

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: P671943

Luminaire Tested: **CCP-SA-2E-727-U-AFL**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671943  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2E-727-U-AFL  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ AFL distribution lens  
Light Source: (32) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

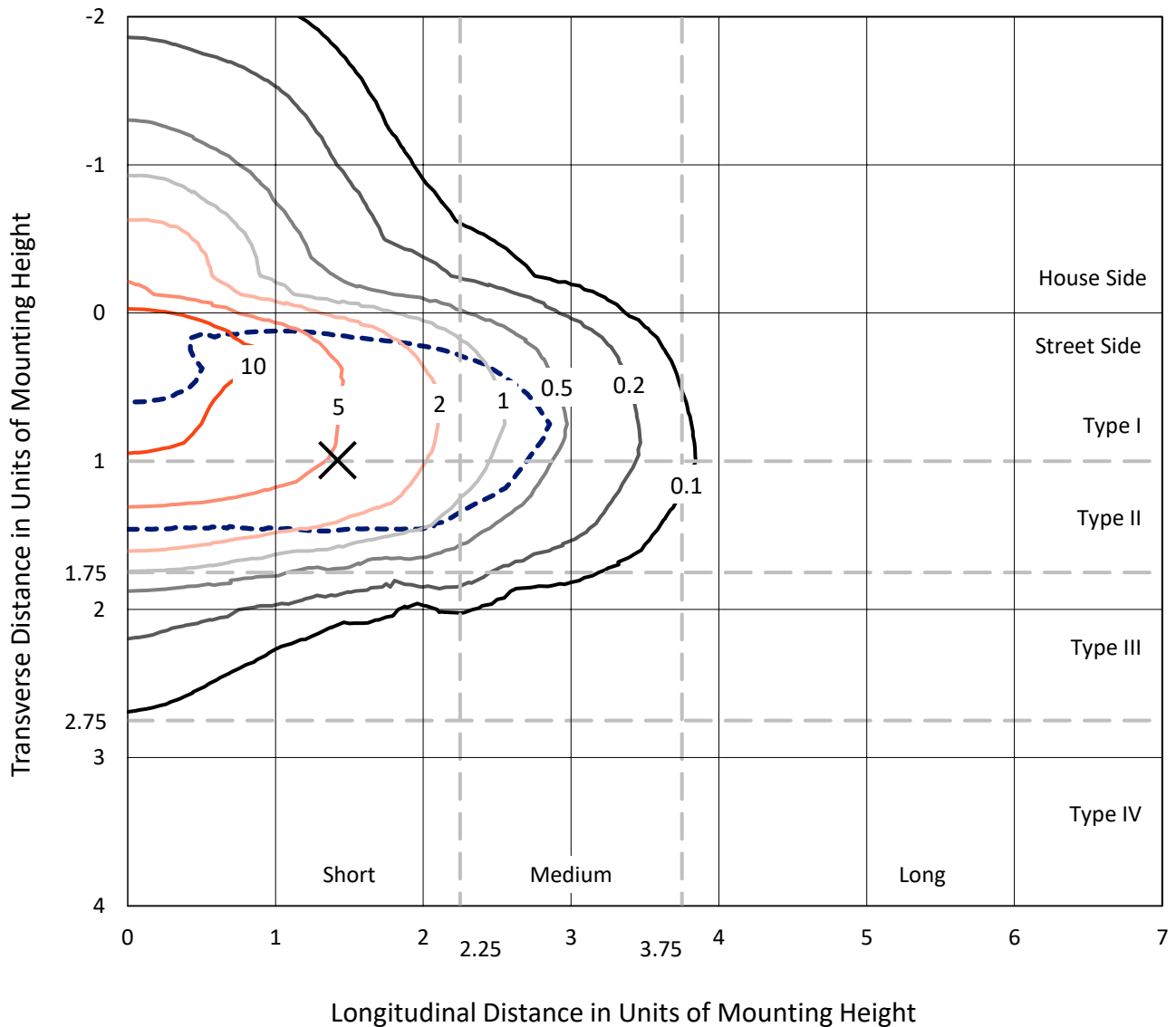
Lumens per Lamp: N/A  
Luminaire Lumens: 11539.4 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 106.6  
Input Voltage (V): 120  
Input Current (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

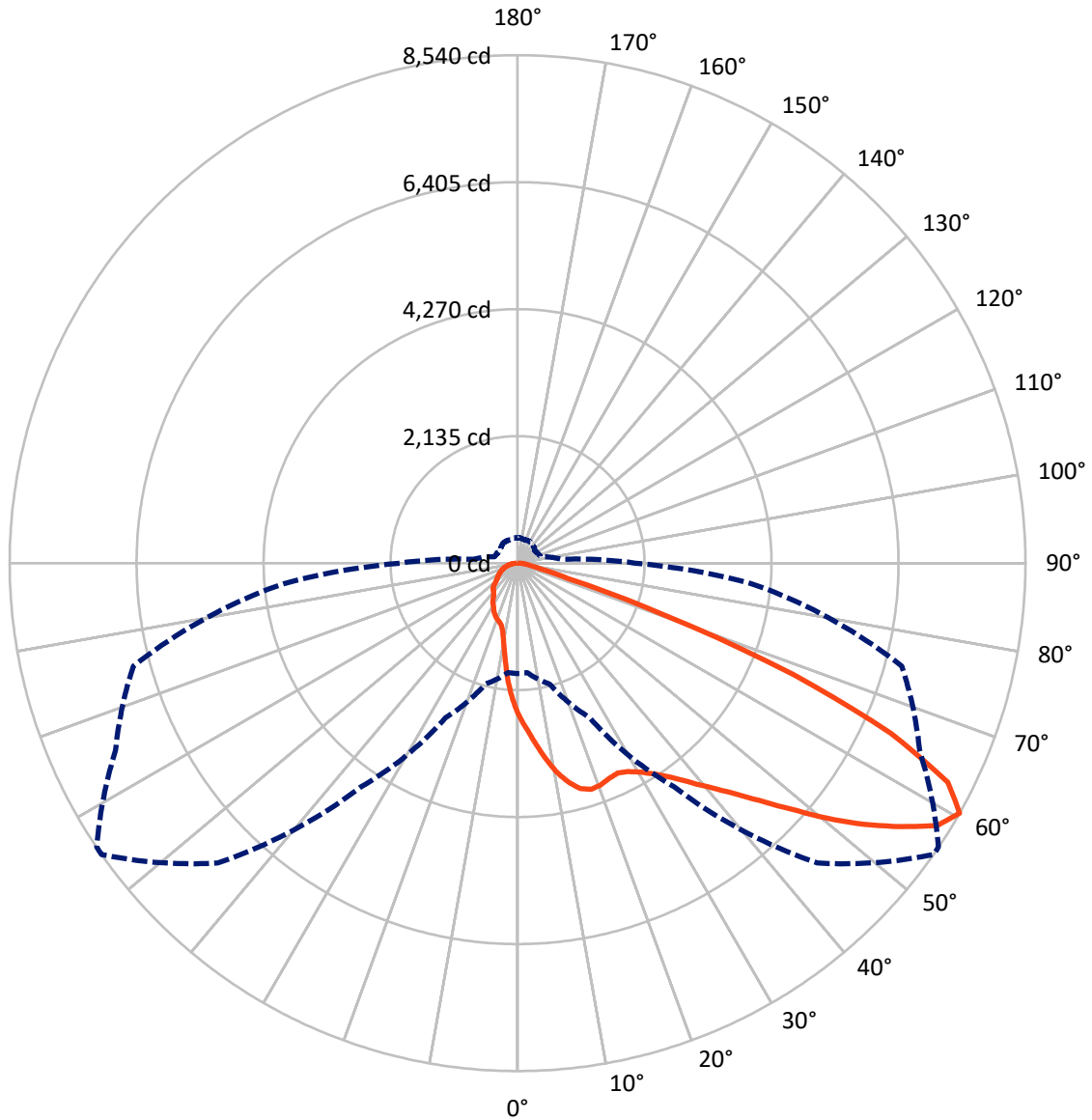
✕ Max cd  
 - - - 1/2 Max cd



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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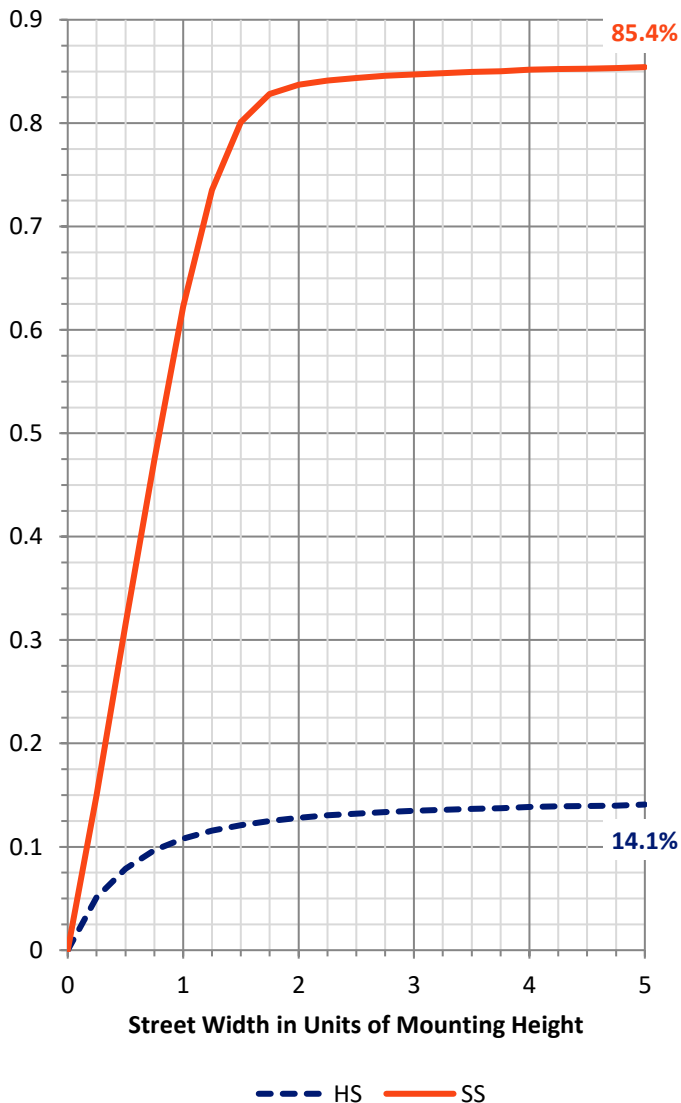
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1658.8	0.0	1658.8
	% Fixture	14.4	0.0	14.4
<b>Street Side</b>	Lumens	9880.6	0.0	9880.6
	% Fixture	85.6	0.0	85.6
<b>Total</b>	Lumens	11539.4	0.0	11539.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.5	2.1
10°-20°	678.5	5.9
20°-30°	1104.8	9.6
30°-40°	1651.2	14.3
40°-50°	2426.9	21.0
50°-60°	2844.4	24.6
60°-70°	1875.5	16.3
