

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: P672042

Luminaire Tested: **CCP-SA-2E-840-U-AFL**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P672042
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2E-840-U-AFL
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ AFL distribution lens
Light Source: (32) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

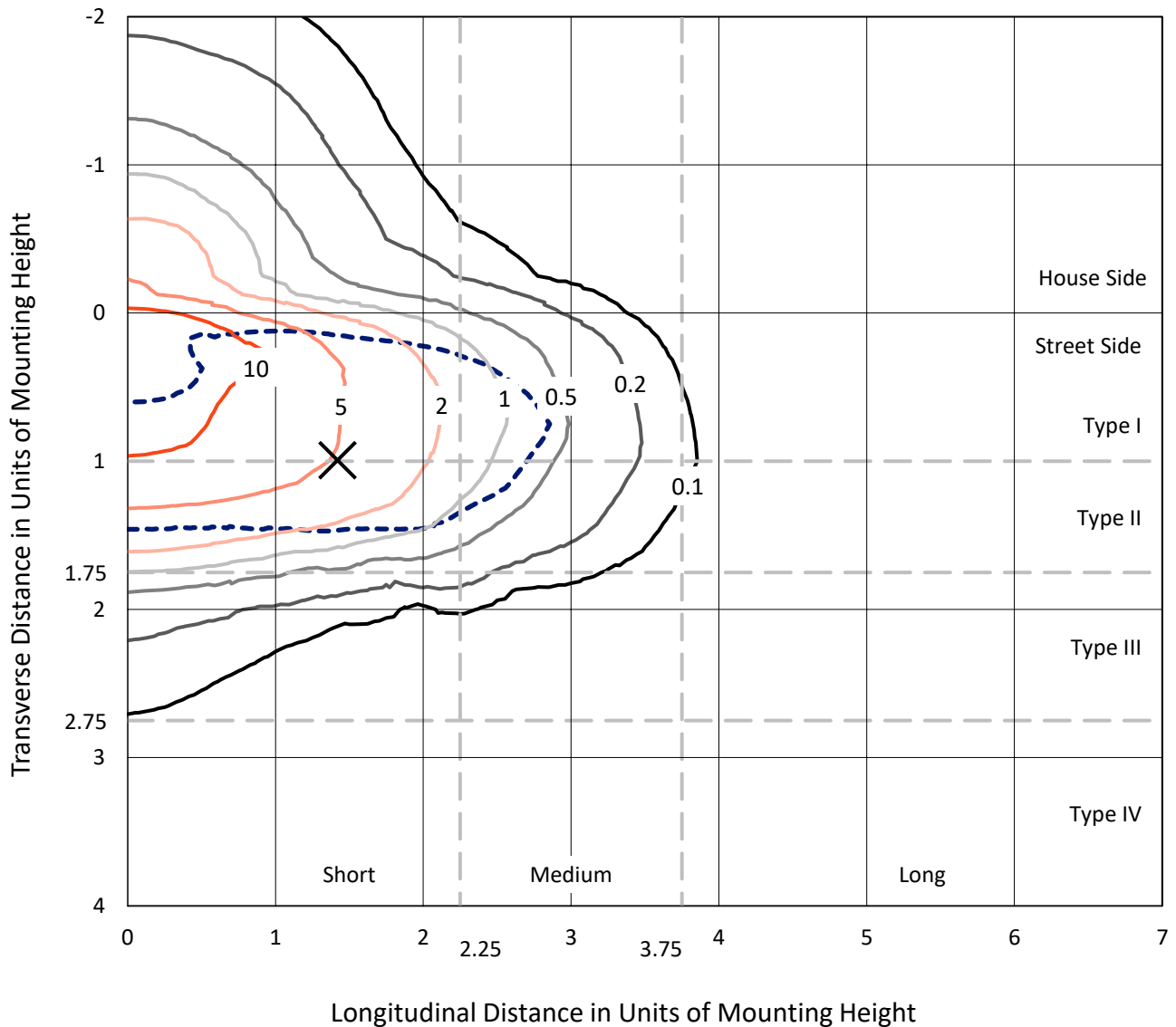
Lumens per Lamp: N/A
Luminaire Lumens: 11764.3 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 106.6
Input Voltage (V): 120
Input Current (A_{in}): 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

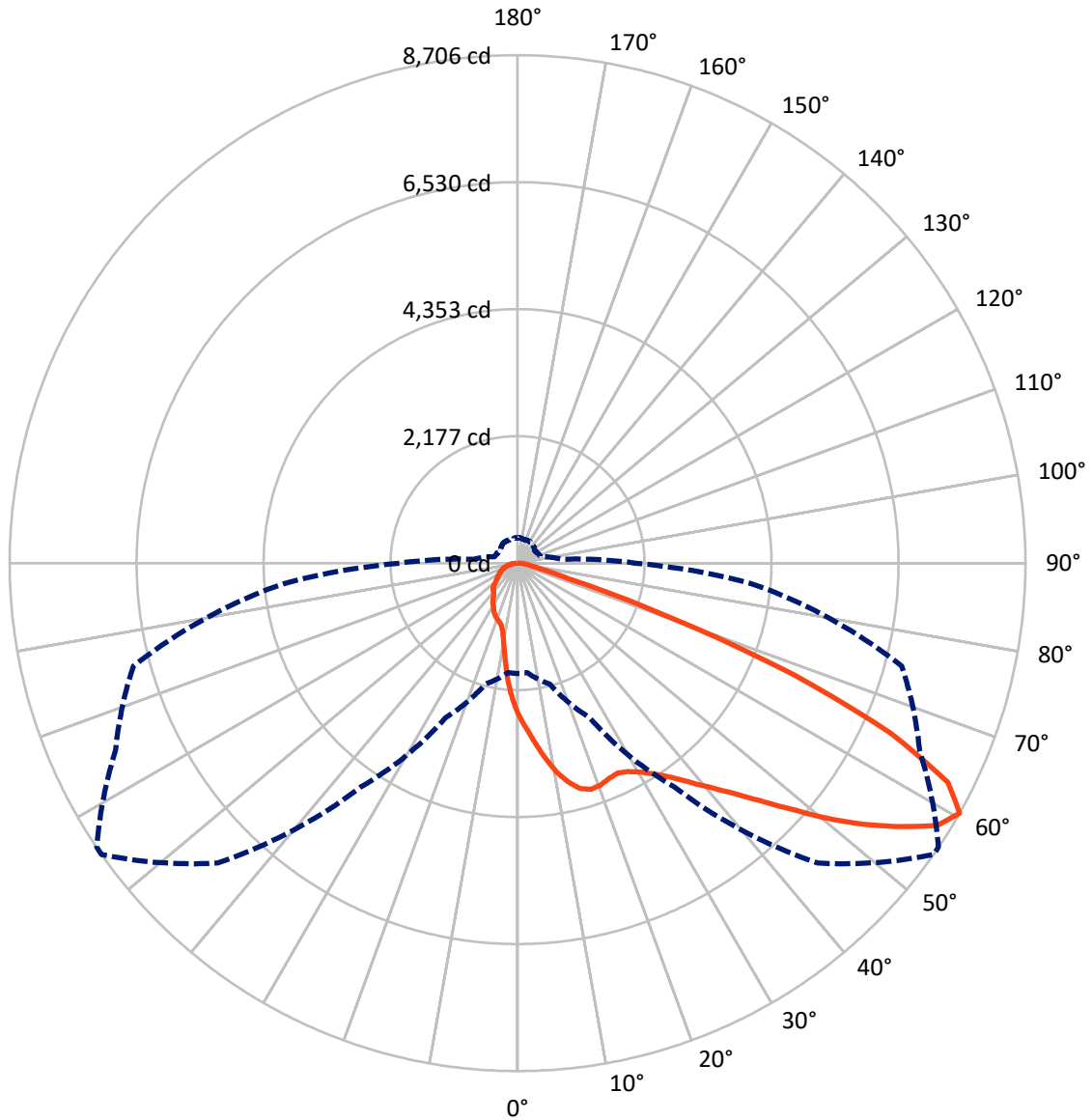
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 16.3 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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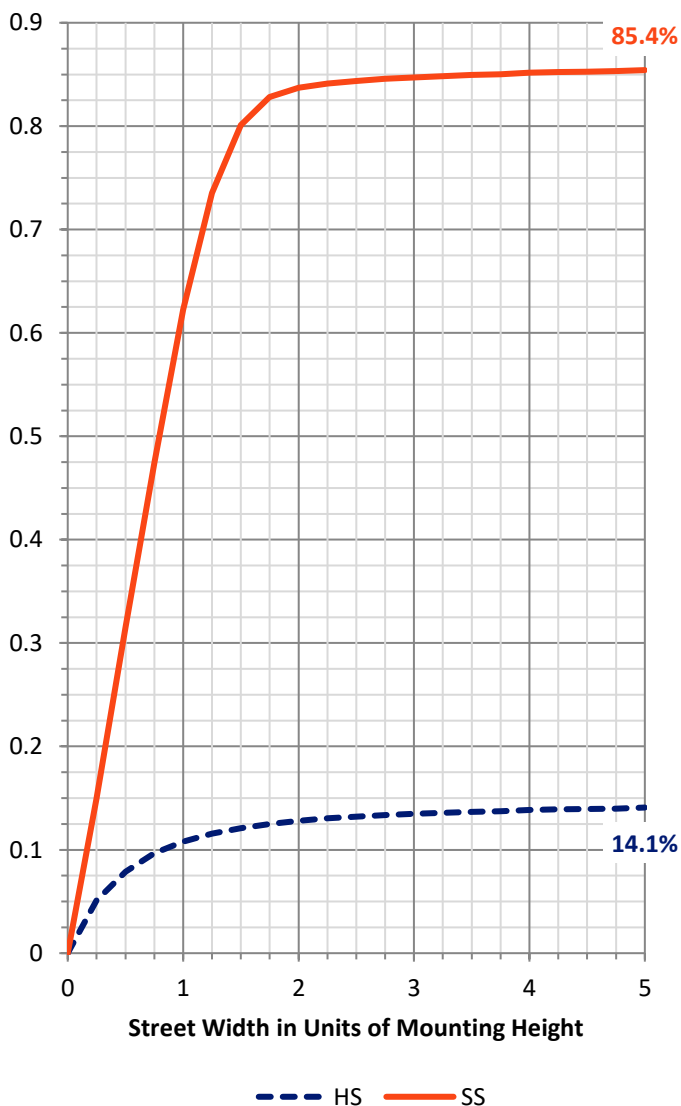
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1691.1	0.0	1691.1
	% Fixture	14.4	0.0	14.4
Street Side	Lumens	10073.2	0.0	10073.2
	% Fixture	85.6	0.0	85.6
Total	Lumens	11764.3	0.0	11764.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.2	2.1
10°-20°	691.7	5.9
20°-30°	1126.3	9.6
30°-40°	1683.4	14.3
40°-50°	2474.2	21.0
50°-60°	2899.9	24.6
