

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: P672085

Luminaire Tested: **CCP-SA-2C-727-U-T2R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672085  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2C-727-U-T2R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @615mA w/ T2R distribution lens  
Light Source: (32) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

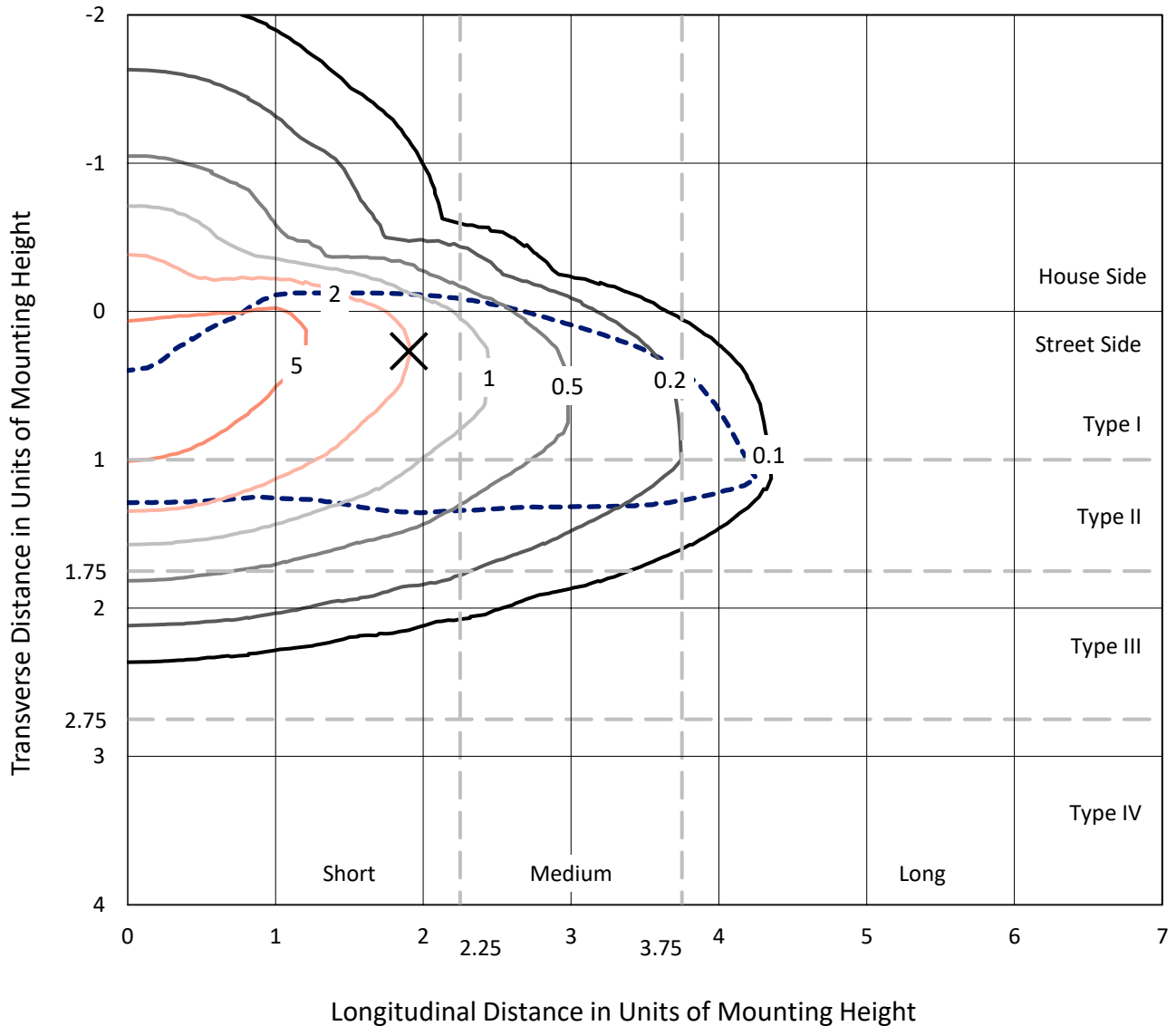
Lumens per Lamp: N/A  
Luminaire Lumens: 7680.6 lumens  
Efficiency: N/A  
Efficacy: 123.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 62.1  
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

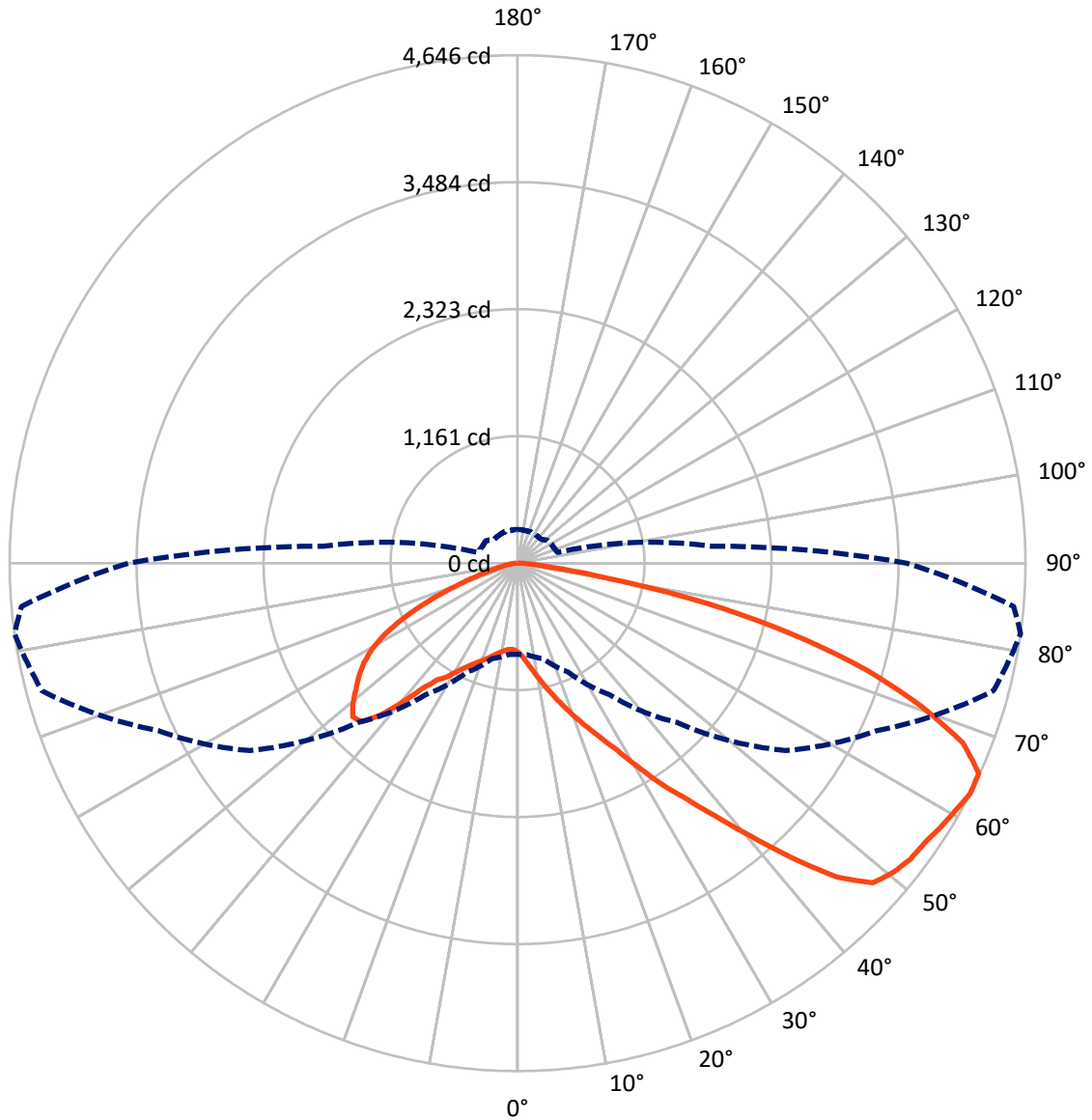
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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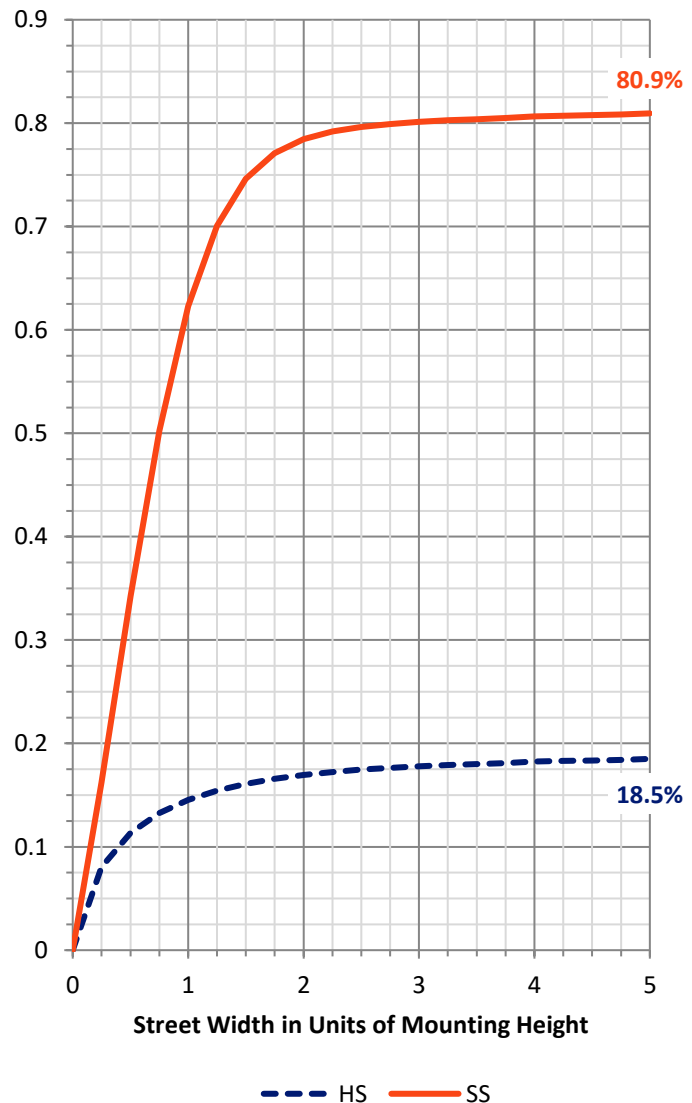
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1447.0	0.0	1447.0
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	6233.6	0.0	6233.6
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	7680.6	0.0	7680.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.4	1.2
10°-20°	340.9	4.4
20°-30°	706.0	9.2
30°-40°	1198.3	15.6
40°-50°	1631.8	21.2
50°-60°	1651.7	21.5
60°-70°	1301.7	16.9