70°-80°	597.2	5.2
80°-90°	121.4	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°	11539.4	100.0
0°-180°	11539.4	100.0



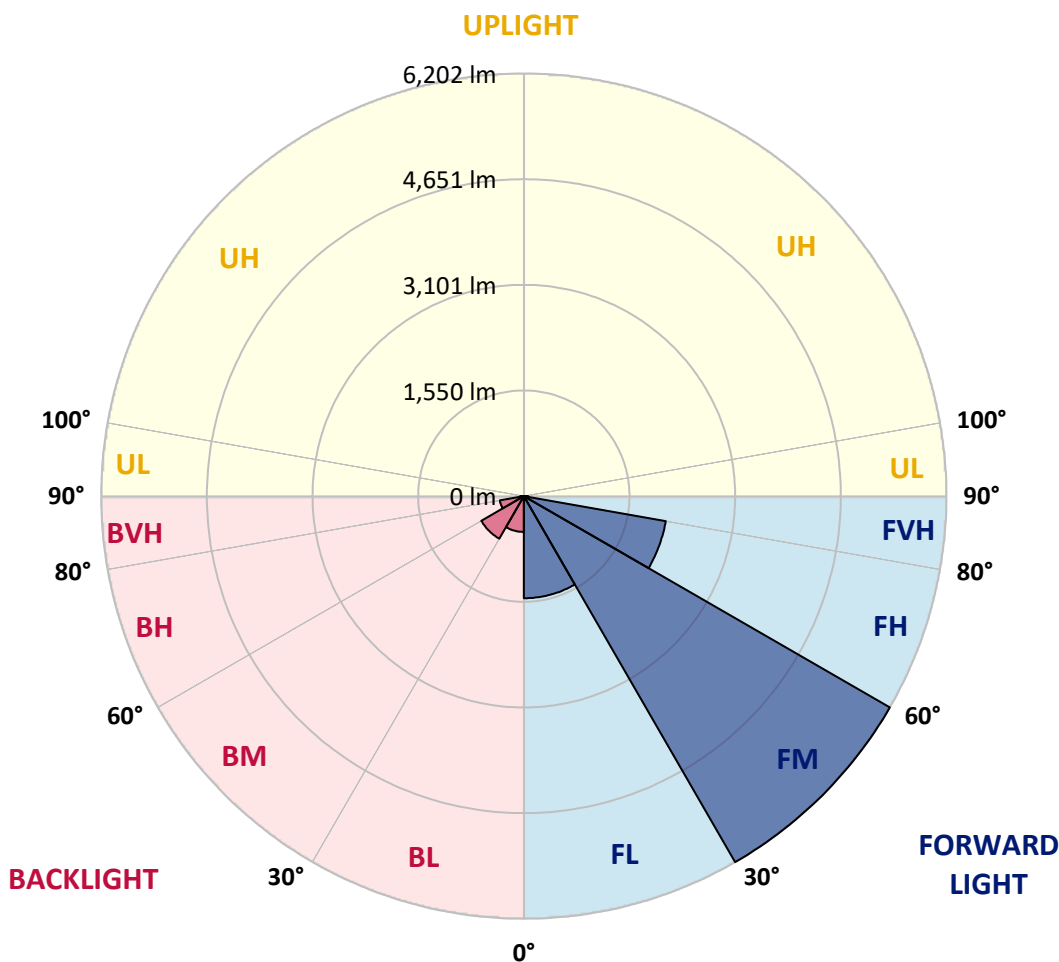
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1497.7	13.0			
FM (30°-60°)	6201.6	53.7			
FH (60°-80°)	2114.7	18.3			G2/5000
FVH (80°-90°)	66.6	0.6			G1/100
BL (0°-30°)	525.1	4.6	B2/1000		
BM (30°-60°)	721.0	6.2	B1/1000		
BH (60°-80°)	357.9	3.1	B1/500		G1/500
BVH (80°-90°)	54.8	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°	2559.2	2559.2	2559.2	2559.2	2559.2	2559.2	2559.2	2559.2	2559.2	2559.2	2559.2
2.5°	2978.2	2967.3	2967.3	2939.7	2898.7	2841.9	2774.1	2757.4	2731.5	2665.4	2580.1
5°	3432.3	3420.6	3404.7	3356.2	3280.1	3166.4	3023.4	2997.4	2904.6	2768.3	2614.4
7.5°	3732.6	3725.9	3720.9	3679.0	3603.8	3491.7	3300.2	3270.9	3113.7	2887.9	2647.0
10°	3701.6	3721.7	3756.8	3786.1	3801.1	3743.4	3563.6	3529.3	3334.5	3026.7	2695.5
12.5°	3411.4	3439.8	3505.1	3624.7	3762.7	3873.9	3771.9	3752.6	3570.3	3173.9	2756.6
15°	3195.6	3207.3	3239.1	3327.8	3533.5	3830.4	3933.3	3915.7	3790.3	3362.9	2826.8
17.5°	3128.7	3133.7	3141.3	3170.5	3311.0	3660.6	3999.4	4016.1	4003.5	3559.4	2906.3
20°	3162.2	3165.5	3166.4	3171.4	3238.3	3518.5	3981.8	4010.2	4190.9	3756.0	2984.9
