

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: P671986

Luminaire Tested: **CCP-SA-2D-750-U-AFL**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671986  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2D-750-U-AFL  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ AFL distribution lens  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

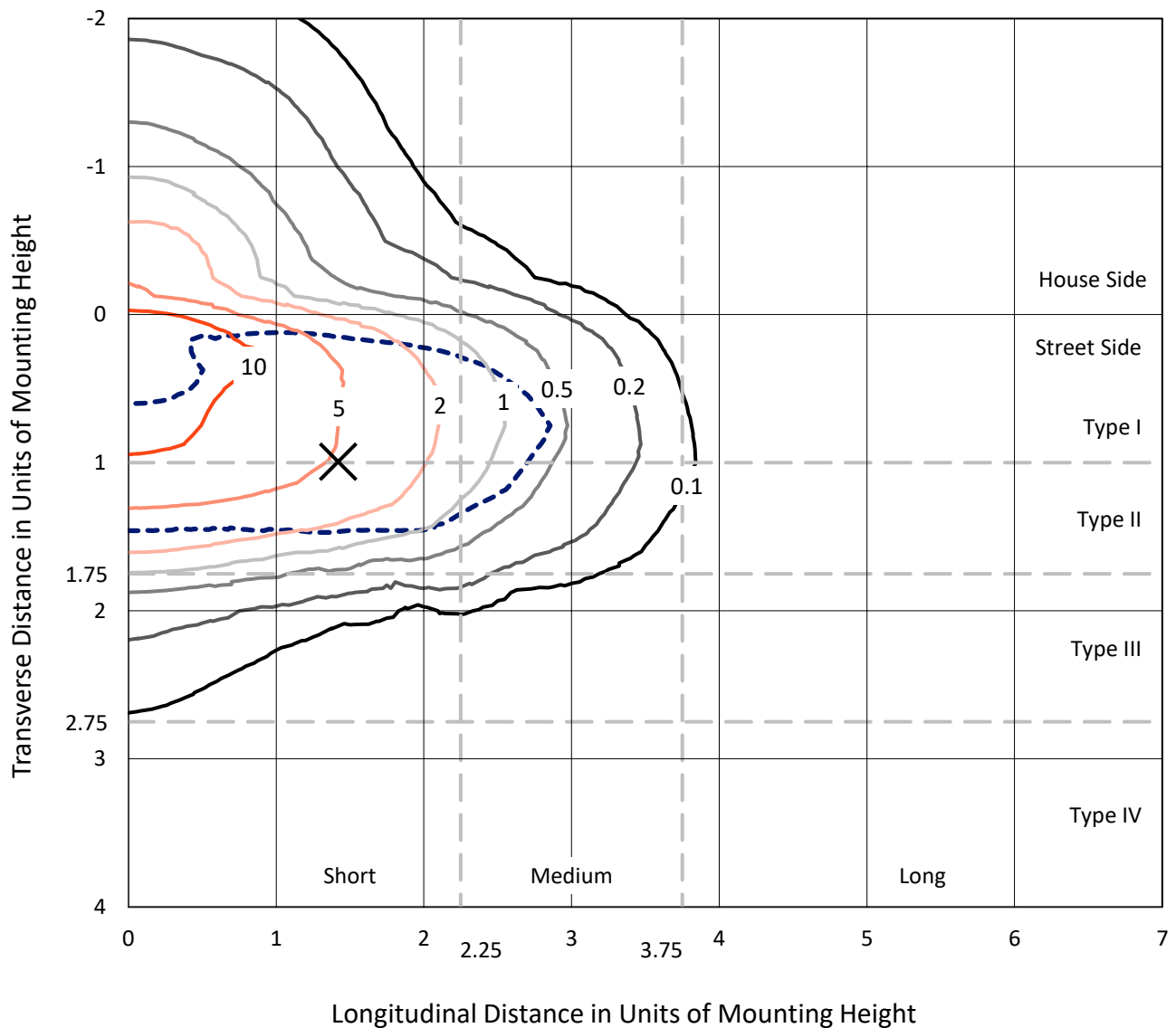
Lumens per Lamp: N/A  
Luminaire Lumens: 11512.6 lumens  
Efficiency: N/A  
Efficacy: 142.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

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

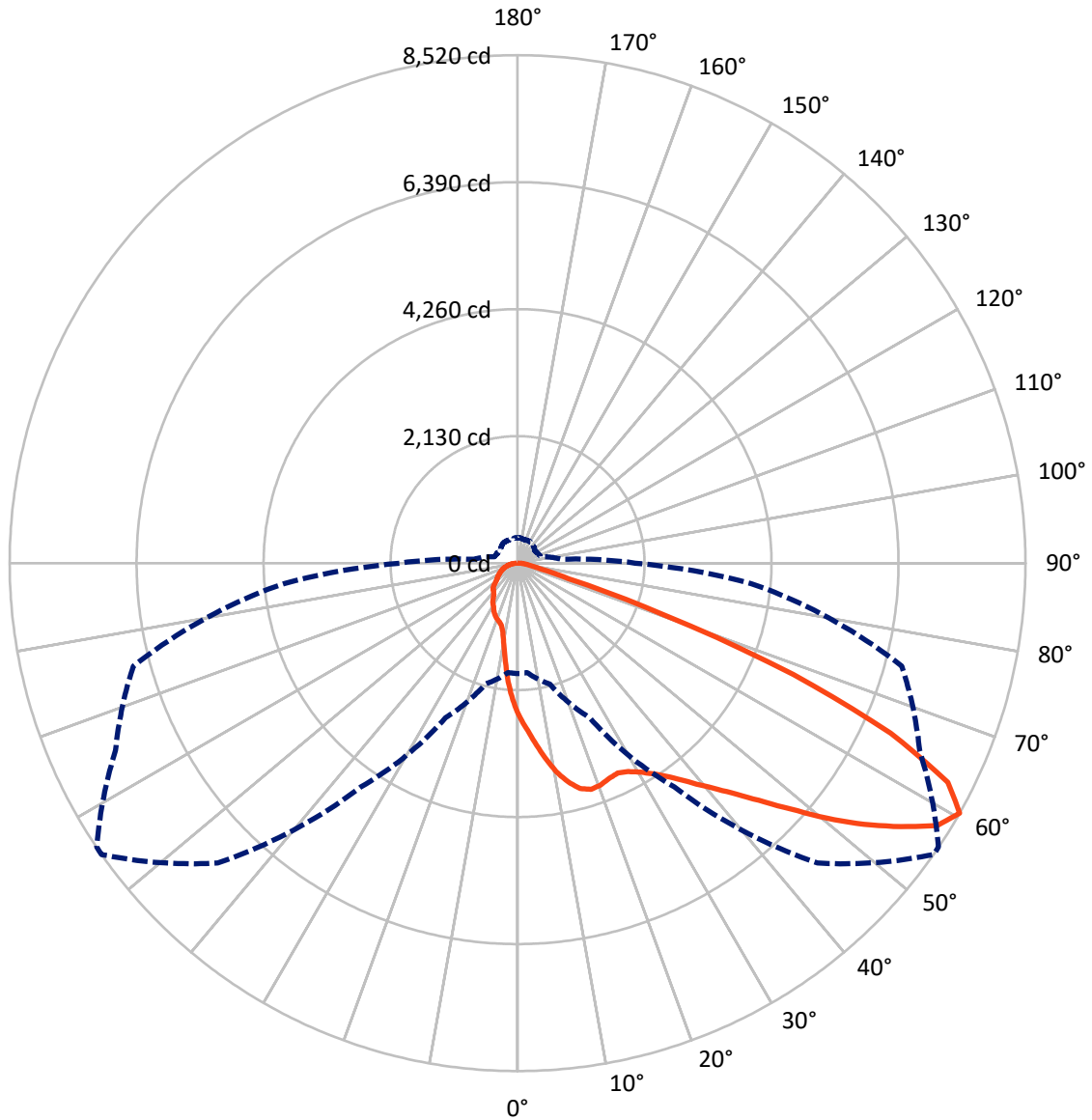
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 16 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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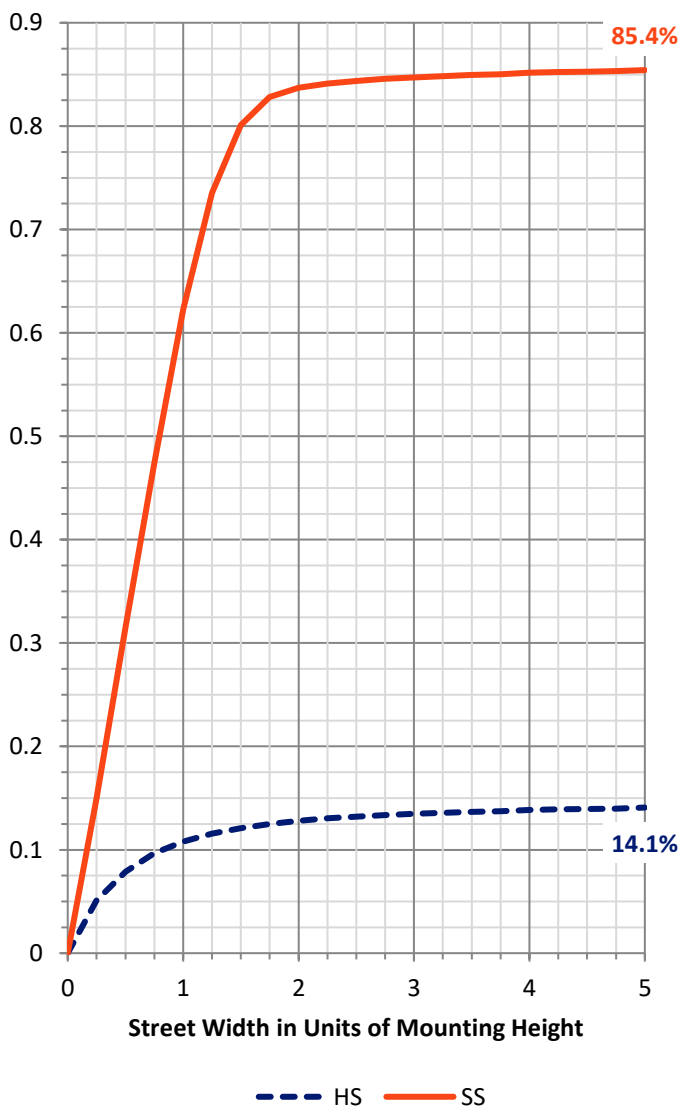
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1655.0	0.0	1655.0
	% Fixture	14.4	0.0	14.4
<b>Street Side</b>	Lumens	9857.6	0.0	9857.6
	% Fixture	85.6	0.0	85.6
<b>Total</b>	Lumens	11512.6	0.0	11512.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.9	2.1
10°-20°	676.9	5.9
20°-30°	1102.2	9.6
30°-40°	1647.4	14.3
40°-50°	2421.2	21.0
50°-60°	2837.8	24.6
60°-70°	1871.1	16.3
