

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: P672031

Luminaire Tested: **CCP-SA-2E-835-U-AFL**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672031  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2E-835-U-AFL  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ AFL distribution lens  
Light Source: (32) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

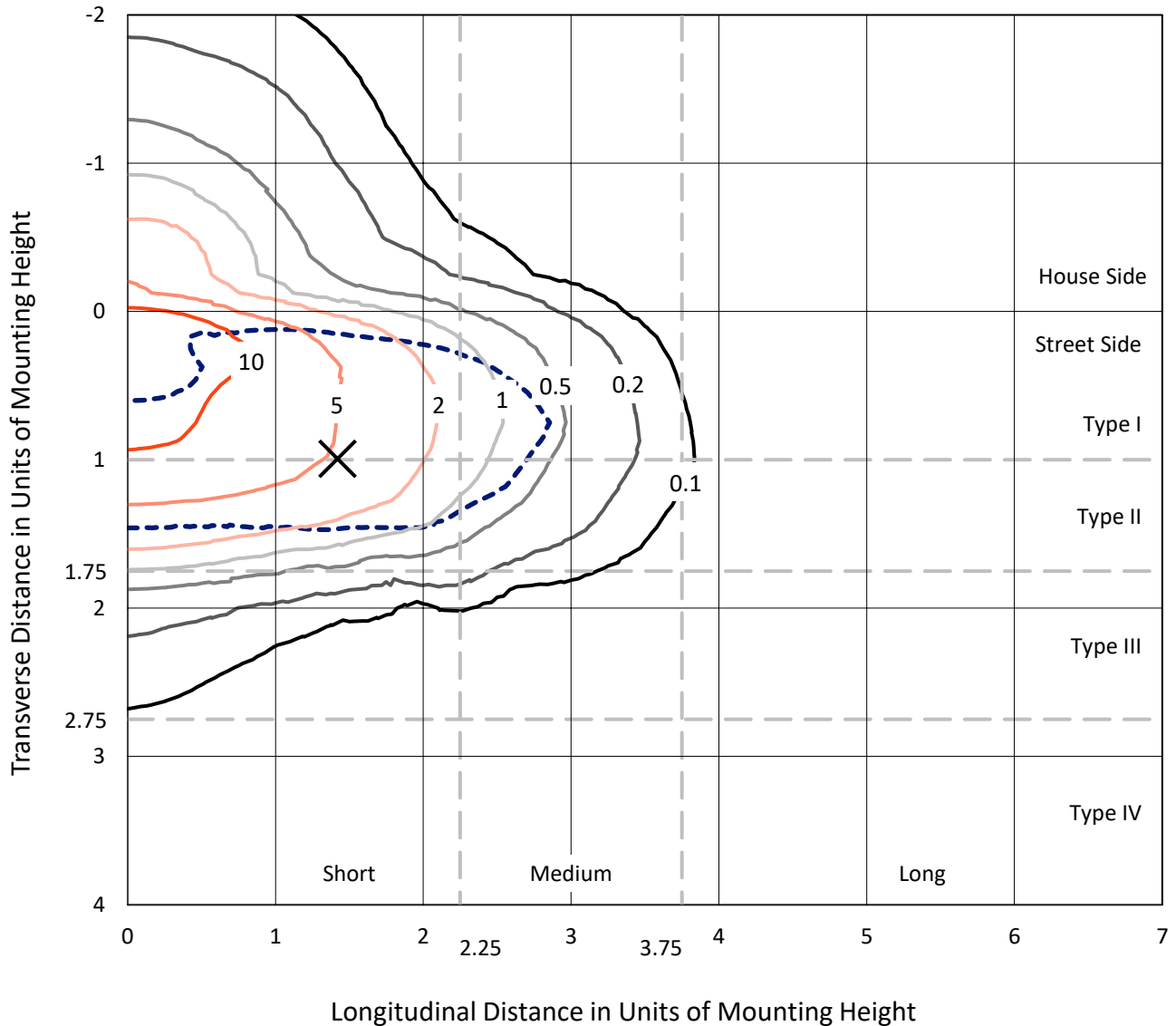
Lumens per Lamp: N/A  
Luminaire Lumens: 11369.7 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 106.6  
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

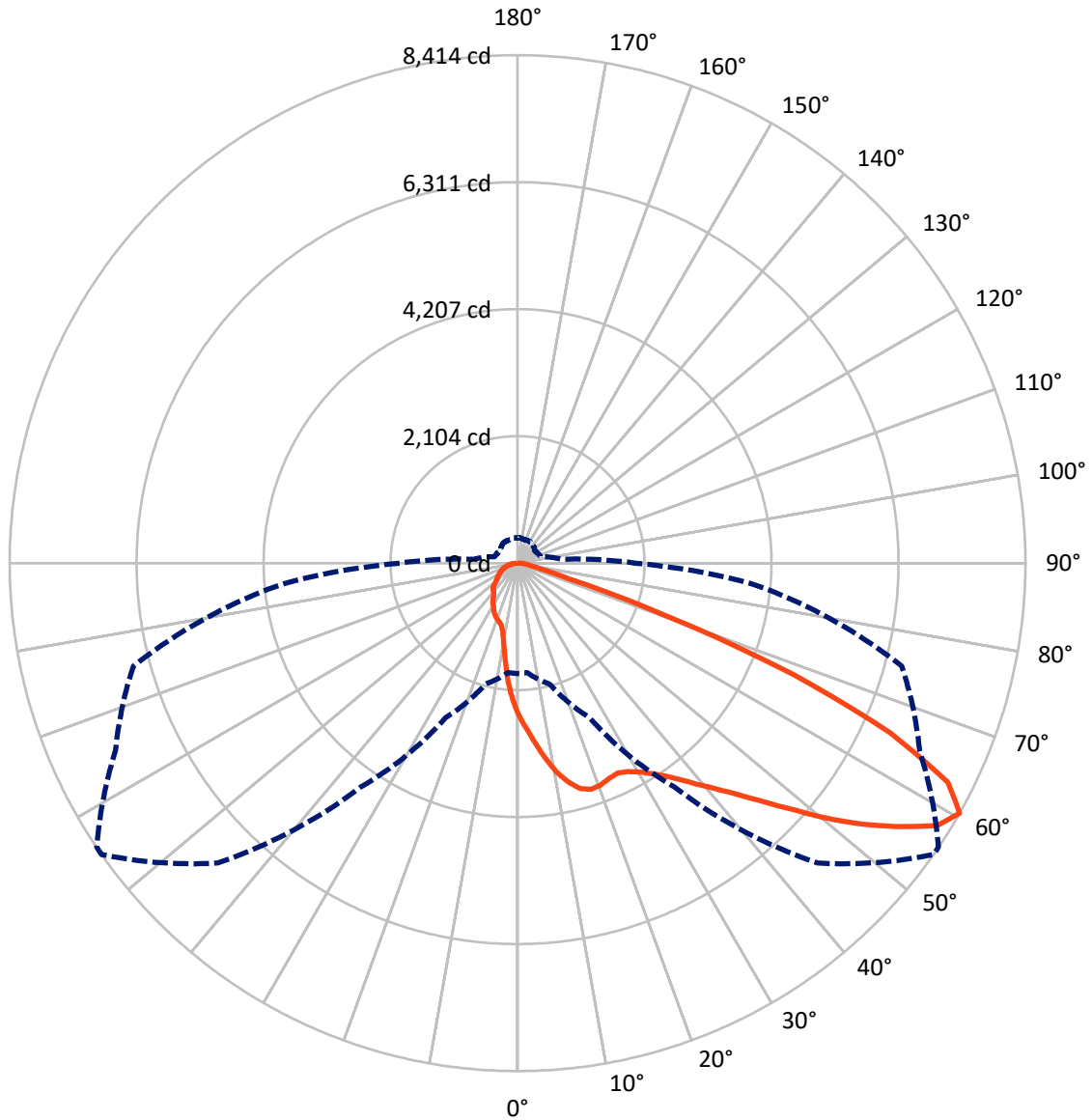
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 15.8 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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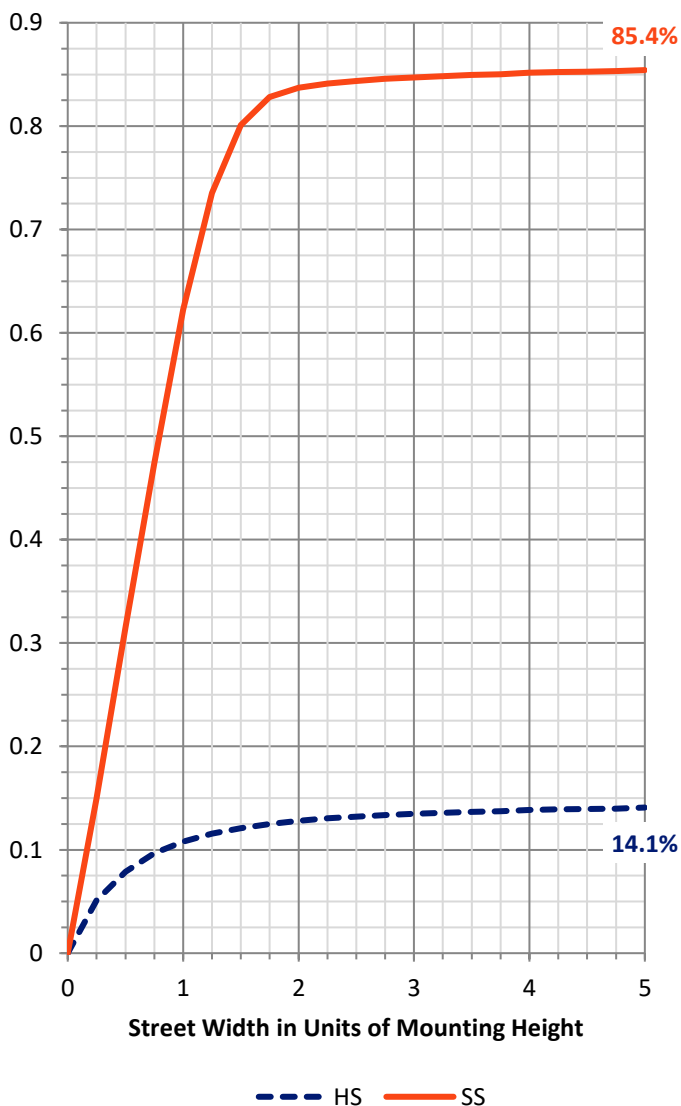
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1634.4	0.0	1634.4
	% Fixture	14.4	0.0	14.4
<b>Street Side</b>	Lumens	9735.3	0.0	9735.3
	% Fixture	85.6	0.0	85.6
<b>Total</b>	Lumens	11369.7	0.0	11369.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.0	2.1
10°-20°	668.5	5.9
20°-30°	1088.5	9.6
30°-40°	1626.9	14.3
40°-50°	2391.2	21.0
50°-60°	2802.6	24.6
60°-70°	1847.9	16.3
70°-80°	588.4	5.2