22.5°	3291.0	3286.8	3280.9	3261.7	3299.3	3493.4	3935.0	3980.1	4335.6	3935.0	3057.6
25°	3516.0	3510.1	3469.1	3429.0	3444.9	3583.7	3909.9	3958.4	4448.5	4103.9	3111.2
27.5°	3783.6	3777.7	3735.9	3659.8	3643.1	3734.2	3968.4	3998.5	4531.3	4253.6	3134.6
30°	4061.2	4061.2	4009.4	3921.6	3868.0	3906.5	4076.3	4100.6	4594.0	4398.3	3149.6
32.5°	4364.0	4372.4	4292.1	4191.7	4132.3	4109.7	4227.7	4248.6	4685.1	4568.9	3181.4
35°	4752.9	4734.5	4636.6	4504.5	4409.2	4358.1	4415.0	4439.3	4819.0	4781.3	3232.4
37.5°	5190.3	5157.7	5037.2	4879.2	4712.7	4627.4	4665.1	4670.9	5017.2	5058.2	3325.3
40°	5551.6	5545.7	5443.7	5294.0	5084.1	4969.5	4951.1	4954.4	5292.3	5386.0	3465.8
42.5°	5856.0	5834.3	5815.9	5763.2	5540.7	5352.5	5277.3	5278.1	5590.9	5724.7	3607.1
45°	5990.7	5986.5	6040.8	6176.3	6016.6	5795.0	5687.9	5703.0	5933.0	6072.6	3743.4
47.5°	5933.0	5936.3	6081.8	6437.3	6531.8	6362.0	6172.2	6163.0	6264.1	6339.4	3863.9
50°	5417.8	5472.1	5866.1	6461.5	6869.7	6954.1	6740.0	6705.7	6554.4	6551.8	3937.5
52.5°	5028.9	5026.4	5268.1	6214.8	6989.3	7488.5	7296.2	7219.2	6794.4	6671.4	3943.3
55°	4503.7	4500.3	4680.1	5493.0	6751.7	7861.5	7820.6	7724.4	7014.3	6710.8	3903.2
57.5°	3410.6	3474.1	3653.1	4397.4	5999.0	7802.2	8321.5	8241.2	7229.3	6693.2	3895.6