60°-70°	1912.0	16.3
70°-80°	608.8	5.2
80°-90°	123.8	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°	11764.3	100.0
0°-180°	11764.3	100.0



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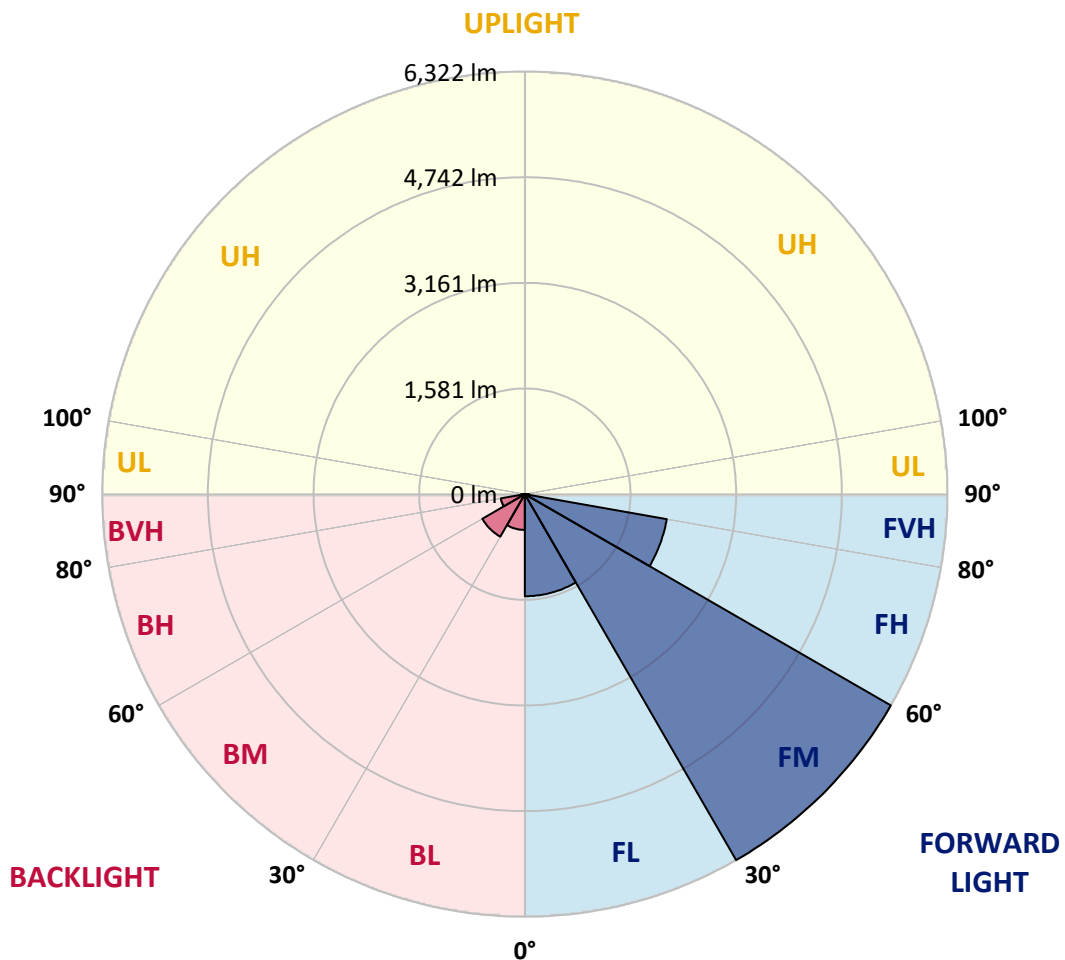
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1526.9	13.0			
FM (30°-60°)	6322.4	53.7			
FH (60°-80°)	2155.9	18.3			G2/5000
FVH (80°-90°)	67.9	0.6			G1/100
BL (0°-30°)	535.3	4.6	B2/1000		
BM (30°-60°)	735.0	6.2	B1/1000		
BH (60°-80°)	364.9	3.1	B1/500		G1/500
BVH (80°-90°)	55.9	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°	2609.1	2609.1	2609.1	2609.1	2609.1	2609.1	2609.1	2609.1	2609.1	2609.1	2609.1
2.5°	3036.2	3025.2	3025.2	2997.0	2955.2	2897.3	2828.2	2811.1	2784.7	2717.3	2630.4
5°	3499.2	3487.3	3471.1	3421.6	3344.0	3228.1	3082.3	3055.8	2961.2	2822.2	2665.3
7.5°	3805.3	3798.5	3793.4	3750.7	3674.0	3559.8	3364.5	3334.7	3174.4	2944.2	2698.6
10°	3773.8	3794.2	3830.0	3859.9	3875.2	3816.4	3633.1	3598.1	3399.5	3085.7	2748.0
12.5°	3477.9	3506.9	3573.4	3695.3	3836.0	3949.4	3845.4	3825.8	3639.9	3235.8	2810.3
15°	3257.9	3269.9	3302.3	3392.6	3602.4	3905.1	4009.9	3992.0	3864.1	3428.4	2881.9
17.5°	3189.7	3194.8	3202.5	3232.3	3375.6	3732.0	4077.3	4094.4	4081.6	3628.8	2962.9