80°-90°	119.6	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°	11369.7	100.0
0°-180°	11369.7	100.0



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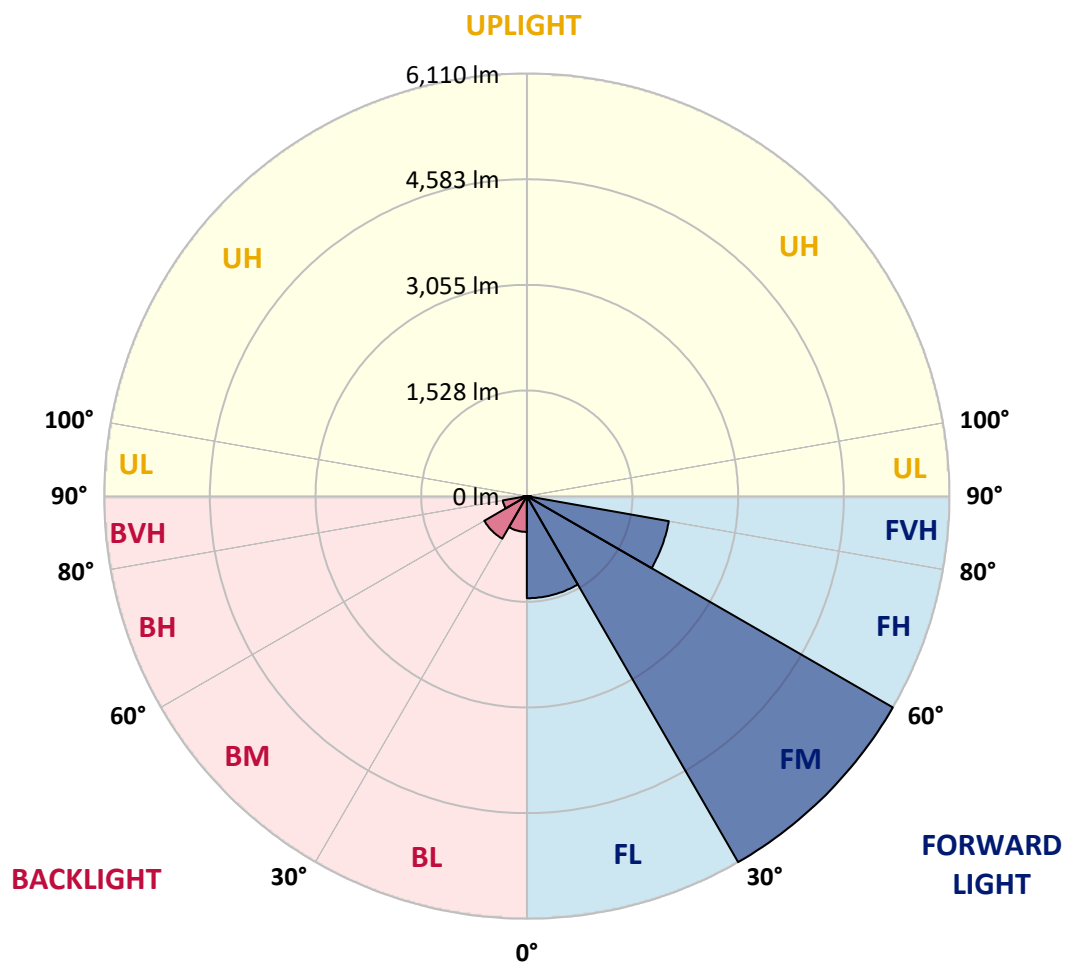
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1475.7	13.0			
FM (30°-60°)	6110.4	53.7			
FH (60°-80°)	2083.6	18.3			G2/5000
FVH (80°-90°)	65.6	0.6			G1/100
BL (0°-30°)	517.4	4.6	B2/1000		
BM (30°-60°)	710.4	6.2	B1/1000		
BH (60°-80°)	352.7	3.1	B1/500		G1/500
BVH (80°-90°)	54.0	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°	2521.5	2521.5	2521.5	2521.5	2521.5	2521.5	2521.5	2521.5	2521.5	2521.5	2521.5
2.5°	2934.4	2923.7	2923.7	2896.5	2856.1	2800.1	2733.3	2716.8	2691.3	2626.2	2542.1
5°	3381.8	3370.3	3354.6	3306.9	3231.9	3119.8	2978.9	2953.3	2861.9	2727.6	2575.9
7.5°	3677.7	3671.1	3666.1	3624.9	3550.8	3440.3	3251.6	3222.8	3067.9	2845.4	2608.1
10°	3647.2	3667.0	3701.6	3730.4	3745.2	3688.4	3511.2	3477.4	3285.4	2982.2	2655.9
12.5°	3361.2	3389.3	3453.5	3571.4	3707.3	3816.9	3716.4	3697.4	3517.8	3127.2	2716.0
15°	3148.6	3160.2	3191.5	3278.8	3481.5	3774.1	3875.4	3858.1	3734.5	3313.4	2785.2
17.5°	3082.7	3087.7	3095.1	3123.9	3262.4	3606.8	3940.5	3957.0	3944.7	3507.1	2863.5
