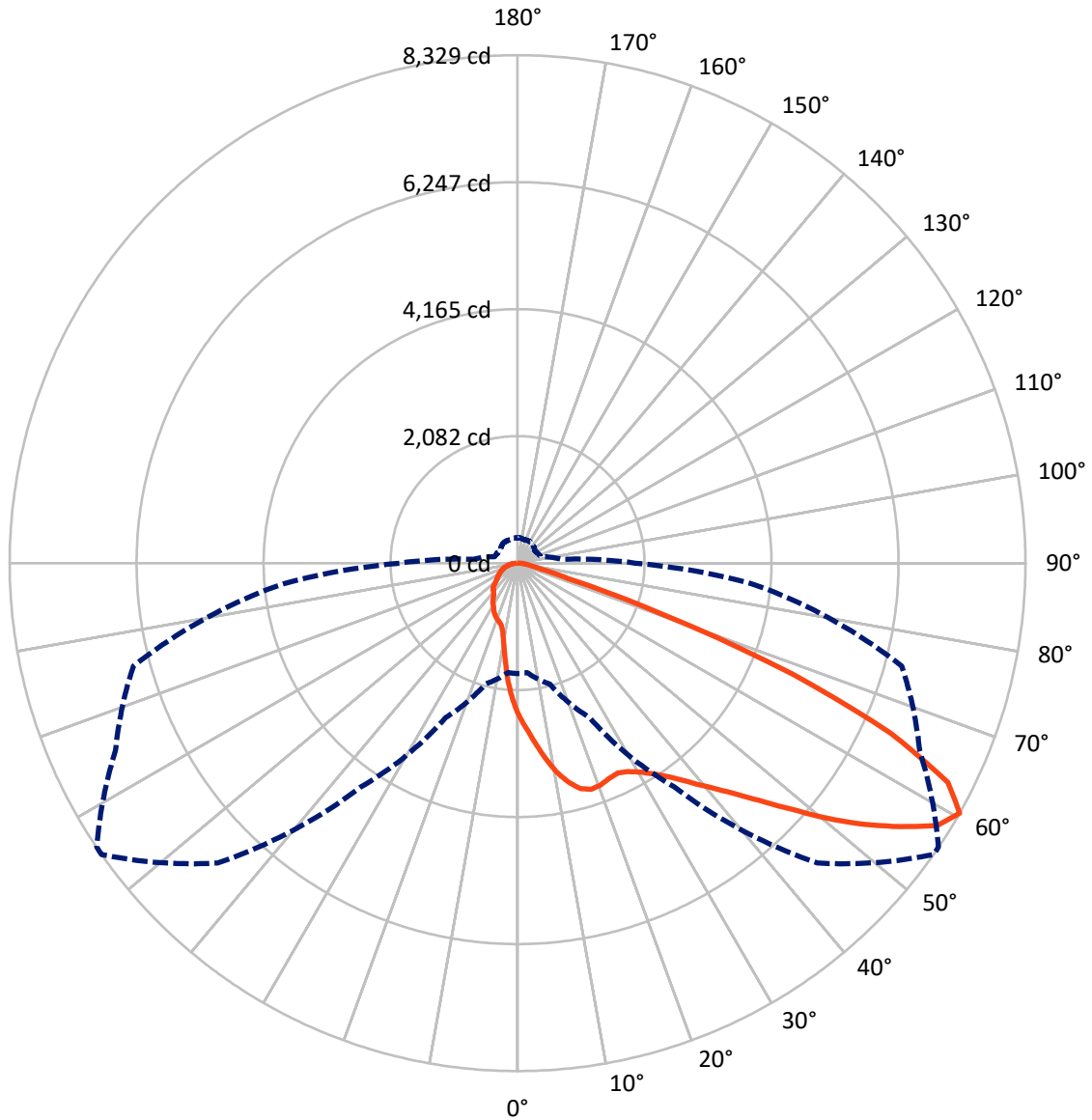
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 15.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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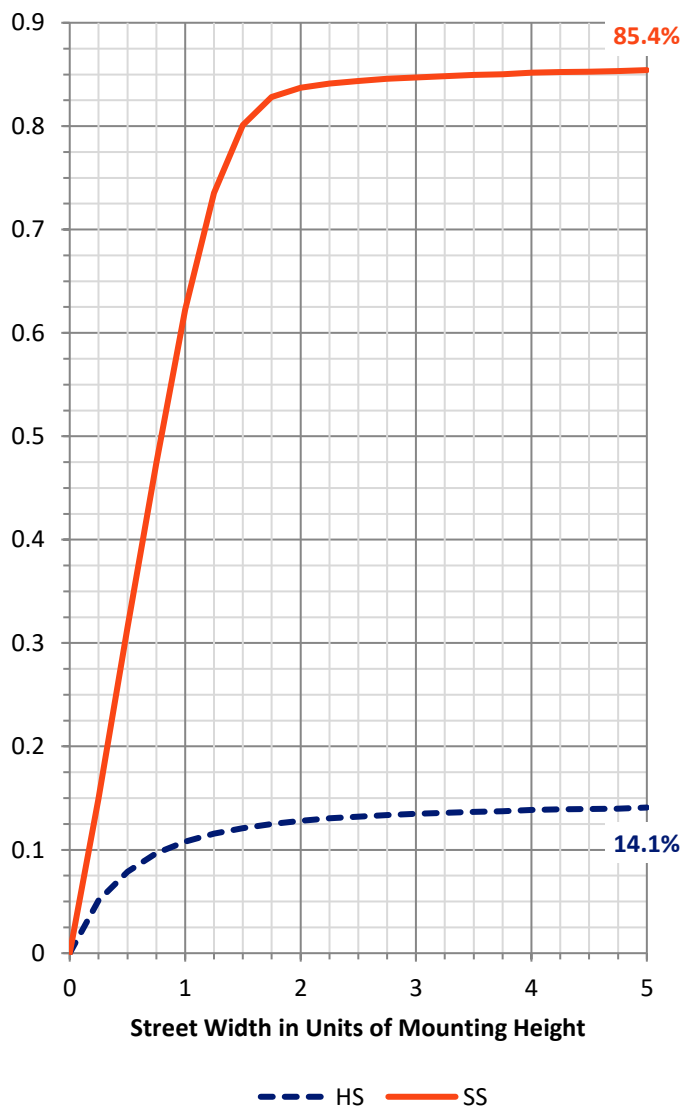
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1617.9	0.0	1617.9
	% Fixture	14.4	0.0	14.4
<b>Street Side</b>	Lumens	9636.9	0.0	9636.9
	% Fixture	85.6	0.0	85.6
<b>Total</b>	Lumens	11254.9	0.0	11254.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.6	2.1
10°-20°	661.8	5.9
20°-30°	1077.5	9.6
30°-40°	1610.5	14.3
40°-50°	2367.0	21.0
50°-60°	2774.3	24.6
60°-70°	1829.2	16.3
70°-80°	582.5	5.2
80°-90°	118.4	1.1
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°	11254.9	100.0
0°-180°	11254.9	100.0



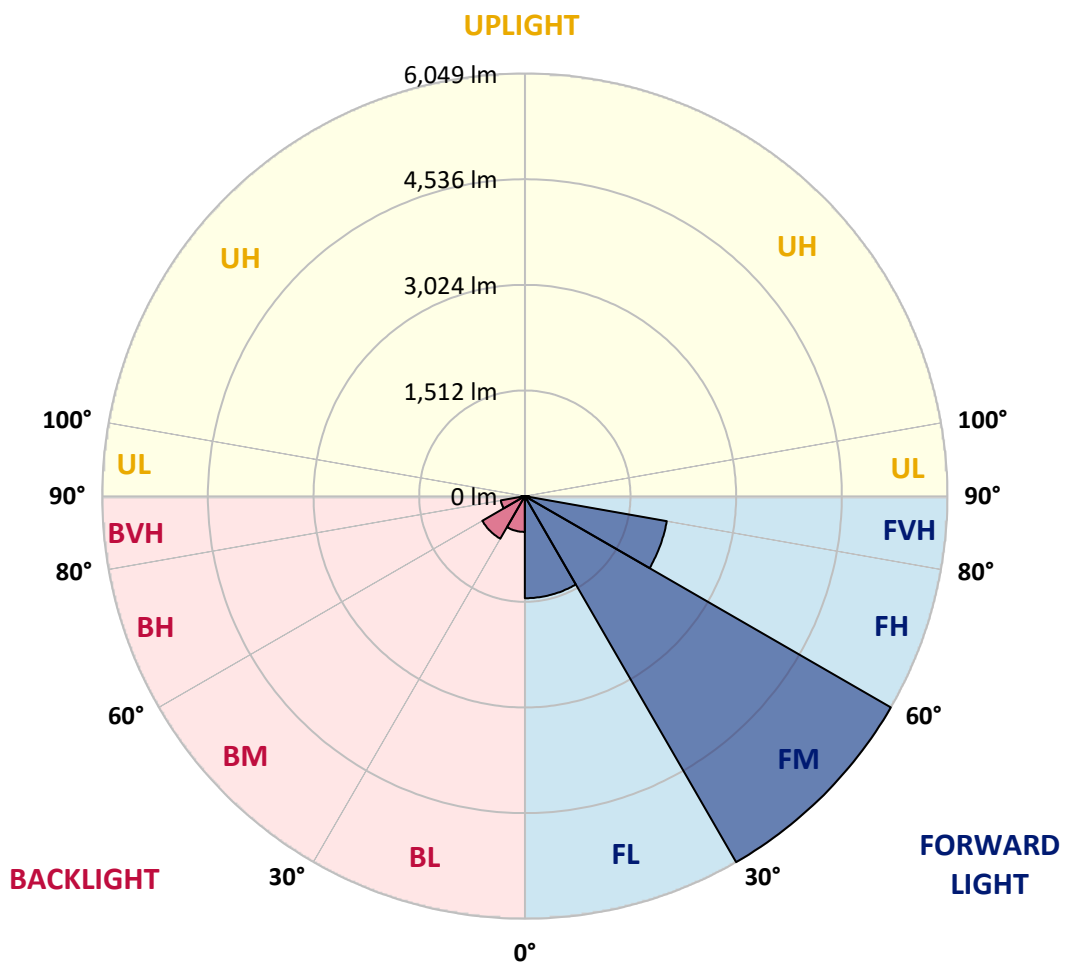
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1460.8	13.0			
FM (30°-60°)	6048.6	53.7			
FH (60°-80°)	2062.6	18.3			G2/5000
FVH (80°-90°)	65.0	0.6			G1/100
BL (0°-30°)	512.1	4.6	B2/1000		
BM (30°-60°)	703.2	6.2	B1/1000		
BH (60°-80°)	349.1	3.1	B1/500		G1/500
BVH (80°-90°)	53.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1
2.5°	2904.7	2894.1	2894.1	2867.2	2827.2	2771.8	2705.7	2689.4	2664.1	2599.7	2516.5
5°	3347.7	3336.3	3320.8	3273.4	3199.2	3088.3	2948.8	2923.5	2833.0	2700.0	2549.9