20°	3223.8	3227.2	3228.1	3233.2	3301.4	3587.0	4059.4	4088.4	4272.6	3829.2	3043.1
22.5°	3355.1	3350.9	3344.9	3325.3	3363.6	3561.5	4011.7	4057.7	4420.1	4011.7	3117.2
25°	3584.5	3578.5	3536.7	3495.8	3512.0	3653.5	3986.1	4035.5	4535.2	4183.9	3171.8
27.5°	3857.3	3851.4	3808.7	3731.1	3714.1	3807.0	4045.8	4076.5	4619.6	4336.5	3195.7
30°	4140.4	4140.4	4087.5	3998.0	3943.4	3982.7	4155.7	4180.5	4683.5	4484.0	3211.0
32.5°	4449.1	4457.6	4375.7	4273.4	4212.9	4189.9	4310.1	4331.4	4776.5	4657.9	3243.4
35°	4845.5	4826.8	4727.0	4592.3	4495.1	4443.1	4501.1	4525.8	4912.9	4874.5	3295.4
37.5°	5291.5	5258.2	5135.4	4974.3	4804.6	4717.6	4756.0	4762.0	5115.0	5156.7	3390.1
40°	5659.8	5653.8	5549.8	5397.2	5183.2	5066.4	5047.6	5051.0	5395.5	5491.0	3533.3
42.5°	5970.2	5948.0	5929.2	5875.5	5648.7	5456.9	5380.1	5381.0	5699.9	5836.3	3677.4
45°	6107.4	6103.2	6158.6	6296.7	6133.9	5907.9	5798.8	5814.1	6048.6	6191.0	3816.4
47.5°	6048.6	6052.0	6200.4	6562.7	6659.1	6486.0	6292.5	6283.1	6386.2	6463.0	3939.2
50°	5523.4	5578.8	5980.4	6587.5	7003.5	7089.7	6871.4	6836.4	6682.1	6679.5	4014.2
52.5°	5126.9	5124.3	5370.8	6335.9	7125.5	7634.5	7438.4	7360.0	6926.8	6801.5	4020.2
55°	4591.4	4588.0	4771.3	5600.1	6883.3	8014.8	7973.0	7874.9	7151.1	6841.5	3979.3