60°	1855.8	1848.3	2107.6	2866.1	4593.2	7128.1	8539.8	8535.6	7457.6	6686.5	3941.6
62.5°	855.6	847.2	899.1	1276.2	2633.6	5710.5	8118.3	8178.5	7669.2	6625.4	3937.5
65°	639.8	618.1	547.8	593.8	1007.8	3408.9	6895.6	7056.2	7343.0	6374.5	3755.1
67.5°	570.4	549.5	467.5	438.2	506.0	1202.6	5002.1	5150.2	6140.4	5904.5	3459.9
70°	522.7	504.3	422.3	376.4	379.7	532.7	2618.6	2909.6	4500.3	4927.7	2948.9
72.5°	476.7	460.8	386.4	331.2	319.5	352.1	892.4	1076.4	2799.2	3591.2	2198.7
75°	428.2	413.1	347.9	296.9	274.3	260.9	424.9	457.5	1480.3	1983.0	1180.1
77.5°	372.2	363.8	310.3	261.8	242.5	197.4	282.7	296.9	633.9	778.6	562.0
80°	323.7	317.0	276.8	237.5	217.4	152.2	194.9	204.9	312.8	388.9	314.5
82.5°	210.8	227.5	229.2	204.1	191.5	122.1	128.8	136.3	207.4	229.2	137.2
85°	87.0	105.4	158.1	140.5	133.0	103.7	85.3	87.0	127.1	133.8	49.3
87.5°	39.3	43.5	77.8	78.6	68.6	39.3	42.7	46.8	65.2	64.4	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°	2559.2	2559.2	2559.2	2559.2	2559.2	2559.2	2559.2	2559.2	2559.2	2559.2	2559.2
2.5°	2556.7	2518.2	2449.6	2361.8	2299.1	2253.1	2202.9	2166.1	2125.1	2089.2	2095.0
5°	2550.8	2476.4	2322.5	2159.4	2000.5	1870.0	1761.3	1681.0	1598.2	1565.6	1561.4
