

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: P672181

Luminaire Tested: **CCP-SA-1F-840-U-T2R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672181  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1F-840-U-T2R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/ T2R distribution lens  
Light Source: (16) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

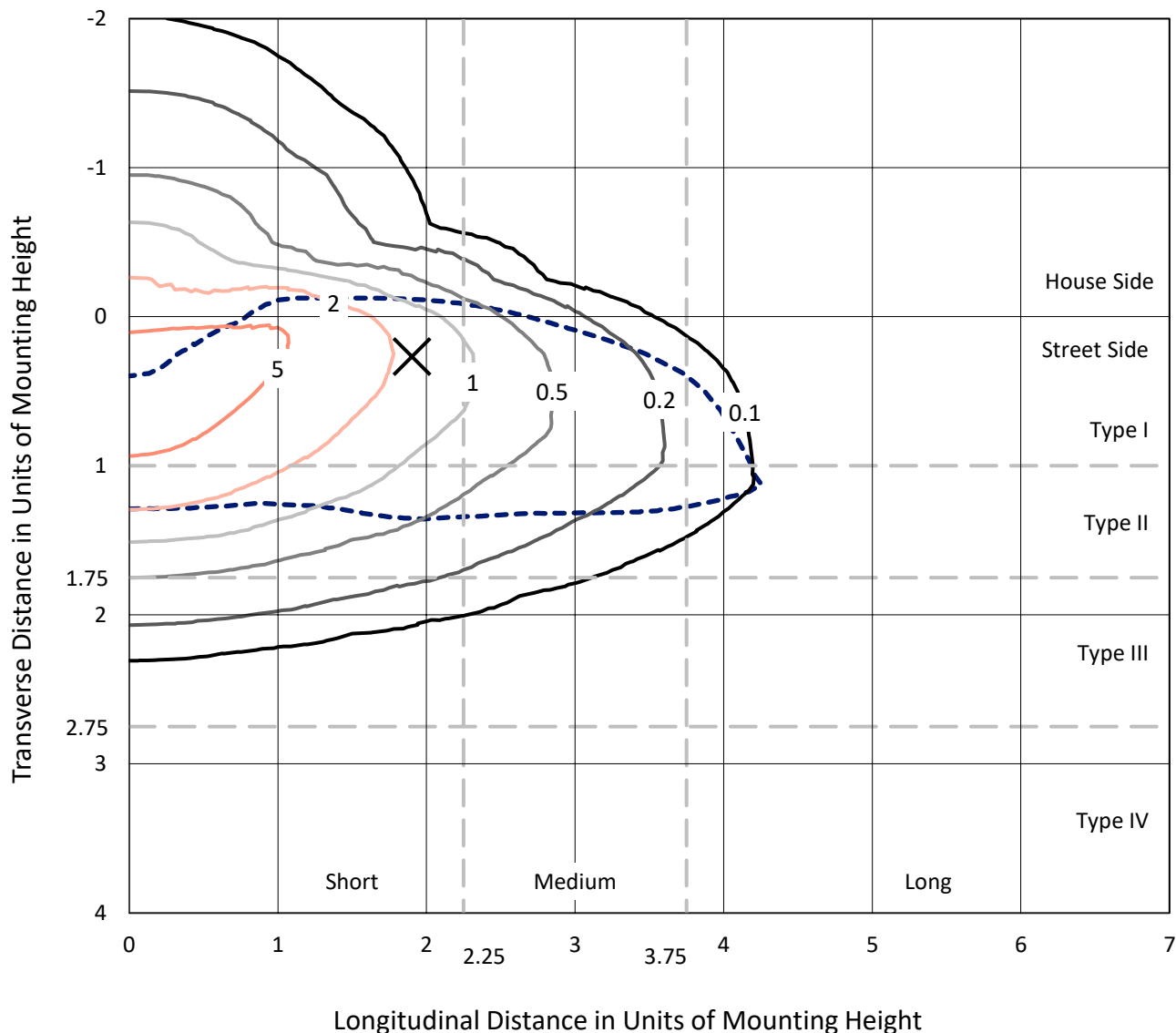
Lumens per Lamp: N/A  
Luminaire Lumens: 6493.3 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 67  
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

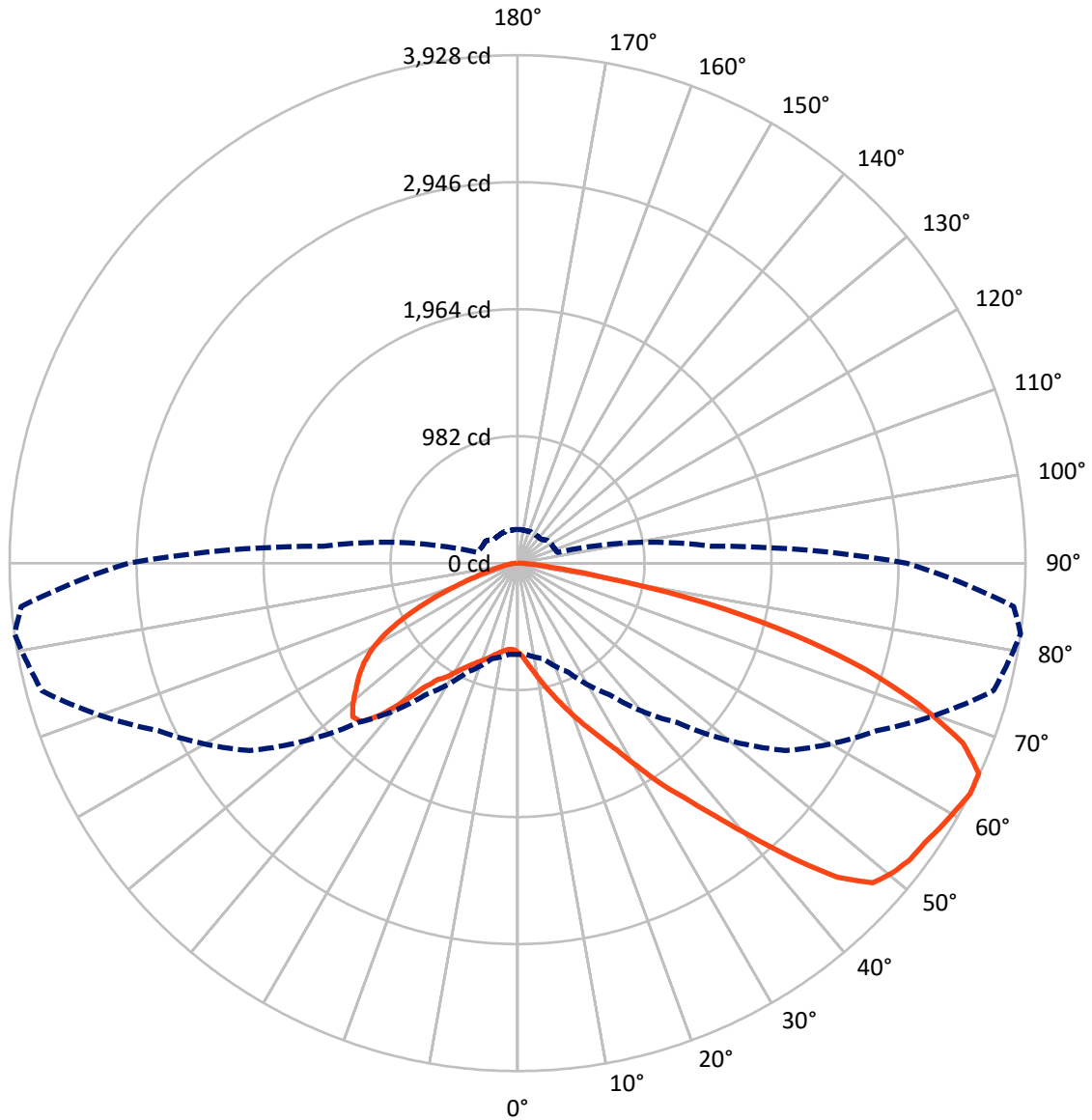
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.6 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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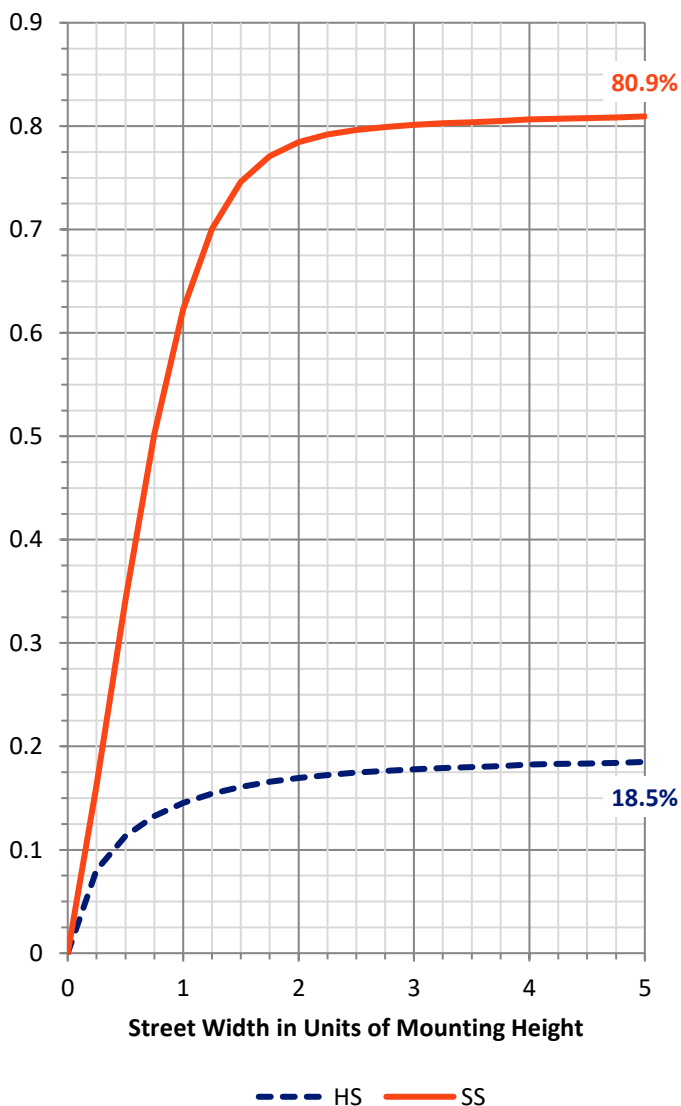
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1223.3	0.0	1223.3
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	5270.0	0.0	5270.0
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	6493.3	0.0	6493.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.4	1.2
10°-20°	288.2	4.4
20°-30°	596.9	9.2
30°-40°	1013.0	15.6
40°-50°	1379.5	21.2
50°-60°	1396.4	21.5