70°-80°	595.8	5.2
80°-90°	121.1	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°	11512.6	100.0
0°-180°	11512.6	100.0



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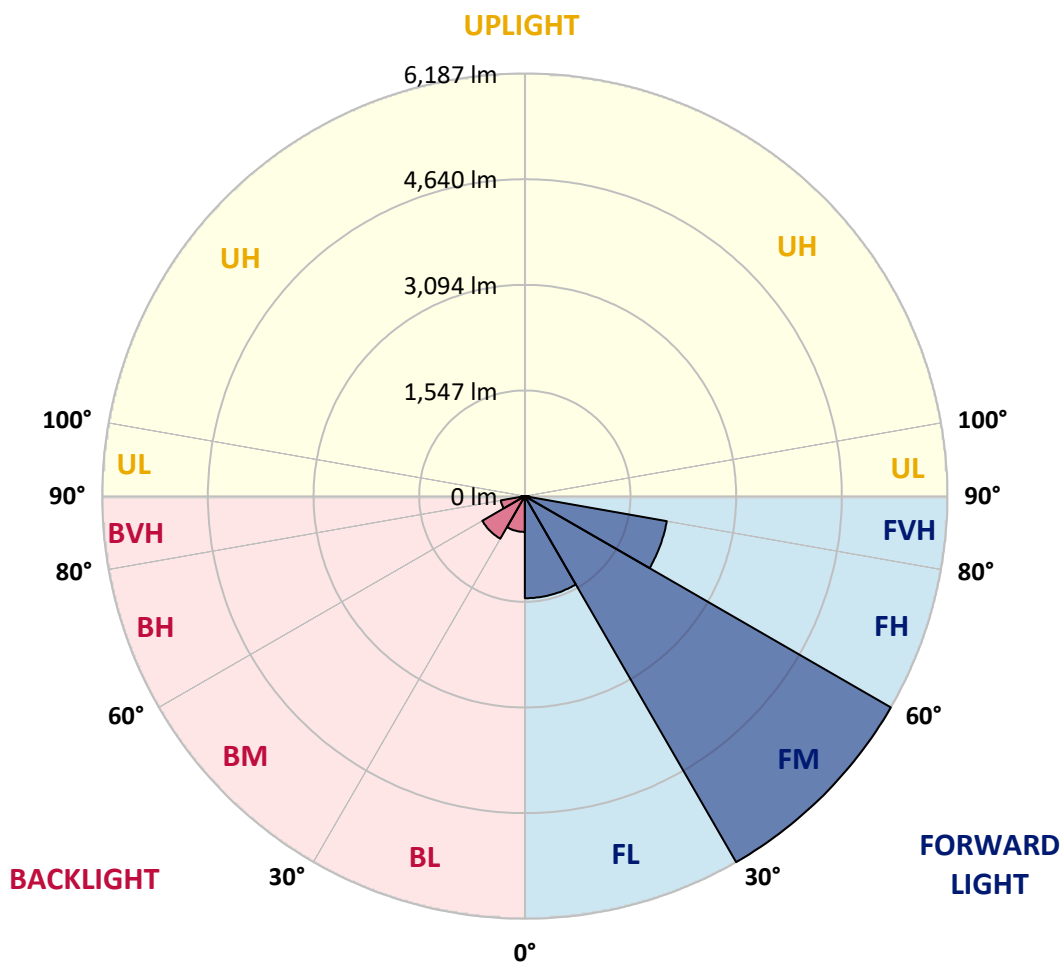
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1494.2	13.0			
FM (30°-60°)	6187.1	53.7			
FH (60°-80°)	2109.8	18.3			G2/5000
FVH (80°-90°)	66.4	0.6			G1/100
BL (0°-30°)	523.9	4.6	B2/1000		
BM (30°-60°)	719.3	6.2	B1/1000		
BH (60°-80°)	357.1	3.1	B1/500		G1/500
BVH (80°-90°)	54.7	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°	2553.2	2553.2	2553.2	2553.2	2553.2	2553.2	2553.2	2553.2	2553.2	2553.2	2553.2
2.5°	2971.3	2960.4	2960.4	2932.9	2892.0	2835.3	2767.7	2751.0	2725.1	2659.2	2574.1
5°	3424.3	3412.7	3396.8	3348.4	3272.5	3159.0	3016.3	2990.5	2897.8	2761.8	2608.3
7.5°	3723.9	3717.2	3712.2	3670.5	3595.4	3483.6	3292.5	3263.3	3106.4	2881.1	2640.8
10°	3693.0	3713.0	3748.1	3777.3	3792.3	3734.7	3555.3	3521.1	3326.7	3019.7	2689.2
12.5°	3403.5	3431.8	3496.9	3616.2	3753.9	3864.9	3763.1	3743.9	3562.0	3166.5	2750.1
15°	3188.2	3199.9	3231.6	3320.0	3525.3	3821.5	3924.1	3906.6	3781.5	3355.1	2820.2
17.5°	3121.5	3126.5	3134.0	3163.2	3303.3	3652.1	3990.1	4006.7	3994.2	3551.2	2899.5
