

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: P672009

Luminaire Tested: **CCP-SA-2E-827-U-AFL**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P672009
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2E-827-U-AFL
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ AFL distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

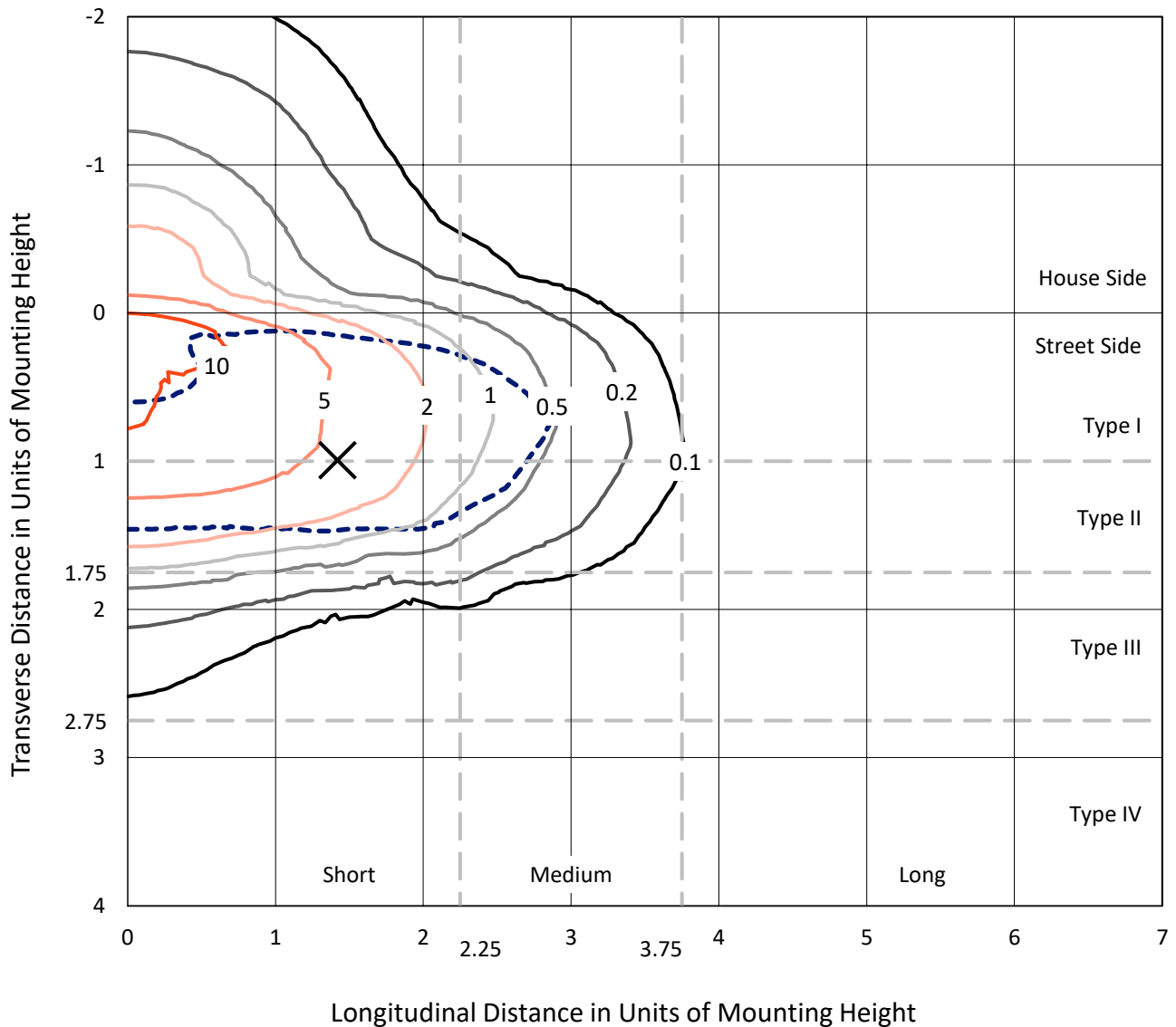
Lumens per Lamp: N/A
Luminaire Lumens: 10143 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

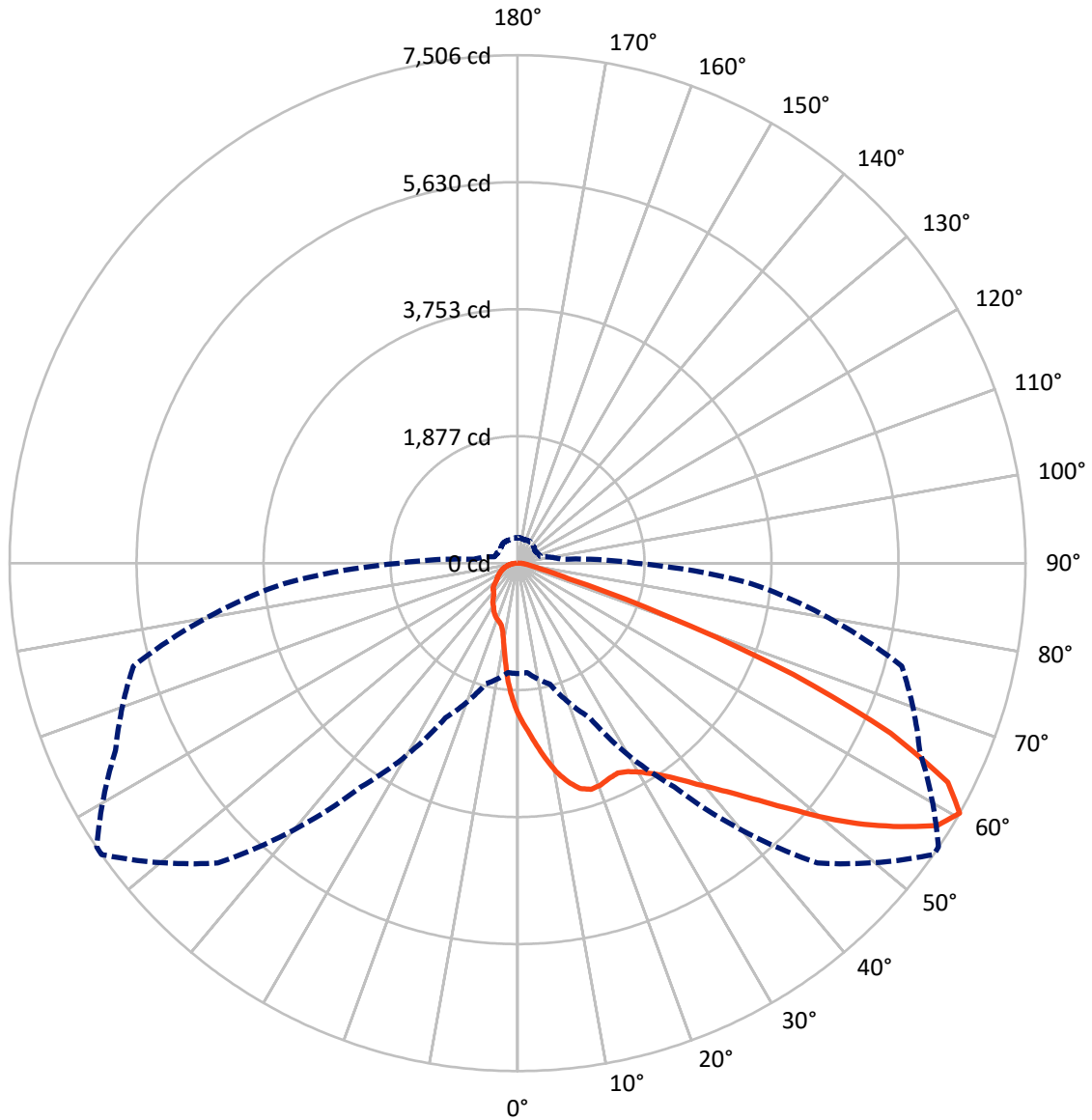
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 14.1 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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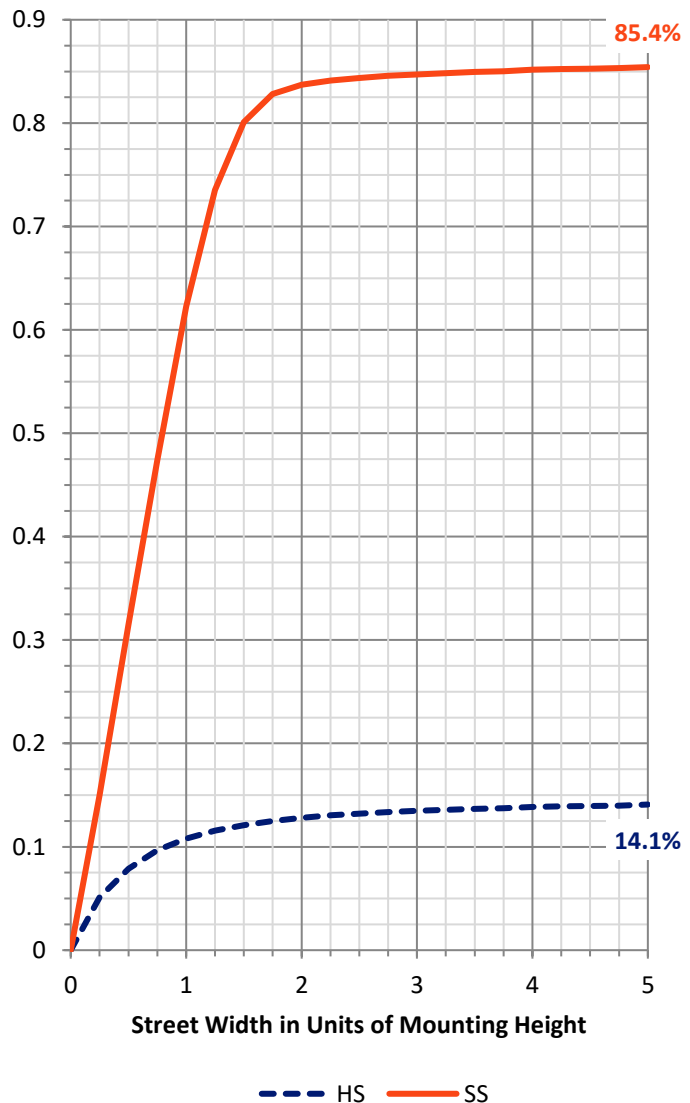
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1458.1	0.0	1458.1
	% Fixture	14.4	0.0	14.4
Street Side	Lumens	8685.0	0.0	8685.0
	% Fixture	85.6	0.0	85.6
Total	Lumens	10143.0	0.0	10143.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.5	2.1
10°-20°	596.4	5.9
20°-30°	971.1	9.6
30°-40°	1451.4	14.3
40°-50°	2133.2	21.0
50°-60°	2500.2	24.6
60°-70°	1648.5	16.3
70°-80°	524.9	5.2
80°-90°	106.7	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°	10143.0	100.0