60°-70°	1100.5	16.9
70°-80°	542.1	8.3
80°-90°	100.3	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°	6493.3	100.0
0°-180°	6493.3	100.0



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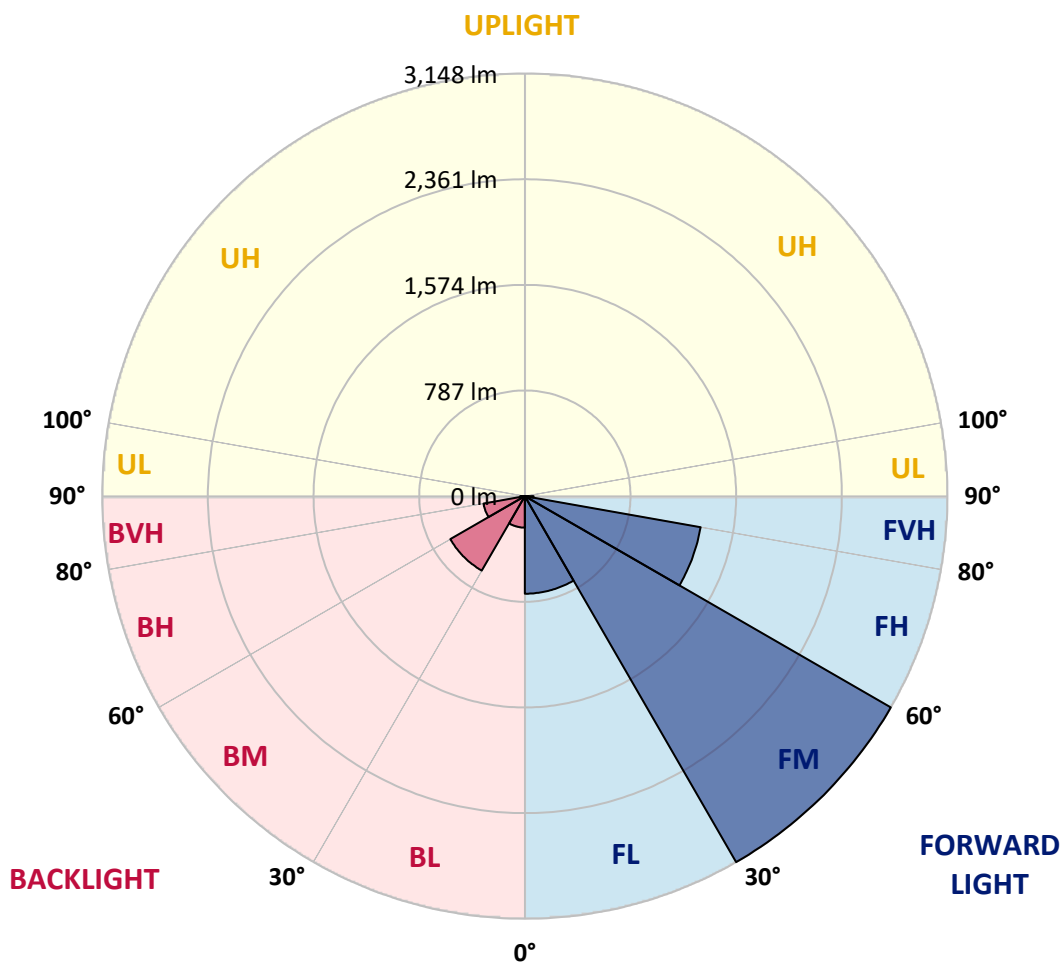
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	726.7	11.2			
FM (30°-60°)	3148.2	48.5			
FH (60°-80°)	1329.9	20.5			G1/1800
FVH (80°-90°)	65.1	1.0			G1/100
BL (0°-30°)	234.7	3.6	B1/500		
BM (30°-60°)	640.8	9.9	B1/1000		
BH (60°-80°)	312.7	4.8	B1/500		G1/500
BVH (80°-90°)	35.1	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°	690.5	690.5	690.5	690.5	690.5	690.5	690.5	690.5	690.5	690.5	690.5
2.5°	919.6	905.6	898.1	889.7	866.3	851.3	823.3	790.6	752.7	720.4	714.4
5°	1113.6	1099.6	1101.5	1080.9	1046.8	1015.0	962.6	900.9	828.9	773.7	754.6
7.5°	1250.6	1235.2	1238.9	1230.5	1202.9	1167.8	1101.5	1022.0	916.8	835.0	804.1
10°	1342.2	1344.1	1346.9	1343.6	1325.9	1301.1	1235.2	1147.3	1016.4	907.4	865.4
12.5°	1446.0	1451.2	1450.2	1451.6	1442.3	1422.6	1358.1	1275.4	1122.5	985.5	930.8
15°	1578.3	1573.2	1577.4	1583.5	1573.2	1551.7	1494.6	1396.5	1233.8	1072.5	1004.7
17.5°	1723.3	1712.5	1723.7	1717.6	1710.2	1696.1	1633.5	1528.8	1348.8	1166.4	1087.0