20°	3154.8	3158.2	3159.0	3164.0	3230.8	3510.3	3972.5	4000.9	4181.1	3747.2	2977.9
22.5°	3283.3	3279.2	3273.3	3254.1	3291.7	3485.2	3925.8	3970.9	4325.5	3925.8	3050.5
25°	3507.8	3501.9	3461.0	3421.0	3436.9	3575.4	3900.8	3949.2	4438.1	4094.3	3103.9
27.5°	3774.8	3768.9	3727.2	3651.3	3634.6	3725.5	3959.2	3989.2	4520.7	4243.7	3127.3
30°	4051.8	4051.8	4000.1	3912.5	3859.1	3897.4	4066.8	4091.0	4583.3	4388.1	3142.3
32.5°	4353.8	4362.2	4282.1	4182.0	4122.7	4100.2	4217.8	4238.7	4674.2	4558.3	3174.0
35°	4741.8	4723.5	4625.9	4494.0	4398.9	4348.0	4404.7	4428.9	4807.8	4770.2	3224.9
37.5°	5178.2	5145.7	5025.5	4867.8	4701.8	4616.7	4654.2	4660.1	5005.5	5046.4	3317.5
40°	5538.7	5532.8	5431.0	5281.7	5072.3	4957.9	4939.6	4942.9	5280.0	5373.5	3457.7
42.5°	5842.4	5820.7	5802.3	5749.8	5527.8	5340.1	5265.0	5265.8	5577.9	5711.4	3598.7
45°	5976.7	5972.6	6026.8	6162.0	6002.6	5781.5	5674.7	5689.7	5919.2	6058.5	3734.7
47.5°	5919.2	5922.5	6067.7	6422.3	6516.6	6347.2	6157.8	6148.6	6249.6	6324.7	3854.9
50°	5405.2	5459.4	5852.4	6446.5	6853.7	6937.9	6724.3	6690.1	6539.1	6536.6	3928.3
52.5°	5017.2	5014.7	5255.8	6200.3	6973.0	7471.1	7279.2	7202.4	6778.6	6655.9	3934.1
55°	4493.2	4489.8	4669.2	5480.3	6736.0	7843.3	7802.4	7706.4	6998.0	6695.1	3894.1