0°-180°	10143.0	100.0



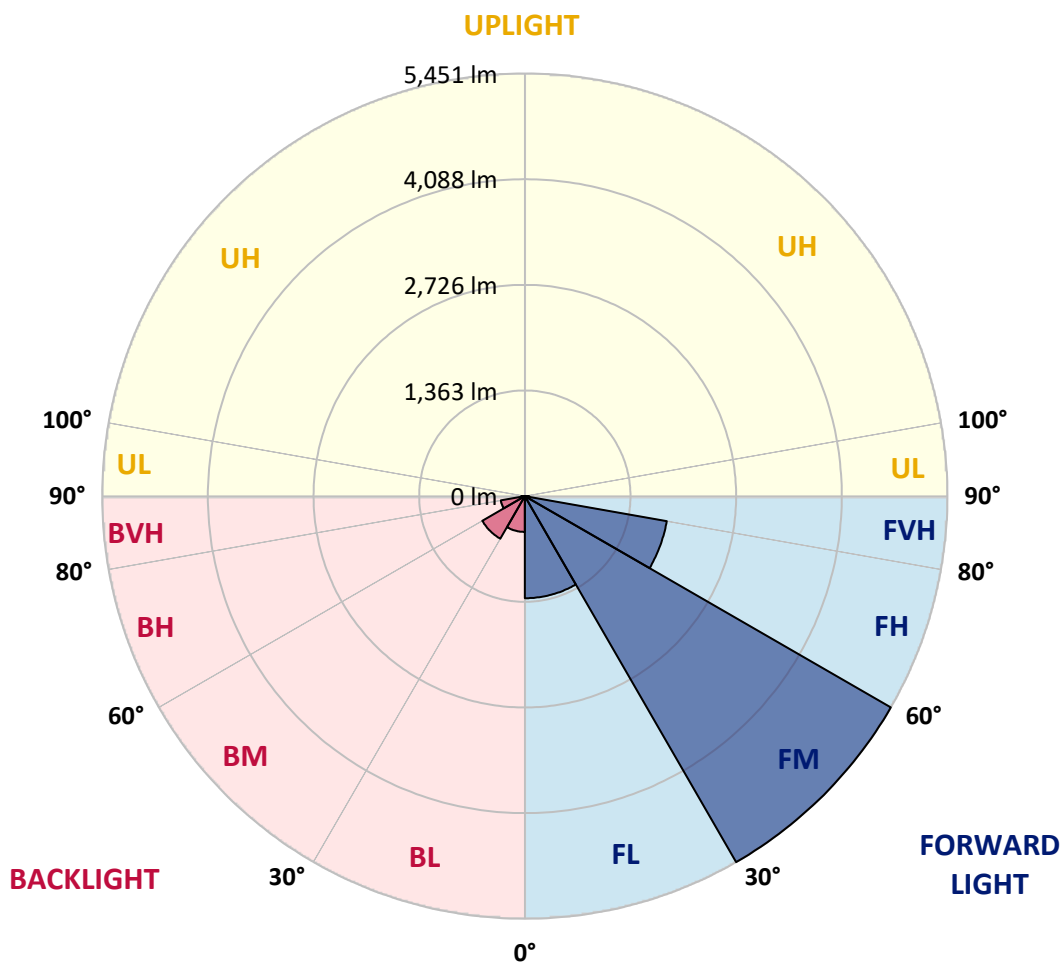
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1316.5	13.0			
FM (30°-60°)	5451.1	53.7			
FH (60°-80°)	1858.8	18.3			G2/5000
FVH (80°-90°)	58.5	0.6			G1/100
BL (0°-30°)	461.5	4.6	B1/500		
BM (30°-60°)	633.7	6.2	B1/1000		
BH (60°-80°)	314.6	3.1	B1/500		G1/500
BVH (80°-90°)	48.2	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°	2249.5	2249.5	2249.5	2249.5	2249.5	2249.5	2249.5	2249.5	2249.5	2249.5	2249.5
2.5°	2617.8	2608.2	2608.2	2584.0	2548.0	2498.0	2438.4	2423.7	2400.9	2342.9	2267.9
5°	3017.0	3006.7	2992.7	2950.1	2883.2	2783.2	2657.5	2634.7	2553.1	2433.3	2298.0
7.5°	3280.9	3275.0	3270.6	3233.8	3167.7	3069.2	2900.8	2875.1	2736.9	2538.4	2326.7
10°	3253.7	3271.3	3302.2	3327.9	3341.2	3290.4	3132.4	3102.3	2931.0	2660.4	2369.3
12.5°	2998.6	3023.6	3080.9	3186.1	3307.4	3405.1	3315.4	3298.5	3138.3	2789.8	2423.0
15°	2808.9	2819.2	2847.2	2925.1	3105.9	3366.9	3457.3	3441.9	3331.6	2956.0	2484.7
17.5°	2750.1	2754.5	2761.2	2786.9	2910.4	3217.7	3515.4	3530.1	3519.1	3128.7	2554.6
20°	2779.5	2782.5	2783.2	2787.6	2846.4	3092.7	3500.0	3525.0	3683.7	3301.5	2623.7
22.5°	2892.7	2889.1	2883.9	2867.0	2900.1	3070.6	3458.8	3498.5	3810.9	3458.8	2687.6