70°-80°	641.3	8.3
80°-90°	118.6	1.5
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°	7680.6	100.0
0°-180°	7680.6	100.0



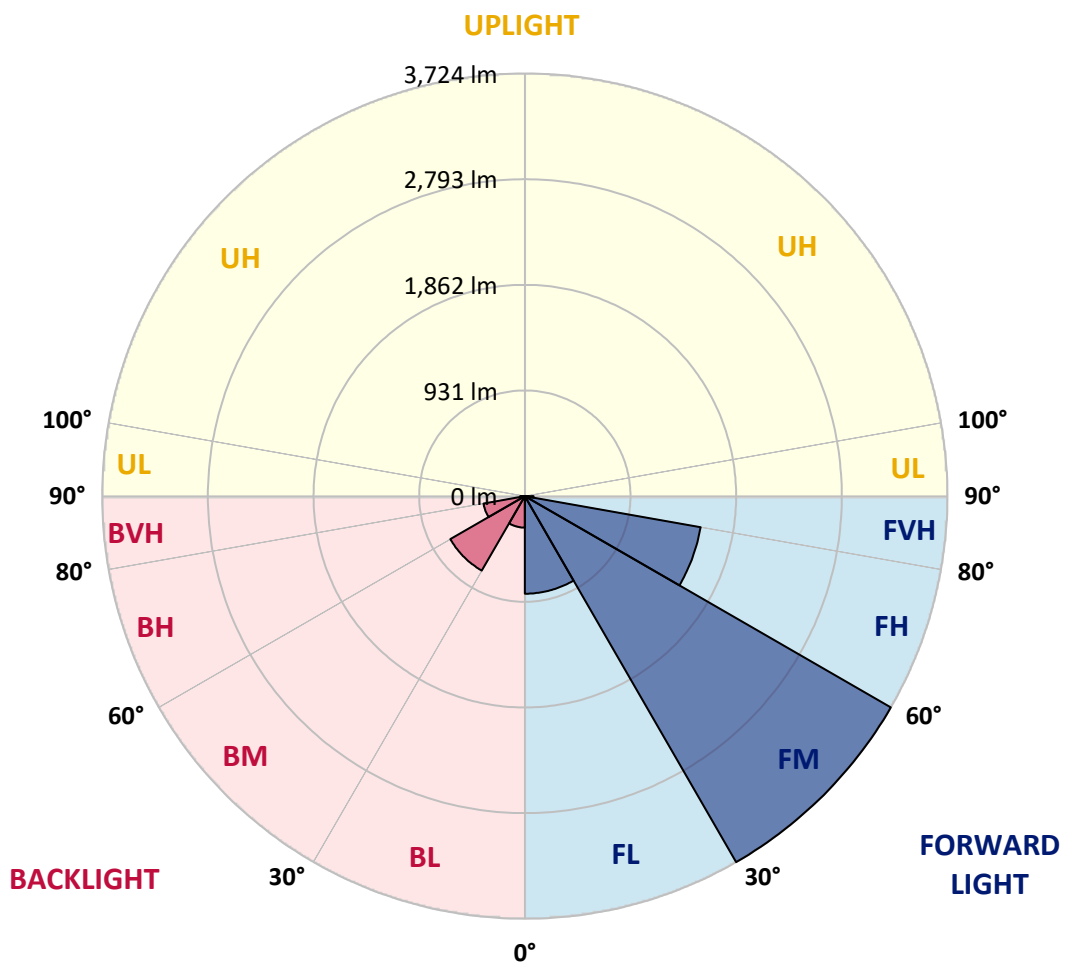
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	859.6	11.2			
FM (30°-60°)	3723.8	48.5			
FH (60°-80°)	1573.1	20.5			G1/1800
FVH (80°-90°)	77.1	1.0			G1/100
BL (0°-30°)	277.6	3.6	B1/500		
BM (30°-60°)	757.9	9.9	B1/1000		
BH (60°-80°)	369.9	4.8	B1/500		G1/500
BVH (80°-90°)	41.6	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	816.8	816.8	816.8	816.8	816.8	816.8	816.8	816.8	816.8	816.8	816.8
2.5°	1087.8	1071.2	1062.3	1052.4	1024.7	1007.0	973.8	935.1	890.3	852.2	845.0
5°	1317.2	1300.7	1302.9	1278.5	1238.2	1200.6	1138.6	1065.6	980.5	915.2	892.5
7.5°	1479.3	1461.0	1465.5	1455.5	1422.9	1381.4	1302.9	1208.9	1084.4	987.7	951.2
10°	1587.7	1589.9	1593.2	1589.3	1568.3	1539.0	1461.0	1357.1	1202.2	1073.4	1023.6
12.5°	1710.4	1716.5	1715.4	1717.1	1706.0	1682.8	1606.5	1508.6	1327.8	1165.7	1101.0
15°	1866.9	1860.8	1865.8	1873.0	1860.8	1835.4	1767.9	1651.8	1459.4	1268.6	1188.4
17.5°	2038.4	2025.6	2038.9	2031.7	2022.9	2006.3	1932.2	1808.3	1595.4	1379.7	1285.7
20°	2186.6	2178.3	2185.5	2186.6	2188.2	2184.9	2108.6	1977.0	1738.1	1500.8	1390.8
