

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: P671953

Luminaire Tested: **CCP-SA-2D-730-U-AFL**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671953  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2D-730-U-AFL  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ AFL distribution lens  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

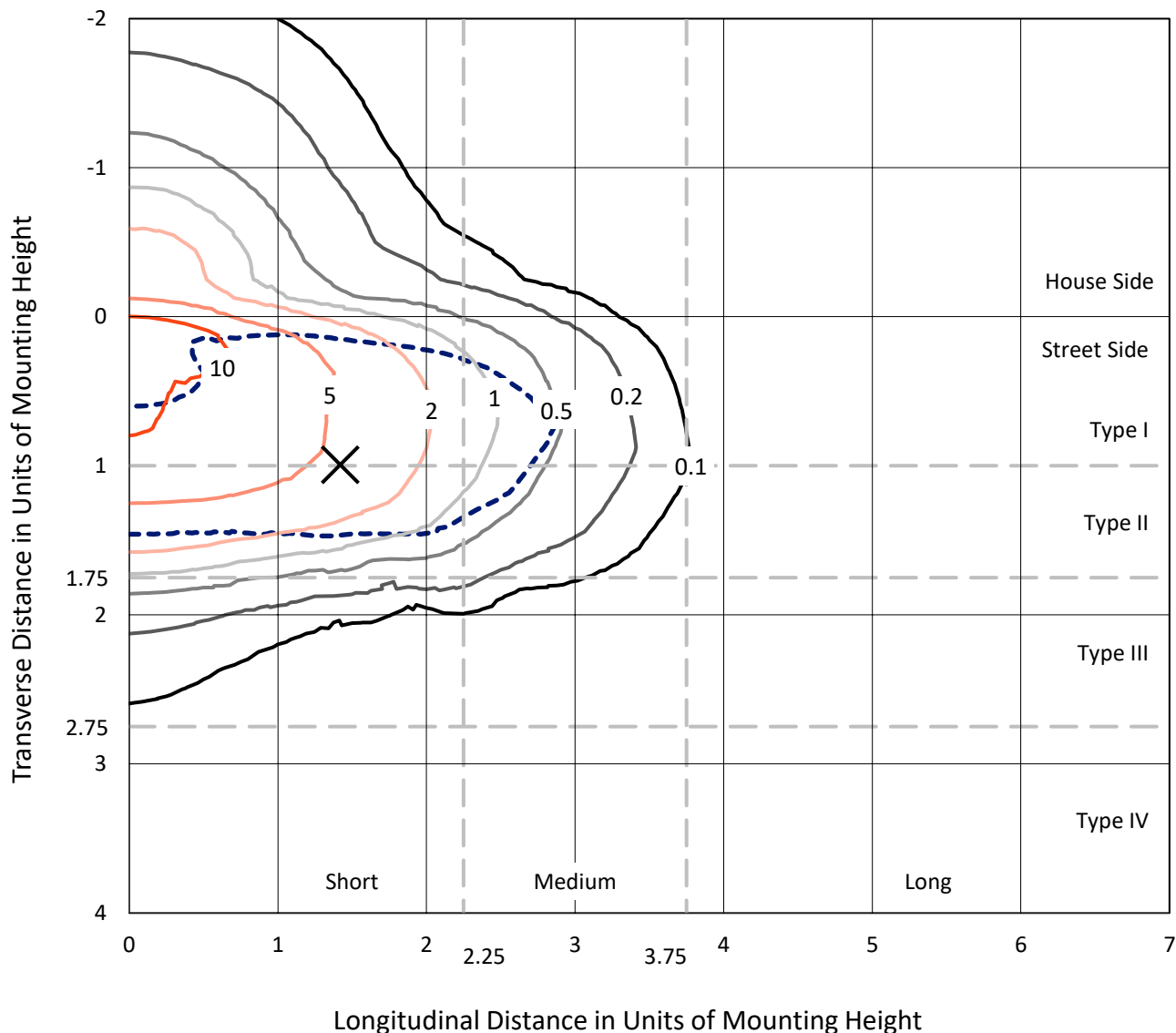
Lumens per Lamp: N/A  
Luminaire Lumens: 10248.7 lumens  
Efficiency: N/A  
Efficacy: 126.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

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

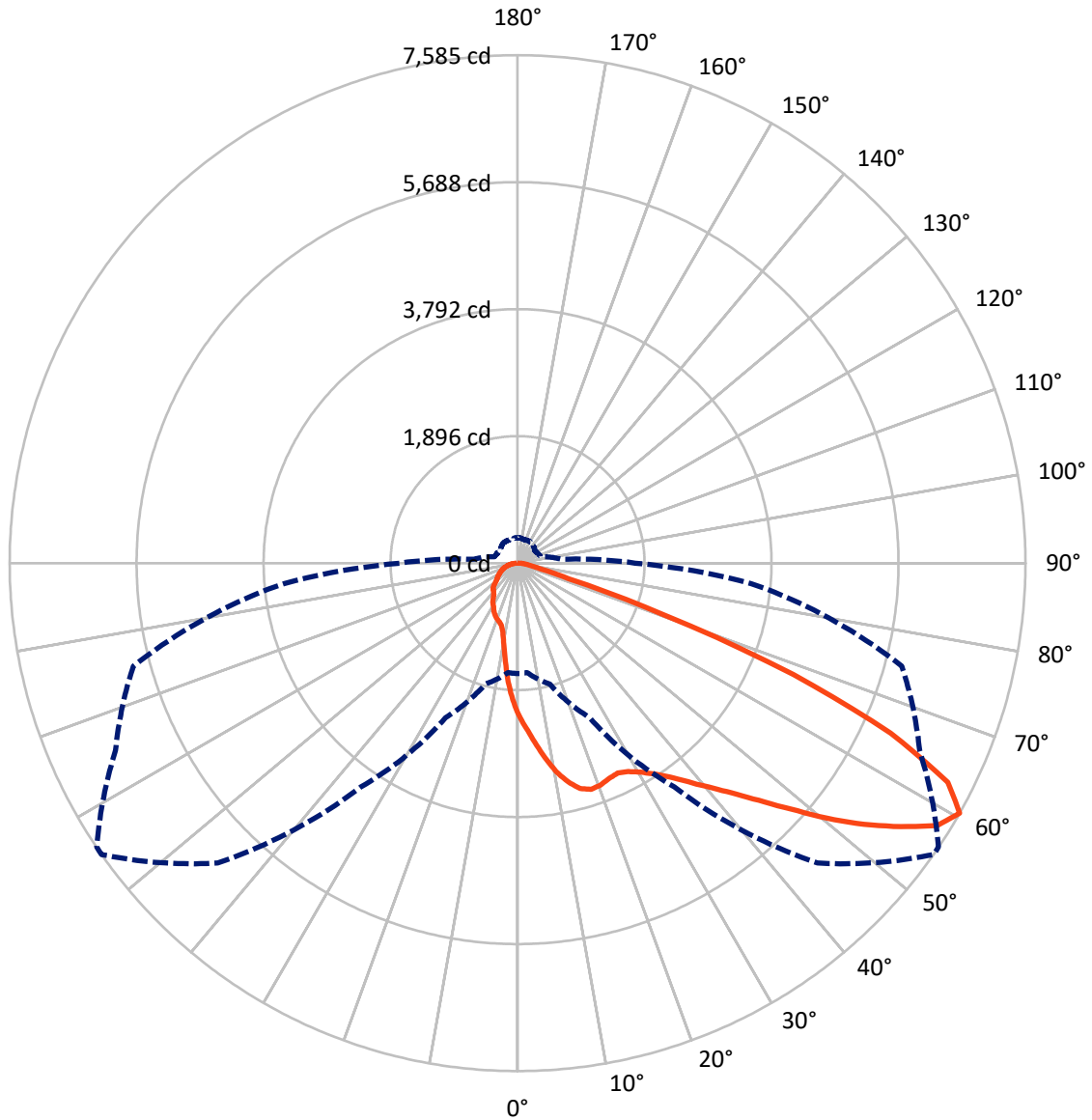
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 14.2 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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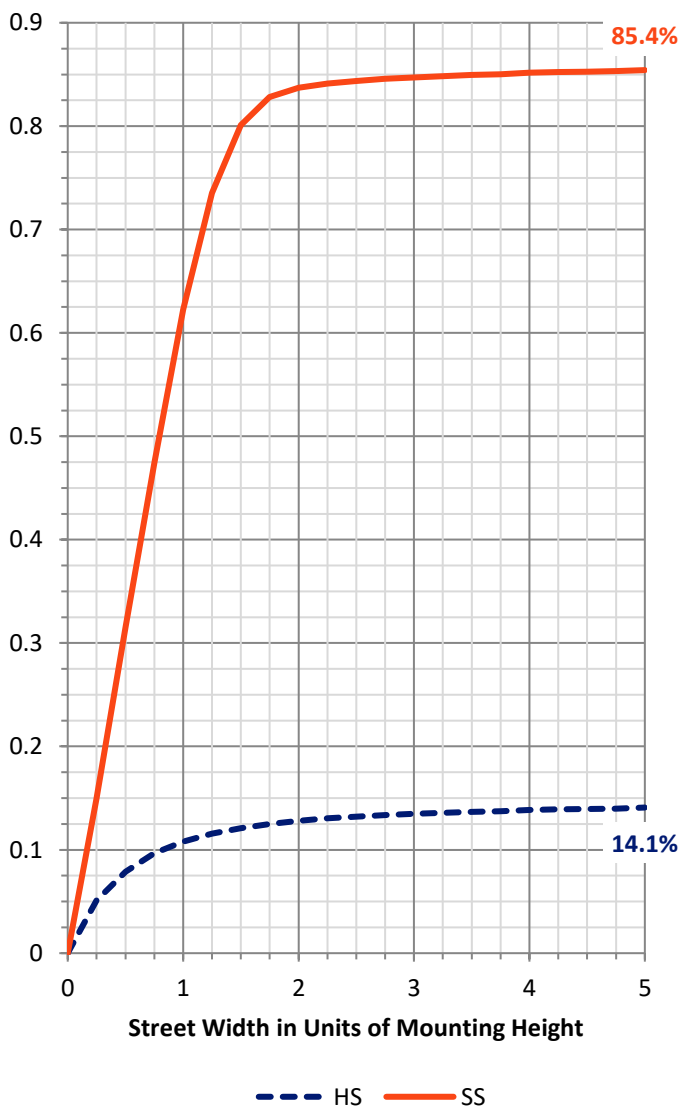
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1473.3	0.0	1473.3
	% Fixture	14.4	0.0	14.4
<b>Street Side</b>	Lumens	8775.4	0.0	8775.4
	% Fixture	85.6	0.0	85.6
<b>Total</b>	Lumens	10248.7	0.0	10248.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.7	2.1
10°-20°	602.6	5.9
20°-30°	981.2	9.6
30°-40°	1466.5	14.3
40°-50°	2155.4	21.0
50°-60°	2526.3	24.6