25°	3090.5	3085.3	3049.3	3014.0	3028.0	3150.0	3436.7	3479.4	3910.2	3607.3	2734.7
27.5°	3325.7	3320.6	3283.8	3216.9	3202.2	3282.4	3488.2	3514.7	3982.9	3738.9	2755.3
30°	3569.8	3569.8	3524.2	3447.0	3400.0	3433.8	3583.0	3604.3	4038.1	3866.1	2768.5
32.5°	3835.9	3843.3	3772.7	3684.5	3632.3	3612.4	3716.1	3734.5	4118.2	4016.0	2796.4
35°	4177.7	4161.6	4075.6	3959.4	3875.6	3830.8	3880.8	3902.1	4235.8	4202.7	2841.3
37.5°	4562.2	4533.6	4427.7	4288.8	4142.5	4067.5	4100.6	4105.7	4410.0	4446.1	2922.9
40°	4879.8	4874.7	4785.0	4653.4	4468.9	4368.1	4352.0	4354.9	4651.9	4734.2	3046.4
42.5°	5147.4	5128.3	5112.1	5065.8	4870.2	4704.8	4638.7	4639.4	4914.3	5032.0	3170.6
45°	5265.7	5262.1	5309.8	5428.9	5288.5	5093.7	4999.6	5012.9	5215.0	5337.8	3290.4
47.5°	5215.0	5218.0	5345.9	5658.3	5741.4	5592.1	5425.3	5417.2	5506.1	5572.3	3396.3
50°	4762.2	4810.0	5156.2	5679.6	6038.4	6112.6	5924.4	5894.3	5761.2	5759.0	3461.0
52.5°	4420.3	4418.1	4630.6	5462.8	6143.5	6582.4	6413.3	6345.6	5972.2	5864.1	3466.1
55°	3958.7	3955.7	4113.8	4828.3	5934.7	6910.2	6874.2	6789.7	6165.5	5898.7	3430.9
57.5°	2997.9	3053.7	3211.1	3865.3	5273.1	6858.0	7314.6	7244.0	6354.5	5883.3	3424.2