57.5°	3402.6	3466.1	3644.6	4387.2	5985.1	7784.0	8302.2	8222.1	7212.5	6677.6	3886.6
60°	1851.5	1844.0	2102.7	2859.5	4582.5	7111.5	8520.0	8515.8	7440.3	6670.9	3932.5
62.5°	853.6	845.2	897.0	1273.3	2627.5	5697.2	8099.4	8159.5	7651.4	6610.0	3928.3
65°	638.3	616.6	546.5	592.4	1005.4	3401.0	6879.5	7039.7	7325.9	6359.7	3746.4
67.5°	569.1	548.2	466.4	437.2	504.8	1199.9	4990.5	5138.2	6126.1	5890.8	3451.9
70°	521.5	503.1	421.4	375.5	378.8	531.5	2612.5	2902.8	4489.8	4916.2	2942.1
72.5°	475.6	459.7	385.5	330.4	318.7	351.3	890.3	1073.9	2792.7	3582.9	2193.6
75°	427.2	412.2	347.1	296.2	273.7	260.3	423.9	456.4	1476.9	1978.3	1177.3
77.5°	371.3	363.0	309.6	261.2	242.0	196.9	282.0	296.2	632.5	776.8	560.7
80°	322.9	316.2	276.2	237.0	216.9	151.9	194.4	204.4	312.1	388.0	313.7
82.5°	210.3	227.0	228.6	203.6	191.1	121.8	128.5	136.0	206.9	228.6	136.8
85°	86.8	105.1	157.7	140.2	132.7	103.5	85.1	86.8	126.8	133.5	49.2
87.5°	39.2	43.4	77.6	78.4	68.4	39.2	42.6	46.7	65.1	64.2	21.7
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°	2553.2	2553.2	2553.2	2553.2	2553.2	2553.2	2553.2	2553.2	2553.2	2553.2	2553.2
2.5°	2550.7	2512.3	2443.9	2356.3	2293.7	2247.8	2197.8	2161.1	2120.2	2084.3	2090.1
5°	2544.9	2470.6	2317.1	2154.4	1995.9	1865.7	1757.2	1677.1	1594.5	1562.0	1557.8