20°	3115.7	3119.0	3119.8	3124.7	3190.7	3466.7	3923.2	3951.2	4129.2	3700.7	2941.0
22.5°	3242.6	3238.5	3232.7	3213.7	3250.8	3442.0	3877.1	3921.6	4271.8	3877.1	3012.7
25°	3464.2	3458.5	3418.1	3378.5	3394.2	3531.0	3852.4	3900.2	4383.0	4043.5	3065.4
27.5°	3727.9	3722.2	3681.0	3606.0	3589.5	3679.3	3910.0	3939.7	4464.6	4191.0	3088.5
30°	4001.5	4001.5	3950.4	3863.9	3811.2	3849.1	4016.3	4040.2	4526.4	4333.6	3103.3
32.5°	4299.8	4308.1	4228.9	4130.1	4071.6	4049.3	4165.5	4186.1	4616.2	4501.7	3134.6
35°	4683.0	4664.9	4568.4	4438.2	4344.3	4294.0	4350.1	4374.0	4748.1	4711.0	3184.9
37.5°	5114.0	5081.8	4963.2	4807.4	4643.4	4559.4	4596.5	4602.2	4943.4	4983.8	3276.4
40°	5469.9	5464.2	5363.6	5216.1	5009.3	4896.4	4878.3	4881.6	5214.5	5306.8	3414.8
42.5°	5769.9	5748.5	5730.3	5678.4	5459.2	5273.8	5199.7	5200.5	5508.7	5640.5	3554.1
45°	5902.6	5898.4	5952.0	6085.5	5928.1	5709.7	5604.3	5619.1	5845.7	5983.3	3688.4
47.5°	5845.7	5849.0	5992.4	6342.6	6435.7	6268.4	6081.4	6072.3	6172.0	6246.2	3807.0
50°	5338.1	5391.7	5779.8	6366.5	6768.6	6851.8	6640.9	6607.1	6458.0	6455.5	3879.6
52.5°	4954.9	4952.4	5190.6	6123.4	6886.5	7378.4	7188.9	7113.1	6694.5	6573.3	3885.3
55°	4437.4	4434.1	4611.3	5412.3	6652.4	7745.9	7705.5	7610.8	6911.2	6612.1	3845.8