60°-70°	1665.7	16.3
70°-80°	530.4	5.2
80°-90°	107.8	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°	10248.7	100.0
0°-180°	10248.7	100.0



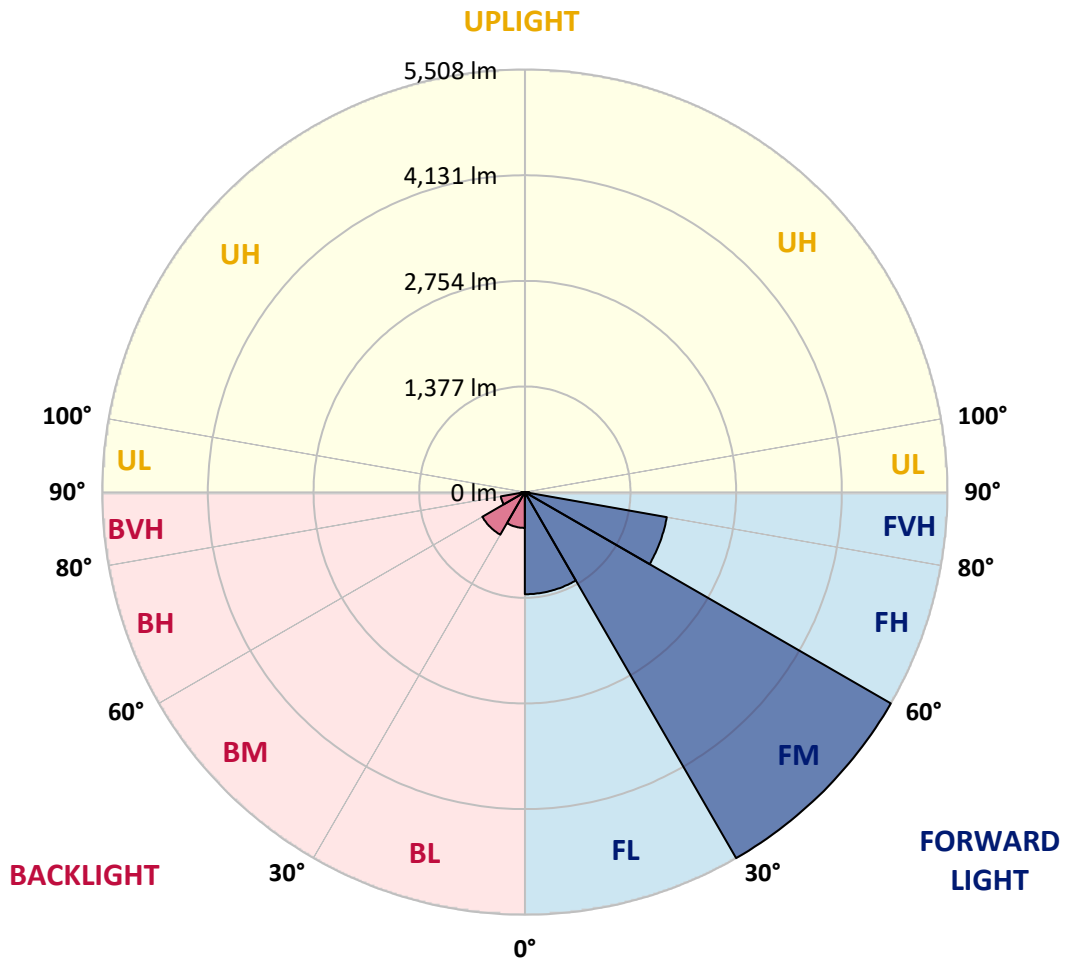
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1330.2	13.0			
FM	(30°-60°)	5507.9	53.7			
FH	(60°-80°)	1878.2	18.3			G2/5000
FVH	(80°-90°)	59.1	0.6			G1/100
BL	(0°-30°)	466.4	4.6	B1/500		
BM	(30°-60°)	640.3	6.2	B1/1000		
BH	(60°-80°)	317.9	3.1	B1/500		G1/500
BVH	(80°-90°)	48.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2272.9	2272.9	2272.9	2272.9	2272.9	2272.9	2272.9	2272.9	2272.9	2272.9	2272.9
2.5°	2645.1	2635.4	2635.4	2610.9	2574.5	2524.0	2463.8	2449.0	2425.9	2367.3	2291.5
5°	3048.4	3038.0	3023.9	2980.8	2913.2	2812.2	2685.2	2662.1	2579.7	2458.6	2321.9
7.5°	3315.1	3309.1	3304.7	3267.5	3200.7	3101.1	2931.0	2905.0	2765.4	2564.8	2350.9
10°	3287.6	3305.4	3336.6	3362.6	3376.0	3324.7	3165.0	3134.6	2961.5	2688.1	2394.0
12.5°	3029.8	3055.1	3113.0	3219.2	3341.8	3440.6	3350.0	3332.9	3171.0	2818.9	2448.2
15°	2838.2	2848.6	2876.8	2955.5	3138.3	3402.0	3493.3	3477.7	3366.3	2986.7	2510.6
17.5°	2778.8	2783.2	2789.9	2815.9	2940.7	3251.2	3552.0	3566.9	3555.7	3161.3	2581.2
20°	2808.5	2811.4	2812.2	2816.6	2876.1	3124.9	3536.4	3561.7	3722.1	3335.8	2651.0