20°	1848.5	1841.5	1847.6	1848.5	1849.9	1847.1	1782.6	1671.4	1469.4	1268.8	1175.8
22.5°	1989.3	1986.0	1985.1	1985.5	1986.9	1990.2	1946.3	1827.5	1603.1	1376.4	1271.6
25°	2186.1	2182.8	2161.3	2137.5	2123.4	2133.7	2110.8	2004.7	1750.8	1497.0	1376.8
27.5°	2406.8	2401.6	2373.1	2312.8	2267.9	2275.4	2273.0	2200.1	1921.0	1635.4	1503.1
30°	2635.8	2623.2	2583.9	2499.3	2428.7	2415.6	2422.2	2397.9	2135.1	1819.1	1678.8
32.5°	2840.1	2816.8	2764.9	2679.3	2595.2	2557.3	2558.2	2569.0	2368.0	2033.2	1863.0
35°	2965.0	2949.5	2910.7	2824.2	2730.3	2705.0	2698.0	2751.8	2581.6	2231.4	2028.1
37.5°	3032.3	3017.3	2975.7	2906.1	2835.0	2824.7	2837.8	2921.0	2824.2	2478.8	2252.5
40°	3020.1	3004.2	2977.1	2928.5	2881.7	2889.7	2947.7	3076.2	3089.3	2774.7	2572.3
42.5°	2920.1	2903.3	2900.9	2897.6	2875.7	2910.7	3015.5	3189.8	3332.9	3116.4	2959.4
45°	2743.4	2733.1	2745.2	2801.3	2828.9	2896.7	3047.2	3245.0	3547.0	3463.8	3325.4
47.5°	2519.4	2513.3	2540.9	2629.8	2719.1	2853.7	3068.3	3260.0	3694.3	3694.3	3565.3
50°	2268.8	2266.5	2303.0	2432.0	2571.8	2774.7	3065.9	3274.0	3758.8	3762.1	3649.9
52.5°	1919.1	1931.3	2028.5	2198.7	2388.5	2650.8	3033.2	3313.3	3795.3	3802.8	3706.4
55°	1516.1	1527.8	1674.6	1903.7	2146.8	2500.3	2935.5	3301.6	3802.3	3819.1	3738.7