7.5°	3640.5	3634.0	3629.1	3588.3	3514.9	3405.6	3218.8	3190.2	3036.9	2816.6	2581.7
10°	3610.3	3629.9	3664.2	3692.7	3707.4	3651.1	3475.7	3442.3	3252.2	2952.1	2629.0
12.5°	3327.3	3355.0	3418.6	3535.3	3669.9	3778.4	3678.9	3660.1	3482.3	3095.6	2688.6
15°	3116.8	3128.2	3159.2	3245.7	3446.4	3736.0	3836.3	3819.2	3696.8	3280.0	2757.1
17.5°	3051.6	3056.5	3063.8	3092.4	3229.4	3570.4	3900.7	3917.0	3904.8	3471.7	2834.6
20°	3084.2	3087.5	3088.3	3093.2	3158.4	3431.7	3883.6	3911.3	4087.5	3663.4	2911.3
22.5°	3209.8	3205.7	3200.0	3181.3	3218.0	3407.2	3837.9	3882.0	4228.6	3837.9	2982.2
25°	3429.2	3423.5	3383.6	3344.4	3359.9	3495.3	3813.4	3860.8	4338.8	4002.7	3034.4
27.5°	3690.3	3684.6	3643.8	3569.5	3553.2	3642.1	3870.5	3899.9	4419.5	4148.7	3057.3
30°	3961.1	3961.1	3910.5	3824.9	3772.7	3810.2	3975.8	3999.4	4480.7	4289.8	3072.0
32.5°	4256.4	4264.5	4186.2	4088.3	4030.4	4008.4	4123.4	4143.8	4569.6	4456.2	3103.0
35°	4635.7	4617.7	4522.3	4393.4	4300.4	4250.7	4306.1	4329.8	4700.1	4663.4	3152.7
37.5°	5062.3	5030.5	4913.0	4758.9	4596.5	4513.3	4550.0	4555.7	4893.4	4933.4	3243.3
40°	5414.7	5409.0	5309.5	5163.4	4958.7	4846.9	4829.0	4832.3	5161.8	5253.2	3380.3
42.5°	5711.6	5690.4	5672.4	5621.1	5404.1	5220.5	5147.1	5147.9	5453.0	5583.5	3518.2
45°	5842.9	5838.9	5891.9	6024.0	5868.2	5652.1	5547.6	5562.3	5786.6	5922.9	3651.1
47.5°	5786.6	5789.9	5931.8	6278.5	6370.7	6205.1	6019.9	6011.0	6109.7	6183.1	3768.6