60°	1631.3	1624.6	1852.5	2519.3	4037.3	6265.5	7506.4	7502.7	6555.2	5877.4	3464.7
62.5°	752.0	744.7	790.3	1121.8	2314.9	5019.5	7135.9	7188.8	6741.1	5823.7	3461.0
65°	562.4	543.3	481.5	521.9	885.8	2996.4	6061.2	6202.3	6454.4	5603.2	3300.7
67.5°	501.4	483.0	410.9	385.2	444.8	1057.1	4396.8	4526.9	5397.3	5190.0	3041.2
70°	459.5	443.3	371.2	330.8	333.7	468.3	2301.7	2557.5	3955.7	4331.4	2592.1
72.5°	419.0	405.1	339.6	291.1	280.8	309.5	784.4	946.1	2460.5	3156.7	1932.7
75°	376.4	363.2	305.8	261.0	241.1	229.4	373.4	402.1	1301.2	1743.0	1037.3
77.5°	327.1	319.8	272.7	230.1	213.2	173.5	248.5	261.0	557.2	684.4	494.0
80°	284.5	278.6	243.3	208.8	191.1	133.8	171.3	180.1	274.9	341.8	276.4
82.5°	185.3	200.0	201.4	179.4	168.3	107.3	113.2	119.8	182.3	201.4	120.6
85°	76.5	92.6	138.9	123.5	116.9	91.2	75.0	76.5	111.7	117.6	43.4
87.5°	34.6	38.2	68.4	69.1	60.3	34.6	37.5	41.2	57.3	56.6	19.1
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°	2249.5	2249.5	2249.5	2249.5	2249.5	2249.5	2249.5	2249.5	2249.5	2249.5	2249.5
2.5°	2247.3	2213.5	2153.2	2076.0	2020.9	1980.4	1936.3	1904.0	1868.0	1836.4	1841.5
5°	2242.1	2176.7	2041.5	1898.1	1758.4	1643.8	1548.2	1477.6	1404.8	1376.2	1372.5
7.5°	2246.6	2135.6	1913.5	1679.0	1466.6	1320.3	1209.3	1142.4	1100.5	1076.2	1077.7