57.5°	1210.4	1212.7	1304.4	1576.5	1877.5	2307.6	2822.8	3224.0	3781.7	3855.1	3788.3
60°	947.2	954.7	1015.9	1231.4	1565.2	2059.4	2697.1	3147.3	3793.4	3889.2	3833.1
62.5°	705.5	707.3	764.4	931.3	1243.6	1742.9	2526.4	3065.5	3809.8	3927.6	3851.4
65°	459.6	459.1	514.3	664.8	928.9	1401.1	2258.6	2937.4	3811.2	3919.2	3767.7
67.5°	292.2	294.1	317.9	412.8	621.8	1057.5	1893.9	2699.4	3744.8	3715.3	3462.9
70°	237.0	237.5	245.0	269.8	378.7	722.8	1423.6	2327.3	3534.9	3309.1	3009.8
72.5°	211.3	211.8	215.5	218.3	252.5	434.3	934.1	1889.7	3161.8	2820.5	2497.0
75°	189.8	189.8	192.1	189.3	207.1	272.6	530.2	1420.8	2604.0	2196.4	1886.4
77.5°	166.4	166.0	166.0	164.6	179.1	199.2	265.5	991.6	1875.7	1497.9	1223.5
80°	141.2	140.3	141.7	140.7	154.7	151.0	154.7	612.0	1016.8	686.8	520.8
82.5°	109.9	109.9	114.1	115.0	127.6	109.4	108.9	290.3	386.2	256.7	192.1
85°	57.5	64.5	87.0	90.7	96.3	68.7	79.9	135.6	154.7	98.2	70.1
87.5°	17.3	18.2	53.3	59.8	59.4	34.6	49.1	65.5	72.5	43.5	28.5
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°	690.5	690.5	690.5	690.5	690.5	690.5	690.5	690.5	690.5	690.5	690.5
2.5°	698.9	682.6	648.0	617.1	593.7	571.3	555.9	547.9	537.6	539.0	535.8
5°	720.4	686.8	625.5	576.0	542.8	517.5	502.1	494.2	486.7	482.9	485.7