57.5°	3477.0	3541.8	3724.3	4483.2	6116.0	7954.2	8483.7	8401.9	7370.2	6823.6	3971.6
60°	1892.0	1884.3	2148.6	2922.0	4682.7	7267.0	8706.3	8702.0	7603.0	6816.8	4018.5
62.5°	872.2	863.7	916.6	1301.1	2684.9	5821.8	8276.5	8337.9	7818.7	6754.6	4014.2
65°	652.3	630.1	558.5	605.4	1027.4	3475.3	7030.0	7193.7	7486.1	6498.8	3828.3
67.5°	581.5	560.2	476.6	446.8	515.8	1226.1	5099.6	5250.5	6260.1	6019.6	3527.4
70°	532.9	514.1	430.6	383.7	387.1	543.1	2669.6	2966.3	4588.0	5023.7	3006.4
72.5°	486.0	469.8	393.9	337.6	325.7	359.0	909.8	1097.3	2853.8	3661.2	2241.6
75°	436.5	421.2	354.7	302.7	279.7	266.0	433.1	466.4	1509.2	2021.6	1203.1
77.5°	379.4	370.9	316.3	266.9	247.3	201.2	288.2	302.7	646.3	793.8	573.0
80°	330.0	323.1	282.2	242.1	221.7	155.2	198.7	208.9	318.9	396.5	320.6
82.5°	214.9	231.9	233.6	208.0	195.3	124.5	131.3	139.0	211.5	233.6	139.8
85°	88.7	107.4	161.1	143.2	135.6	105.7	87.0	88.7	129.6	136.4	50.3
87.5°	40.1	44.3	79.3	80.1	69.9	40.1	43.5	47.7	66.5	65.7	22.2
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°	2609.1	2609.1	2609.1	2609.1	2609.1	2609.1	2609.1	2609.1	2609.1	2609.1	2609.1
2.5°	2606.5	2567.3	2497.4	2407.8	2343.9	2297.0	2245.8	2208.3	2166.5	2129.9	2135.9
5°	2600.5	2524.7	2367.8	2201.5	2039.5	1906.5	1795.7	1713.8	1629.4	1596.1	1591.9