57.5°	3360.4	3423.0	3599.4	4332.8	5910.8	7687.4	8199.1	8120.0	7123.0	6594.7	3838.4
60°	1828.5	1821.1	2076.6	2824.0	4525.6	7023.2	8414.2	8410.1	7347.9	6588.2	3883.7
62.5°	843.0	834.7	885.8	1257.5	2594.9	5626.5	7998.9	8058.2	7556.4	6528.0	3879.6
65°	630.4	609.0	539.7	585.1	993.0	3358.8	6794.2	6952.4	7235.0	6280.8	3699.9
67.5°	562.0	541.4	460.6	431.8	498.5	1185.0	4928.5	5074.4	6050.1	5817.7	3409.0
70°	515.0	496.9	416.1	370.8	374.1	524.9	2580.1	2866.8	4434.1	4855.2	2905.5
72.5°	469.7	454.0	380.7	326.3	314.8	346.9	879.2	1060.5	2758.0	3538.4	2166.4
75°	421.9	407.1	342.8	292.5	270.3	257.1	418.6	450.7	1458.5	1953.8	1162.7
77.5°	366.7	358.5	305.7	257.9	239.0	194.5	278.5	292.5	624.6	767.2	553.8
80°	318.9	312.3	272.8	234.0	214.2	150.0	192.0	201.9	308.2	383.2	309.8
82.5°	207.7	224.1	225.8	201.1	188.7	120.3	126.9	134.3	204.4	225.8	135.1
85°	85.7	103.8	155.7	138.4	131.0	102.2	84.1	85.7	125.3	131.8	48.6
87.5°	38.7	42.8	76.6	77.5	67.6	38.7	42.0	46.1	64.3	63.5	21.4
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°	2521.5	2521.5	2521.5	2521.5	2521.5	2521.5	2521.5	2521.5	2521.5	2521.5	2521.5
2.5°	2519.1	2481.2	2413.6	2327.1	2265.3	2219.9	2170.5	2134.2	2093.9	2058.4	2064.2
5°	2513.3	2440.0	2288.3	2127.7	1971.1	1842.5	1735.4	1656.3	1574.7	1542.6	1538.5