7.5°	752.7	700.3	614.8	554.9	520.3	498.8	490.4	488.1	486.2	484.8	487.1
10°	794.3	724.2	612.9	547.5	515.7	502.6	499.3	497.9	496.0	494.2	495.6
12.5°	836.8	750.4	619.5	549.3	523.1	513.3	509.1	507.3	502.6	500.2	500.7
15°	890.1	782.1	628.3	556.8	533.0	520.3	514.7	509.6	502.1	498.8	500.2
17.5°	947.2	820.0	640.5	563.8	536.7	521.3	510.1	502.6	495.1	490.4	490.9
20°	1011.7	857.4	651.2	566.2	534.8	513.3	499.8	490.9	481.1	475.9	474.5
22.5°	1078.6	896.7	659.7	564.3	524.5	499.8	484.3	473.6	461.9	454.0	454.4
25°	1159.9	950.0	666.7	557.7	511.0	482.0	464.7	451.1	439.0	431.5	432.0
27.5°	1257.6	1010.3	675.1	547.5	494.6	462.8	442.7	429.2	417.5	410.5	409.5
30°	1388.0	1088.8	684.4	534.8	474.1	441.8	422.2	408.1	396.9	390.4	390.4
32.5°	1534.8	1184.7	691.0	519.9	451.1	419.4	401.6	390.4	382.0	373.1	372.1
35°	1662.5	1259.0	711.1	508.2	431.0	398.3	386.2	378.2	365.6	357.2	355.8
37.5°	1849.9	1389.9	770.5	504.9	406.7	382.0	379.6	364.7	350.2	334.3	332.9
40°	2152.0	1616.7	839.7	489.0	381.5	373.1	370.7	350.6	316.5	306.7	304.8
42.5°	2536.3	1889.7	847.1	442.7	363.7	365.6	358.6	319.3	304.4	296.9	295.0
45°	2883.2	2111.3	804.6	395.5	350.6	354.4	339.9	307.6	299.2	292.2	290.3
47.5°	3078.1	2179.5	724.2	360.0	340.8	344.6	310.0	302.0	293.6	286.6	284.7