7.5°	2605.7	2476.9	2219.4	1947.4	1701.0	1531.3	1402.6	1325.0	1276.4	1248.3	1250.0
10°	2603.9	2431.7	2059.1	1684.0	1414.5	1259.3	1180.9	1155.3	1151.1	1154.5	1159.6
12.5°	2606.5	2370.3	1879.2	1446.9	1209.0	1129.7	1133.2	1156.2	1170.7	1180.0	1186.0
15°	2617.6	2320.0	1695.0	1260.2	1101.6	1104.2	1140.8	1176.6	1198.0	1208.2	1213.3
17.5°	2633.8	2256.9	1531.3	1118.7	1056.4	1095.6	1143.4	1181.8	1198.0	1203.9	1208.2
20°	2635.5	2184.5	1365.9	1021.5	1026.6	1077.7	1119.5	1150.2	1170.7	1177.5	1180.9
22.5°	2627.8	2086.4	1196.2	950.7	992.5	1043.6	1079.4	1114.4	1087.1	1064.9	1059.0
25°	2595.4	1962.8	1051.3	892.7	949.8	997.6	1038.5	1000.1	987.4	970.3	972.0
27.5°	2525.5	1808.4	914.9	838.1	899.5	967.7	937.9	932.8	916.6	899.5	899.5
30°	2433.4	1645.6	800.6	781.0	839.0	873.1	879.9	872.2	862.9	840.7	842.4
32.5°	2350.7	1473.4	719.6	733.3	800.6	800.6	830.5	830.5	796.4	734.1	734.1
35°	2268.9	1311.4	659.9	693.2	737.5	752.0	793.0	739.2	690.6	662.5	660.8
37.5°	2204.9	1173.2	620.7	659.1	676.1	712.8	713.7	674.4	658.2	632.7	630.1
40°	2167.4	1057.3	596.8	642.0	643.7	677.8	621.6	632.7	629.2	609.6	607.1
42.5°	2146.9	967.7	578.9	627.5	619.0	585.8	575.5	594.3	600.3	590.0	585.8
45°	2130.7	897.8	564.4	577.2	599.4	538.9	534.6	549.1	561.9	561.0	557.6