22.5°	2353.0	2349.1	2348.0	2348.6	2350.3	2354.1	2302.1	2161.7	1896.2	1628.0	1504.2
25°	2585.8	2582.0	2556.5	2528.3	2511.7	2523.9	2496.8	2371.3	2071.0	1770.7	1628.6
27.5°	2846.8	2840.8	2807.0	2735.7	2682.6	2691.5	2688.7	2602.4	2272.3	1934.4	1777.9
30°	3117.8	3102.9	3056.4	2956.3	2872.8	2857.4	2865.1	2836.3	2525.6	2151.7	1985.8
32.5°	3359.5	3331.8	3270.4	3169.2	3069.7	3024.9	3026.0	3038.7	2800.9	2405.0	2203.7
35°	3507.1	3488.9	3443.0	3340.7	3229.5	3199.7	3191.4	3255.0	3053.7	2639.5	2398.9
37.5°	3586.8	3569.1	3519.8	3437.4	3353.4	3341.2	3356.7	3455.1	3340.7	2932.0	2664.4
40°	3572.4	3553.6	3521.5	3464.0	3408.7	3418.1	3486.7	3638.7	3654.2	3282.1	3042.6
42.5°	3454.0	3434.1	3431.4	3427.5	3401.5	3443.0	3566.9	3773.1	3942.3	3686.3	3500.5
45°	3245.0	3232.8	3247.2	3313.6	3346.2	3426.4	3604.5	3838.4	4195.6	4097.2	3933.5
47.5°	2980.1	2972.9	3005.6	3110.6	3216.2	3375.5	3629.3	3856.1	4369.8	4369.8	4217.2
50°	2683.7	2680.9	2724.1	2876.7	3042.1	3282.1	3626.6	3872.7	4446.1	4450.0	4317.3
52.5°	2270.1	2284.4	2399.5	2600.8	2825.3	3135.5	3587.9	3919.1	4489.3	4498.1	4384.2
55°	1793.4	1807.2	1980.8	2251.8	2539.4	2957.4	3472.3	3905.3	4497.6	4517.5	4422.3