7.5°	2555.8	2429.6	2177.0	1910.2	1668.5	1502.1	1375.8	1299.7	1252.0	1224.4	1226.1
10°	2554.2	2385.2	2019.7	1651.8	1387.5	1235.3	1158.3	1133.2	1129.1	1132.4	1137.4
12.5°	2556.7	2325.0	1843.3	1419.3	1185.9	1108.1	1111.5	1134.1	1148.3	1157.5	1163.3
15°	2567.5	2275.7	1662.6	1236.1	1080.5	1083.1	1119.0	1154.1	1175.1	1185.1	1190.1
17.5°	2583.4	2213.8	1502.1	1097.3	1036.2	1074.7	1121.5	1159.2	1175.1	1180.9	1185.1
20°	2585.1	2142.7	1339.8	1001.9	1006.9	1057.1	1098.1	1128.2	1148.3	1155.0	1158.3
22.5°	2577.6	2046.5	1173.4	932.5	973.5	1023.7	1058.8	1093.1	1066.3	1044.6	1038.7
25°	2545.8	1925.2	1031.2	875.6	931.7	978.5	1018.7	981.0	968.5	951.7	953.4
27.5°	2477.2	1773.9	897.4	822.1	882.3	949.2	920.0	915.0	899.1	882.3	882.3
30°	2386.9	1614.1	785.3	766.1	823.0	856.4	863.1	855.6	846.4	824.6	826.3
32.5°	2305.8	1445.2	705.9	719.2	785.3	785.3	814.6	814.6	781.1	720.1	720.1
35°	2225.5	1286.3	647.3	679.9	723.4	737.6	777.8	725.1	677.4	649.8	648.2
37.5°	2162.8	1150.8	608.9	646.5	663.2	699.2	700.0	661.5	645.7	620.6	618.1
40°	2126.0	1037.1	585.4	629.8	631.4	664.9	609.7	620.6	617.2	598.0	595.5
42.5°	2105.9	949.2	567.9	615.5	607.2	574.6	564.5	582.9	588.8	578.7	574.6
45°	2090.0	880.7	553.7	566.2	587.9	528.6	524.4	538.6	551.1	550.3	547.0