50°	5284.2	5337.2	5721.4	6302.2	6700.2	6782.6	6573.8	6540.4	6392.7	6390.3	3840.4
52.5°	4904.9	4902.4	5138.2	6061.5	6816.9	7303.9	7116.3	7041.2	6626.8	6506.9	3846.1
55°	4392.6	4389.3	4564.7	5357.6	6585.2	7667.7	7627.7	7533.9	6841.4	6545.3	3806.9
57.5°	3326.5	3388.5	3563.0	4289.0	5851.1	7609.8	8116.3	8038.0	7051.0	6528.1	3799.6
60°	1810.1	1802.7	2055.6	2795.4	4479.9	6952.3	8329.2	8325.1	7273.7	6521.6	3844.4
62.5°	834.5	826.3	876.9	1244.8	2568.7	5569.7	7918.1	7976.8	7480.1	6462.1	3840.4
65°	624.0	602.8	534.3	579.2	982.9	3324.8	6725.5	6882.1	7161.9	6217.3	3662.5
67.5°	556.3	535.9	456.0	427.4	493.5	1173.0	4878.8	5023.1	5988.9	5758.9	3374.6
70°	509.8	491.9	411.9	367.1	370.3	519.6	2554.0	2837.9	4389.3	4806.2	2876.2
72.5°	465.0	449.5	376.9	323.0	311.6	343.4	870.4	1049.8	2730.2	3502.7	2144.5
75°	417.6	403.0	339.3	289.6	267.6	254.5	414.4	446.2	1443.8	1934.0	1151.0
77.5°	363.0	354.8	302.6	255.3	236.6	192.5	275.7	289.6	618.3	759.4	548.2
80°	315.7	309.2	270.0	231.7	212.1	148.5	190.1	199.8	305.1	379.3	306.7
82.5°	205.6	221.9	223.5	199.0	186.8	119.1	125.6	133.0	202.3	223.5	133.8
85°	84.8	102.8	154.2	137.0	129.7	101.1	83.2	84.8	124.0	130.5	48.1
87.5°	38.3	42.4	75.9	76.7	66.9	38.3	41.6	45.7	63.6	62.8	21.2
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°	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1