10°	2245.1	2096.6	1775.3	1451.9	1219.6	1085.8	1018.2	996.1	992.4	995.4	999.8
12.5°	2247.3	2043.7	1620.2	1247.5	1042.4	974.0	977.0	996.8	1009.3	1017.4	1022.6
15°	2256.9	2000.3	1461.4	1086.5	949.8	952.0	983.6	1014.5	1032.9	1041.7	1046.1
17.5°	2270.8	1945.9	1320.3	964.5	910.8	944.6	985.8	1018.9	1032.9	1038.0	1041.7
20°	2272.3	1883.4	1177.7	880.7	885.1	929.2	965.2	991.7	1009.3	1015.2	1018.2
22.5°	2265.7	1798.9	1031.4	819.7	855.7	899.8	930.7	960.8	937.3	918.2	913.0
25°	2237.7	1692.3	906.4	769.7	818.9	860.1	895.4	862.3	851.3	836.6	838.0
27.5°	2177.5	1559.2	788.8	722.6	775.6	834.4	808.6	804.2	790.3	775.6	775.6
30°	2098.1	1418.8	690.3	673.4	723.4	752.8	758.7	752.0	744.0	724.8	726.3
32.5°	2026.8	1270.3	620.5	632.2	690.3	690.3	716.0	716.0	686.6	632.9	632.9
35°	1956.2	1130.6	569.0	597.7	635.9	648.4	683.7	637.4	595.5	571.2	569.7
37.5°	1901.0	1011.5	535.2	568.3	583.0	614.6	615.3	581.5	567.5	545.5	543.3
40°	1868.7	911.6	514.6	553.6	555.0	584.4	535.9	545.5	542.5	525.6	523.4
42.5°	1851.1	834.4	499.2	541.1	533.7	505.0	496.2	512.4	517.5	508.7	505.0
45°	1837.1	774.1	486.7	497.7	516.8	464.6	460.9	473.4	484.5	483.7	480.8
47.5°	1829.7	732.2	475.6	470.5	474.2	440.3	433.0	438.9	452.8	461.7	460.9