22.5°	2922.9	2919.1	2913.9	2896.9	2930.3	3102.6	3494.8	3534.9	3850.6	3494.8	2715.6
25°	3122.7	3117.5	3081.1	3045.4	3059.5	3182.8	3472.5	3515.6	3950.9	3644.8	2763.2
27.5°	3360.4	3355.2	3318.0	3250.4	3235.6	3316.5	3524.5	3551.3	4024.4	3777.8	2784.0
30°	3607.0	3607.0	3560.9	3482.9	3435.4	3469.5	3620.3	3641.9	4080.1	3906.3	2797.3
32.5°	3875.9	3883.3	3812.0	3722.8	3670.1	3650.0	3754.8	3773.3	4161.1	4057.8	2825.6
35°	4221.2	4204.9	4118.0	4000.6	3916.0	3870.7	3921.2	3942.7	4279.9	4246.5	2870.9
37.5°	4609.7	4580.8	4473.8	4333.4	4185.6	4109.8	4143.3	4148.5	4456.0	4492.4	2953.3
40°	4930.6	4925.4	4834.8	4701.8	4515.4	4413.6	4397.3	4400.3	4700.3	4783.5	3078.1
42.5°	5201.0	5181.7	5165.3	5118.5	4921.0	4753.8	4687.0	4687.7	4965.5	5084.4	3203.6
45°	5320.6	5316.9	5365.1	5485.5	5343.6	5146.8	5051.7	5065.1	5269.3	5393.4	3324.7
47.5°	5269.3	5272.3	5401.5	5717.2	5801.2	5650.4	5481.8	5473.6	5563.5	5630.3	3431.7
50°	4811.8	4860.0	5209.9	5738.8	6101.2	6176.3	5986.1	5955.7	5821.2	5819.0	3497.0
52.5°	4466.4	4464.1	4678.8	5519.6	6207.5	6650.9	6480.1	6411.7	6034.4	5925.2	3502.2
55°	3999.9	3996.9	4156.6	4878.6	5996.5	6982.2	6945.8	6860.4	6229.7	5960.1	3466.6
57.5°	3029.1	3085.5	3244.5	3905.6	5328.0	6929.4	7390.7	7319.4	6420.6	5944.5	3459.9