2.5°	2493.6	2456.1	2389.2	2303.6	2242.4	2197.5	2148.6	2112.7	2072.7	2037.6	2043.4
5°	2487.9	2415.3	2265.2	2106.2	1951.2	1823.9	1717.9	1639.6	1558.8	1527.0	1522.9
7.5°	2492.8	2369.6	2123.3	1863.1	1627.3	1465.0	1341.8	1267.6	1221.1	1194.2	1195.8
10°	2491.2	2326.4	1969.9	1611.0	1353.3	1204.8	1129.8	1105.3	1101.2	1104.5	1109.4
12.5°	2493.6	2267.7	1797.8	1384.3	1156.7	1080.8	1084.1	1106.1	1120.0	1128.9	1134.7
15°	2504.2	2219.5	1621.6	1205.6	1053.9	1056.3	1091.4	1125.7	1146.1	1155.9	1160.8
17.5°	2519.7	2159.2	1465.0	1070.2	1010.7	1048.2	1093.9	1130.6	1146.1	1151.8	1155.9
20°	2521.4	2089.8	1306.8	977.2	982.1	1031.1	1071.0	1100.4	1120.0	1126.5	1129.8
22.5°	2514.0	1996.0	1144.4	909.5	949.5	998.4	1032.7	1066.1	1040.0	1018.8	1013.1
25°	2483.0	1877.8	1005.8	854.0	908.7	954.4	993.5	956.8	944.6	928.3	929.9
27.5°	2416.1	1730.1	875.3	801.8	860.6	925.8	897.3	892.4	876.9	860.6	860.6
30°	2328.0	1574.3	766.0	747.2	802.7	835.3	841.8	834.5	825.5	804.3	805.9
32.5°	2248.9	1409.5	688.5	701.5	766.0	766.0	794.5	794.5	761.9	702.3	702.3
35°	2170.6	1254.6	631.4	663.2	705.6	719.5	758.6	707.2	660.7	633.8	632.2
37.5°	2109.4	1122.4	593.8	630.5	646.9	681.9	682.7	645.2	629.7	605.3	602.8
40°	2073.5	1011.5	571.0	614.2	615.9	648.5	594.7	605.3	602.0	583.2	580.8
42.5°	2054.0	925.8	553.9	600.4	592.2	560.4	550.6	568.5	574.3	564.5	560.4