7.5°	2518.2	2393.8	2145.0	1882.1	1643.9	1480.0	1355.5	1280.5	1233.6	1206.4	1208.0
10°	2516.6	2350.1	1990.0	1627.5	1367.1	1217.1	1141.3	1116.6	1112.4	1115.7	1120.7
12.5°	2519.1	2290.8	1816.2	1398.4	1168.5	1091.8	1095.1	1117.4	1131.4	1140.5	1146.2
15°	2529.8	2242.2	1638.2	1217.9	1064.7	1067.1	1102.6	1137.2	1157.8	1167.7	1172.6
17.5°	2545.4	2181.2	1480.0	1081.1	1021.0	1058.9	1105.0	1142.1	1157.8	1163.5	1167.7
20°	2547.1	2111.2	1320.1	987.2	992.1	1041.6	1082.0	1111.6	1131.4	1138.0	1141.3
22.5°	2539.7	2016.4	1156.1	918.8	959.2	1008.6	1043.2	1077.0	1050.6	1029.2	1023.5
25°	2508.4	1896.9	1016.0	862.8	918.0	964.1	1003.7	966.6	954.2	937.8	939.4
27.5°	2440.8	1747.8	884.2	810.0	869.4	935.3	906.4	901.5	885.8	869.4	869.4
30°	2351.8	1590.4	773.8	754.8	810.8	843.8	850.4	843.0	833.9	812.5	814.1
32.5°	2271.9	1423.9	695.5	708.7	773.8	773.8	802.6	802.6	769.6	709.5	709.5
35°	2192.8	1267.4	637.8	669.9	712.8	726.8	766.4	714.4	667.5	640.3	638.6
37.5°	2131.0	1133.9	599.9	637.0	653.5	688.9	689.7	651.8	636.2	611.4	609.0
40°	2094.7	1021.8	576.8	620.5	622.1	655.1	600.7	611.4	608.1	589.2	586.7
42.5°	2074.9	935.3	559.5	606.5	598.2	566.1	556.2	574.4	580.1	570.2	566.1
45°	2059.3	867.7	545.5	557.9	579.3	520.8	516.7	530.7	543.0	542.2	538.9