50°	3132.8	2120.2	630.7	339.4	333.3	334.7	302.0	297.3	289.9	284.2	281.4
52.5°	3143.6	2031.3	544.2	327.3	327.7	315.1	295.0	291.3	286.6	277.7	274.4
55°	3148.2	1951.4	466.6	319.8	324.0	289.9	287.5	284.7	281.0	271.6	269.8
57.5°	3160.4	1849.0	405.8	314.2	319.3	278.2	279.1	277.2	272.6	268.4	267.4
60°	3125.8	1707.4	359.0	308.6	312.8	268.4	269.3	270.2	266.0	265.1	264.6
62.5°	3009.8	1506.3	319.3	301.1	299.2	258.5	258.5	262.3	258.5	259.9	259.9
65°	2770.9	1250.1	283.8	287.1	278.2	247.8	247.3	253.9	248.2	254.3	254.8
67.5°	2363.7	946.2	247.3	265.1	256.2	236.6	238.4	243.6	236.1	248.7	248.7
70°	1871.0	643.8	209.4	234.2	233.8	223.9	230.0	229.5	221.1	239.8	236.6
72.5°	1393.7	413.3	170.6	196.4	204.3	210.4	221.6	211.8	203.8	214.6	204.8
75°	973.8	259.0	134.6	155.2	170.2	195.4	211.3	191.7	180.0	176.7	173.9
77.5°	583.0	165.5	106.1	118.3	132.8	177.7	198.2	170.6	152.9	151.0	145.4
80°	268.8	108.0	80.9	88.4	94.4	152.4	180.5	145.9	124.4	122.5	115.9
82.5°	121.6	71.1	60.3	63.1	63.6	121.1	152.4	115.5	94.9	153.8	133.2
85°	56.6	45.8	39.3	37.4	37.9	80.9	110.8	79.5	108.0	84.2	64.0
87.5°	24.3	23.4	20.1	15.9	14.5	17.3	42.5	33.2	47.2	18.7	12.6
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)