57.5°	1431.7	1434.5	1542.9	1864.7	2220.8	2729.6	3339.0	3813.5	4473.2	4560.0	4481.0
60°	1120.4	1129.2	1201.7	1456.6	1851.4	2436.0	3190.3	3722.8	4487.0	4600.4	4534.0
62.5°	834.5	836.7	904.2	1101.6	1471.0	2061.6	2988.4	3626.0	4506.4	4645.8	4555.6
65°	543.6	543.0	608.3	786.4	1098.8	1657.3	2671.5	3474.5	4508.1	4635.8	4456.6
67.5°	345.6	347.8	376.0	488.3	735.5	1250.9	2240.2	3193.0	4429.5	4394.7	4096.1
70°	280.4	280.9	289.8	319.1	447.9	854.9	1683.9	2752.8	4181.2	3914.1	3560.2
72.5°	250.0	250.5	254.9	258.3	298.6	513.7	1104.9	2235.2	3739.9	3336.2	2953.6
75°	224.5	224.5	227.3	224.0	245.0	322.4	627.1	1680.6	3080.2	2598.0	2231.4
77.5°	196.9	196.3	196.3	194.7	211.8	235.6	314.1	1172.9	2218.6	1771.8	1447.2
80°	167.0	165.9	167.6	166.5	183.0	178.6	183.0	723.9	1202.8	812.4	616.0
82.5°	130.0	130.0	134.9	136.0	151.0	129.4	128.8	343.4	456.8	303.6	227.3
85°	68.0	76.3	102.9	107.3	113.9	81.3	94.6	160.4	183.0	116.1	83.0
87.5°	20.5	21.6	63.0	70.8	70.2	40.9	58.1	77.4	85.7	51.4	33.7
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°	816.8	816.8	816.8	816.8	816.8	816.8	816.8	816.8	816.8	816.8	816.8
2.5°	826.7	807.4	766.5	730.0	702.3	675.8	657.5	648.1	636.0	637.6	633.7
5°	852.2	812.4	739.9	681.3	642.0	612.2	593.9	584.5	575.7	571.2	574.6