60°	1648.2	1641.6	1871.8	2545.5	4079.4	6330.8	7584.6	7580.9	6623.4	5938.6	3500.7
62.5°	759.9	752.4	798.5	1133.5	2339.0	5071.7	7210.2	7263.7	6811.3	5884.3	3497.0
65°	568.2	548.9	486.5	527.4	895.1	3027.6	6124.3	6266.9	6521.7	5661.5	3335.1
67.5°	506.6	488.0	415.2	389.2	449.4	1068.1	4442.6	4574.1	5453.5	5244.1	3072.9
70°	464.2	447.9	375.1	334.3	337.2	473.2	2325.7	2584.1	3996.9	4376.5	2619.1
72.5°	423.4	409.3	343.2	294.1	283.7	312.7	792.6	956.0	2486.1	3189.5	1952.8
75°	380.3	366.9	309.0	263.7	243.6	231.7	377.3	406.3	1314.7	1761.1	1048.1
77.5°	330.5	323.1	275.6	232.5	215.4	175.3	251.1	263.7	563.0	691.5	499.2
80°	287.5	281.5	245.9	211.0	193.1	135.2	173.1	182.0	277.8	345.4	279.3
82.5°	187.2	202.0	203.5	181.2	170.1	108.4	114.4	121.1	184.2	203.5	121.8
85°	77.2	93.6	140.4	124.8	118.1	92.1	75.8	77.2	112.9	118.8	43.8
87.5°	34.9	38.6	69.1	69.8	60.9	34.9	37.9	41.6	57.9	57.2	19.3
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°	2272.9	2272.9	2272.9	2272.9	2272.9	2272.9	2272.9	2272.9	2272.9	2272.9	2272.9
2.5°	2270.7	2236.5	2175.6	2097.6	2041.9	2001.1	1956.5	1923.8	1887.4	1855.5	1860.7
5°	2265.5	2199.4	2062.7	1917.9	1776.7	1660.9	1564.3	1493.0	1419.5	1390.5	1386.8
