

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: P553669

Luminaire Tested: **ARB-B3-LED-D1-T3**

Issue Date: 7/12/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P553669  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34666)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/12/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ARB-B3-LED-D1-T3  
Description: ARBOR OUTDOOR ARCHITECTURAL POST TOP  
70 CRI, 4000K LEDS AND TYPE III OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8451 lumens  
Efficiency: N/A  
Efficacy: 85.4 lumens/watt  
Luminous Opening: Circular (Dia: 1.62' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

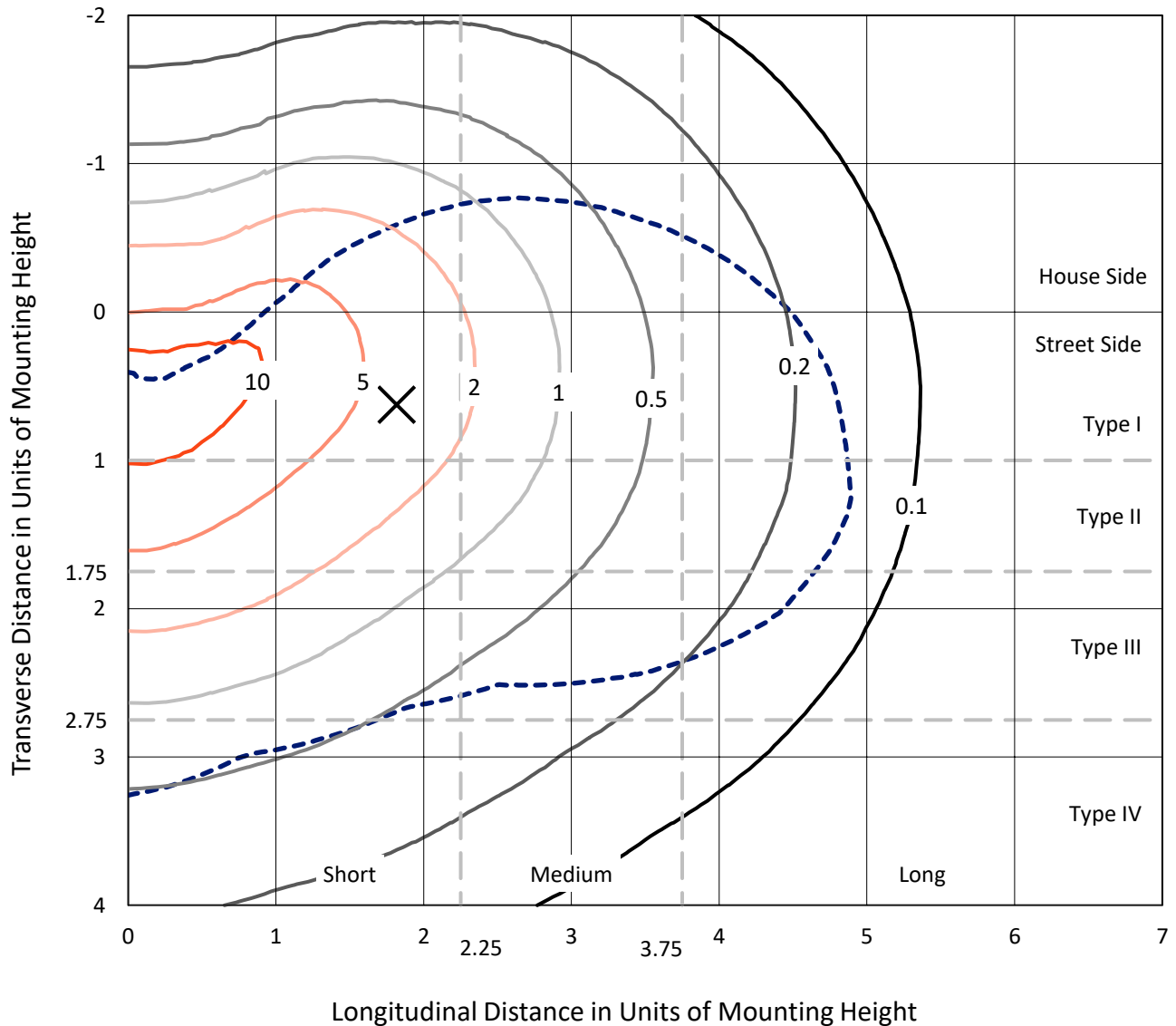
Input Watts (W): 99  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