47.5°	2081.6	833.0	541.1	535.3	539.4	501.0	492.6	499.3	515.2	525.2	524.4
50°	2049.0	796.2	522.7	503.5	476.7	476.7	472.5	472.5	491.8	511.8	513.5
52.5°	1991.3	752.7	495.9	473.4	442.4	455.8	457.5	454.1	474.2	495.9	497.6
55°	1927.8	720.1	460.0	445.8	414.0	436.6	444.1	440.7	454.1	469.2	468.3
57.5°	1928.6	719.2	429.0	418.2	387.2	412.3	430.7	431.5	430.7	441.6	441.6
60°	1977.1	736.0	404.8	381.4	356.3	386.4	416.5	416.5	410.6	426.5	428.2
62.5°	1991.3	734.3	389.7	346.2	328.7	363.0	395.6	400.6	396.4	419.0	421.5
65°	1865.9	695.0	374.7	314.5	303.6	337.0	369.7	383.9	379.7	409.0	412.3
67.5°	1691.9	644.0	351.3	286.0	277.7	312.0	342.9	358.0	357.1	395.6	397.3
70°	1458.6	581.3	322.0	256.8	252.6	282.7	310.3	326.2	333.7	378.0	377.2
72.5°	1129.9	498.5	277.7	225.8	225.0	252.6	276.8	294.4	308.6	351.3	351.3
75°	728.4	392.2	226.6	195.7	192.4	218.3	243.4	263.4	306.9	374.7	373.8
77.5°	444.9	299.4	182.3	163.1	162.2	185.7	210.8	245.0	335.4	333.7	324.5
80°	266.8	214.9	145.5	130.5	130.5	152.2	179.8	262.6	278.5	317.8	300.2
82.5°	138.8	132.1	108.7	96.2	100.4	119.6	163.9	209.9	227.5	193.2	177.3
85°	56.9	70.3	66.9	61.1	63.6	82.8	158.1	168.1	134.6	141.3	142.2
87.5°	19.2	30.9	30.9	24.3	26.8	58.5	93.7	56.0	67.7	40.1	30.1
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)