7.5°	2270.0	2157.8	1933.5	1696.5	1481.9	1334.0	1221.9	1154.3	1111.9	1087.4	1088.9
10°	2268.5	2118.4	1793.8	1467.0	1232.3	1097.1	1028.8	1006.5	1002.8	1005.7	1010.2
12.5°	2270.7	2064.9	1637.1	1260.5	1053.3	984.2	987.2	1007.2	1019.8	1028.0	1033.2
15°	2280.4	2021.1	1476.7	1097.8	959.7	961.9	993.8	1025.0	1043.6	1052.5	1057.0
17.5°	2294.5	1966.2	1334.0	974.5	920.3	954.5	996.1	1029.5	1043.6	1048.8	1052.5
20°	2295.9	1903.0	1189.9	889.9	894.3	938.9	975.3	1002.0	1019.8	1025.8	1028.8
22.5°	2289.3	1817.6	1042.1	828.2	864.6	909.2	940.4	970.8	947.1	927.7	922.5
25°	2261.0	1709.9	915.9	777.7	827.5	869.1	904.7	871.3	860.1	845.3	846.8
27.5°	2200.1	1575.4	797.0	730.2	783.6	843.1	817.1	812.6	798.5	783.6	783.6
30°	2119.9	1433.6	697.5	680.4	730.9	760.6	766.6	759.9	751.7	732.4	733.9
32.5°	2047.9	1283.5	626.9	638.8	697.5	697.5	723.5	723.5	693.8	639.5	639.5
35°	1976.6	1142.4	574.9	603.9	642.5	655.1	690.8	644.0	601.7	577.1	575.7
37.5°	1920.8	1022.1	540.7	574.2	589.0	621.0	621.7	587.5	573.4	551.1	548.9
40°	1888.2	921.1	519.9	559.3	560.8	590.5	541.5	551.1	548.2	531.1	528.9
42.5°	1870.3	843.1	504.4	546.7	539.3	510.3	501.4	517.7	522.9	514.0	510.3
45°	1856.2	782.2	491.7	502.9	522.2	469.4	465.7	478.4	489.5	488.8	485.8