7.5°	2549.9	2423.9	2171.9	1905.7	1664.6	1498.6	1372.6	1296.6	1249.1	1221.5	1223.2
10°	2548.2	2379.7	2015.1	1647.9	1384.3	1232.4	1155.6	1130.6	1126.4	1129.8	1134.8
12.5°	2550.7	2319.6	1839.0	1416.0	1183.2	1105.6	1108.9	1131.4	1145.6	1154.8	1160.6
15°	2561.6	2270.4	1658.8	1233.2	1078.0	1080.5	1116.4	1151.5	1172.3	1182.3	1187.3
17.5°	2577.4	2208.6	1498.6	1094.7	1033.8	1072.2	1118.9	1156.5	1172.3	1178.2	1182.3
20°	2579.1	2137.7	1336.7	999.6	1004.6	1054.7	1095.6	1125.6	1145.6	1152.3	1155.6
22.5°	2571.6	2041.8	1170.6	930.3	971.2	1021.3	1056.3	1090.5	1063.8	1042.2	1036.3
25°	2539.9	1920.8	1028.8	873.6	929.5	976.2	1016.3	978.7	966.2	949.5	951.2
27.5°	2471.5	1769.7	895.3	820.2	880.3	947.0	917.8	912.8	897.0	880.3	880.3
30°	2381.3	1610.4	783.5	764.3	821.0	854.4	861.1	853.6	844.4	822.7	824.4
32.5°	2300.4	1441.8	704.2	717.6	783.5	783.5	812.7	812.7	779.3	718.4	718.4
35°	2220.3	1283.3	645.8	678.4	721.7	735.9	776.0	723.4	675.9	648.3	646.7
37.5°	2157.7	1148.1	607.4	645.0	661.7	697.5	698.4	660.0	644.1	619.1	616.6
40°	2121.0	1034.6	584.1	628.3	630.0	663.3	608.3	619.1	615.8	596.6	594.1
42.5°	2101.0	947.0	566.6	614.1	605.8	573.2	563.2	581.6	587.4	577.4	573.2
45°	2085.1	878.6	552.4	564.9	586.6	527.3	523.2	537.3	549.9	549.0	545.7