47.5°	2051.0	820.7	533.2	527.4	531.5	493.6	485.4	491.9	507.6	517.5	516.7
50°	2018.9	784.5	515.0	496.1	469.7	469.7	465.6	465.6	484.5	504.3	506.0
52.5°	1962.0	741.6	488.7	466.4	435.9	449.1	450.7	447.5	467.2	488.7	490.3
55°	1899.4	709.5	453.2	439.2	407.9	430.1	437.6	434.3	447.5	462.3	461.5
57.5°	1900.2	708.7	422.7	412.0	381.5	406.2	424.4	425.2	424.4	435.1	435.1
60°	1948.0	725.2	398.8	375.8	351.0	380.7	410.4	410.4	404.6	420.3	421.9
62.5°	1962.0	723.5	384.0	341.2	323.8	357.6	389.8	394.7	390.6	412.8	415.3
65°	1838.4	684.8	369.2	309.8	299.1	332.1	364.2	378.2	374.1	403.0	406.2
67.5°	1667.0	634.5	346.1	281.8	273.6	307.4	337.9	352.7	351.9	389.8	391.4
70°	1437.1	572.7	317.3	253.0	248.9	278.5	305.7	321.4	328.8	372.5	371.6
72.5°	1113.3	491.1	273.6	222.5	221.7	248.9	272.8	290.1	304.1	346.1	346.1
75°	717.7	386.5	223.3	192.8	189.5	215.1	239.8	259.6	302.4	369.2	368.3
77.5°	438.4	295.0	179.6	160.7	159.9	182.9	207.7	241.4	330.4	328.8	319.7
80°	262.9	211.8	143.4	128.5	128.5	150.0	177.2	258.7	274.4	313.1	295.8
82.5°	136.8	130.2	107.1	94.8	98.9	117.8	161.5	206.8	224.1	190.4	174.7
85°	56.0	69.2	65.9	60.2	62.6	81.6	155.7	165.6	132.7	139.3	140.1
87.5°	19.0	30.5	30.5	23.9	26.4	57.7	92.3	55.2	66.7	39.6	29.7
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)