50°	1801.1	699.8	459.5	442.5	419.0	419.0	415.3	415.3	432.3	449.9	451.4
52.5°	1750.3	661.6	435.9	416.1	388.9	400.6	402.1	399.2	416.8	435.9	437.4
55°	1694.5	632.9	404.3	391.8	363.9	383.7	390.4	387.4	399.2	412.4	411.7
57.5°	1695.2	632.2	377.1	367.6	340.4	362.4	378.6	379.3	378.6	388.1	388.1
60°	1737.8	646.9	355.8	335.2	313.2	339.6	366.1	366.1	360.9	374.9	376.4
62.5°	1750.3	645.4	342.6	304.3	288.9	319.0	347.7	352.1	348.5	368.3	370.5
65°	1640.1	610.9	329.3	276.4	266.9	296.3	324.9	337.4	333.7	359.5	362.4
67.5°	1487.2	566.1	308.8	251.4	244.1	274.2	301.4	314.6	313.9	347.7	349.2
70°	1282.1	510.9	283.0	225.7	222.0	248.5	272.7	286.7	293.3	332.3	331.5
72.5°	993.2	438.1	244.1	198.5	197.8	222.0	243.3	258.8	271.3	308.8	308.8
75°	640.3	344.8	199.2	172.0	169.1	191.9	213.9	231.6	269.8	329.3	328.6
77.5°	391.1	263.2	160.3	143.4	142.6	163.2	185.3	215.4	294.8	293.3	285.2
80°	234.5	188.9	127.9	114.7	114.7	133.8	158.1	230.8	244.8	279.3	263.9
82.5°	122.0	116.2	95.6	84.5	88.2	105.1	144.1	184.5	200.0	169.8	155.8
85°	50.0	61.8	58.8	53.7	55.9	72.8	138.9	147.8	118.4	124.2	125.0
87.5°	16.9	27.2	27.2	21.3	23.5	51.5	82.3	49.3	59.5	35.3	26.5
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)