47.5°	2076.8	831.1	539.8	534.0	538.2	499.8	491.5	498.1	514.0	524.0	523.2
50°	2044.3	794.3	521.5	502.3	475.6	475.6	471.4	471.4	490.6	510.6	512.3
52.5°	1986.7	751.0	494.8	472.3	441.4	454.7	456.4	453.1	473.1	494.8	496.5
55°	1923.3	718.4	458.9	444.7	413.0	435.6	443.1	439.7	453.1	468.1	467.3
57.5°	1924.1	717.6	428.0	417.2	386.3	411.4	429.7	430.5	429.7	440.6	440.6
60°	1972.5	734.3	403.8	380.5	355.4	385.5	415.5	415.5	409.7	425.5	427.2
62.5°	1986.7	732.6	388.8	345.4	327.9	362.1	394.7	399.7	395.5	418.0	420.5
65°	1861.5	693.4	373.8	313.7	302.9	336.3	368.8	383.0	378.8	408.0	411.4
67.5°	1688.0	642.5	350.4	285.4	277.0	311.2	342.1	357.1	356.3	394.7	396.3
70°	1455.2	579.9	321.2	256.2	252.0	282.0	309.6	325.4	332.9	377.1	376.3
72.5°	1127.3	497.3	277.0	225.3	224.5	252.0	276.2	293.7	307.9	350.4	350.4
75°	726.8	391.3	226.1	195.2	191.9	217.8	242.8	262.8	306.2	373.8	373.0
77.5°	443.9	298.7	181.9	162.7	161.9	185.2	210.3	244.5	334.6	332.9	323.7
80°	266.2	214.4	145.2	130.2	130.2	151.9	179.4	262.0	277.9	317.1	299.5
82.5°	138.5	131.8	108.5	96.0	100.1	119.3	163.5	209.4	227.0	192.7	176.9
85°	56.7	70.1	66.8	60.9	63.4	82.6	157.7	167.7	134.3	141.0	141.8
87.5°	19.2	30.9	30.9	24.2	26.7	58.4	93.5	55.9	67.6	40.1	30.0
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)