47.5°	2122.2	849.2	551.7	545.7	549.9	510.7	502.2	509.0	525.2	535.5	534.6
50°	2089.0	811.7	532.9	513.3	486.0	486.0	481.7	481.7	501.3	521.8	523.5
52.5°	2030.1	767.4	505.6	482.6	451.0	464.7	466.4	463.0	483.4	505.6	507.3
55°	1965.3	734.1	468.9	454.5	422.1	445.1	452.7	449.3	463.0	478.3	477.5
57.5°	1966.2	733.3	437.4	426.3	394.8	420.3	439.1	440.0	439.1	450.2	450.2
60°	2015.6	750.3	412.7	388.8	363.2	393.9	424.6	424.6	418.6	434.8	436.5
62.5°	2030.1	748.6	397.3	353.0	335.1	370.0	403.3	408.4	404.1	427.2	429.7
65°	1902.2	708.5	382.0	320.6	309.5	343.6	376.9	391.4	387.1	416.9	420.3
67.5°	1724.9	656.5	358.1	291.6	283.1	318.0	349.6	364.9	364.1	403.3	405.0
70°	1487.0	592.6	328.3	261.8	257.5	288.2	316.3	332.5	340.2	385.4	384.5
72.5°	1151.9	508.2	283.1	230.2	229.4	257.5	282.2	300.1	314.6	358.1	358.1
75°	742.6	399.9	231.1	199.5	196.1	222.5	248.1	268.6	312.9	382.0	381.1
77.5°	453.6	305.2	185.9	166.3	165.4	189.3	214.9	249.8	341.9	340.2	330.8
80°	272.0	219.1	148.4	133.0	133.0	155.2	183.3	267.7	283.9	324.0	306.1
82.5°	141.5	134.7	110.8	98.1	102.3	121.9	167.1	214.0	231.9	197.0	180.8
85°	58.0	71.6	68.2	62.2	64.8	84.4	161.1	171.4	137.3	144.1	144.9
87.5°	19.6	31.5	31.5	24.7	27.3	59.7	95.5	57.1	69.1	40.9	30.7
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)