7.5°	890.3	828.4	727.2	656.4	615.5	590.1	580.1	577.3	575.1	573.5	576.2
10°	939.5	856.6	725.0	647.6	610.0	594.5	590.6	588.9	586.7	584.5	586.2
12.5°	989.9	887.6	732.7	649.8	618.8	607.2	602.2	600.0	594.5	591.7	592.3
15°	1052.9	925.2	743.2	658.6	630.4	615.5	608.9	602.8	593.9	590.1	591.7
17.5°	1120.4	970.0	757.6	666.9	634.8	616.6	603.3	594.5	585.6	580.1	580.7
20°	1196.7	1014.2	770.3	669.7	632.6	607.2	591.2	580.7	569.0	563.0	561.3
22.5°	1275.8	1060.7	780.3	667.5	620.5	591.2	572.9	560.2	546.4	537.0	537.5
25°	1372.0	1123.7	788.6	659.7	604.4	570.1	549.7	533.6	519.3	510.4	511.0
27.5°	1487.6	1195.0	798.5	647.6	585.1	547.5	523.7	507.7	493.8	485.5	484.4
30°	1641.9	1287.9	809.6	632.6	560.7	522.6	499.4	482.8	469.5	461.8	461.8
32.5°	1815.5	1401.3	817.3	614.9	533.6	496.0	475.0	461.8	451.8	441.3	440.2
35°	1966.5	1489.2	841.1	601.1	509.9	471.2	456.8	447.4	432.4	422.5	420.8
37.5°	2188.2	1644.1	911.3	597.2	481.1	451.8	449.0	431.3	414.2	395.4	393.7
40°	2545.5	1912.3	993.2	578.4	451.2	441.3	438.5	414.8	374.4	362.8	360.6
42.5°	3000.0	2235.2	1002.0	523.7	430.2	432.4	424.2	377.7	360.0	351.2	348.9
45°	3410.4	2497.3	951.7	467.8	414.8	419.2	402.0	363.9	353.9	345.6	343.4
47.5°	3641.0	2578.1	856.6	425.8	403.1	407.6	366.6	357.2	347.3	339.0	336.8