45°	2038.5	858.9	540.0	552.2	573.4	515.5	511.4	525.3	537.6	536.7	533.5
47.5°	2030.3	812.4	527.8	522.1	526.1	488.6	480.5	487.0	502.5	512.3	511.4
50°	1998.5	776.6	509.8	491.1	465.0	465.0	460.9	460.9	479.6	499.2	500.8
52.5°	1942.2	734.1	483.7	461.7	431.5	444.6	446.2	442.9	462.5	483.7	485.3
55°	1880.2	702.3	448.6	434.8	403.8	425.8	433.1	429.9	442.9	457.6	456.8
57.5°	1881.0	701.5	418.5	407.9	377.7	402.1	420.1	420.9	420.1	430.7	430.7
60°	1928.3	717.8	394.8	372.0	347.5	376.9	406.2	406.2	400.5	416.0	417.6
62.5°	1942.2	716.2	380.1	337.7	320.6	354.0	385.8	390.7	386.6	408.7	411.1
65°	1819.8	677.9	365.4	306.7	296.1	328.7	360.5	374.4	370.3	398.9	402.1
67.5°	1650.2	628.1	342.6	279.0	270.8	304.3	334.4	349.1	348.3	385.8	387.5
70°	1422.6	566.9	314.0	250.4	246.3	275.7	302.6	318.1	325.5	368.7	367.9
72.5°	1102.0	486.2	270.8	220.2	219.4	246.3	270.0	287.1	301.0	342.6	342.6
75°	710.5	382.6	221.1	190.9	187.6	212.9	237.4	256.9	299.4	365.4	364.6
77.5°	434.0	292.0	177.8	159.1	158.2	181.1	205.6	239.0	327.1	325.5	316.5
80°	260.2	209.6	141.9	127.3	127.3	148.5	175.4	256.1	271.6	310.0	292.8
82.5°	135.4	128.9	106.0	93.8	97.9	116.6	159.9	204.7	221.9	188.4	172.9
85°	55.5	68.5	65.3	59.5	62.0	80.8	154.2	164.0	131.3	137.9	138.7
87.5°	18.8	30.2	30.2	23.7	26.1	57.1	91.4	54.7	66.1	39.2	29.4
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)