47.5°	1848.8	739.8	480.6	475.4	479.1	444.9	437.5	443.4	457.6	466.5	465.7
50°	1819.8	707.1	464.2	447.2	423.4	423.4	419.7	419.7	436.8	454.6	456.1
52.5°	1768.6	668.5	440.5	420.4	392.9	404.8	406.3	403.3	421.2	440.5	442.0
55°	1712.1	639.5	408.5	395.9	367.7	387.7	394.4	391.4	403.3	416.7	416.0
57.5°	1712.9	638.8	381.0	371.4	343.9	366.2	382.5	383.3	382.5	392.2	392.2
60°	1755.9	653.7	359.5	338.7	316.4	343.2	369.9	369.9	364.7	378.8	380.3
62.5°	1768.6	652.2	346.1	307.5	291.9	322.4	351.3	355.8	352.1	372.1	374.4
65°	1657.2	617.3	332.8	279.3	269.6	299.3	328.3	340.9	337.2	363.2	366.2
67.5°	1502.7	571.9	312.0	254.0	246.6	277.1	304.5	317.9	317.2	351.3	352.8
70°	1295.4	516.2	286.0	228.0	224.3	251.1	275.6	289.7	296.4	335.7	335.0
72.5°	1003.5	442.7	246.6	200.6	199.8	224.3	245.9	261.5	274.1	312.0	312.0
75°	647.0	348.4	201.3	173.8	170.8	193.9	216.2	234.0	272.6	332.8	332.0
77.5°	395.2	265.9	161.9	144.8	144.1	164.9	187.2	217.6	297.9	296.4	288.2
80°	236.9	190.9	129.2	115.9	115.9	135.2	159.7	233.2	247.3	282.3	266.7
82.5°	123.3	117.4	96.6	85.4	89.1	106.2	145.6	186.4	202.0	171.6	157.5
85°	50.5	62.4	59.4	54.2	56.5	73.5	140.4	149.3	119.6	125.5	126.3
87.5°	17.1	27.5	27.5	21.5	23.8	52.0	83.2	49.8	60.2	35.7	26.7
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)