50°	3705.7	2507.9	746.0	401.5	394.3	395.9	357.2	351.7	342.9	336.2	332.9
52.5°	3718.4	2402.8	643.7	387.1	387.7	372.7	348.9	344.5	339.0	328.5	324.6
55°	3723.9	2308.2	551.9	378.3	383.2	342.9	340.1	336.8	332.4	321.3	319.1
57.5°	3738.3	2187.1	480.0	371.6	377.7	329.0	330.1	327.9	322.4	317.4	316.3
60°	3697.4	2019.6	424.7	365.0	370.0	317.4	318.5	319.6	314.7	313.6	313.0
62.5°	3560.2	1781.8	377.7	356.1	353.9	305.8	305.8	310.2	305.8	307.5	307.5
65°	3277.6	1478.7	335.7	339.5	329.0	293.1	292.5	300.3	293.6	300.8	301.4
67.5°	2796.0	1119.3	292.5	313.6	303.0	279.8	282.0	288.1	279.3	294.2	294.2
70°	2213.1	761.5	247.7	277.1	276.5	264.9	272.1	271.5	261.6	283.7	279.8
72.5°	1648.5	488.9	201.8	232.3	241.7	248.9	262.1	250.5	241.1	253.8	242.2
75°	1151.9	306.4	159.3	183.6	201.3	231.2	250.0	226.7	212.9	209.0	205.7
77.5°	689.6	195.8	125.5	139.9	157.1	210.1	234.5	201.8	180.8	178.6	172.0
80°	318.0	127.7	95.7	104.5	111.7	180.3	213.5	172.5	147.1	144.9	137.1
82.5°	143.8	84.1	71.3	74.7	75.2	143.2	180.3	136.6	112.3	181.9	157.6
85°	66.9	54.2	46.5	44.2	44.8	95.7	131.1	94.0	127.7	99.5	75.8
87.5°	28.8	27.7	23.8	18.8	17.1	20.5	50.3	39.3	55.9	22.1	14.9
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)