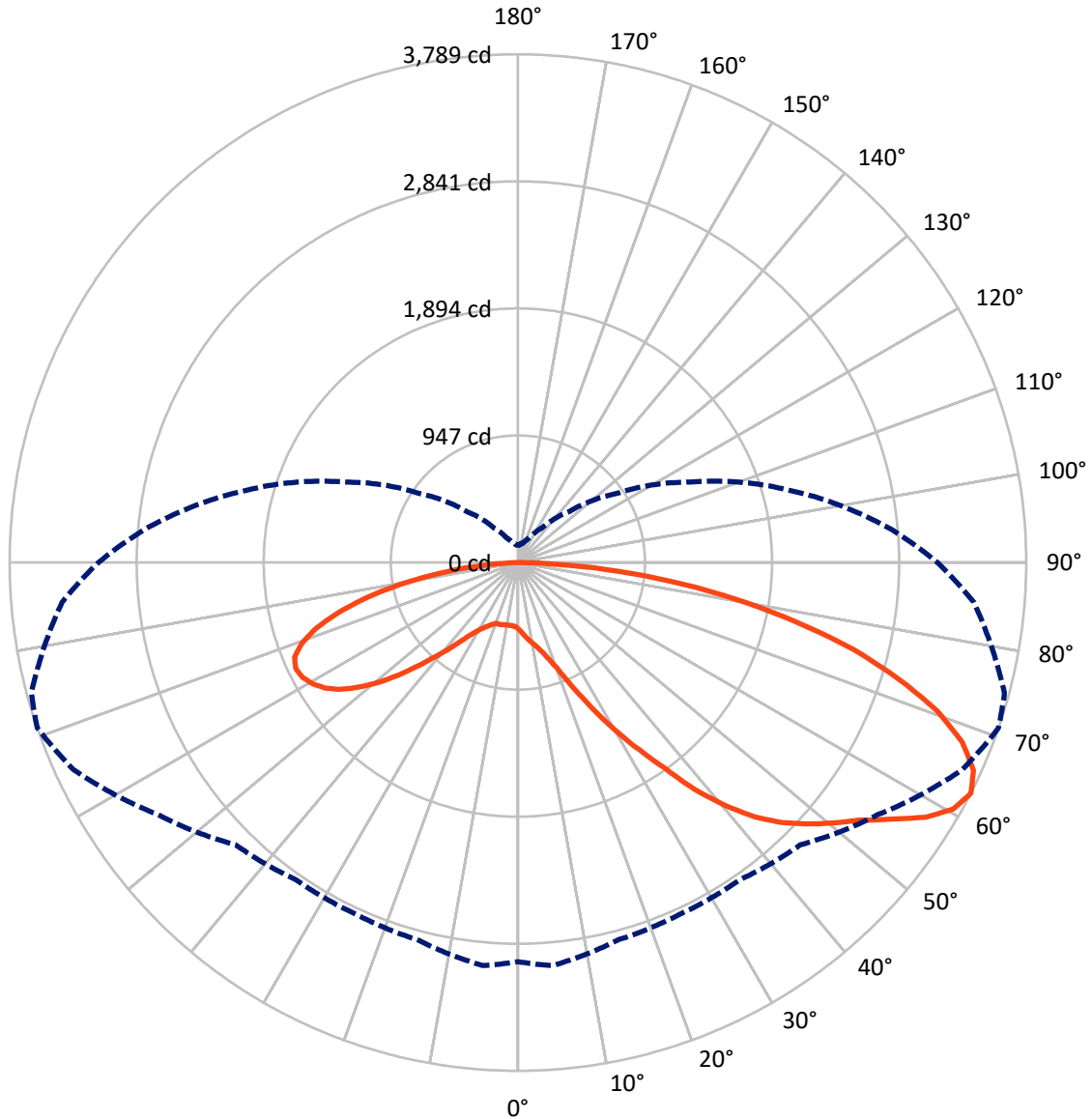
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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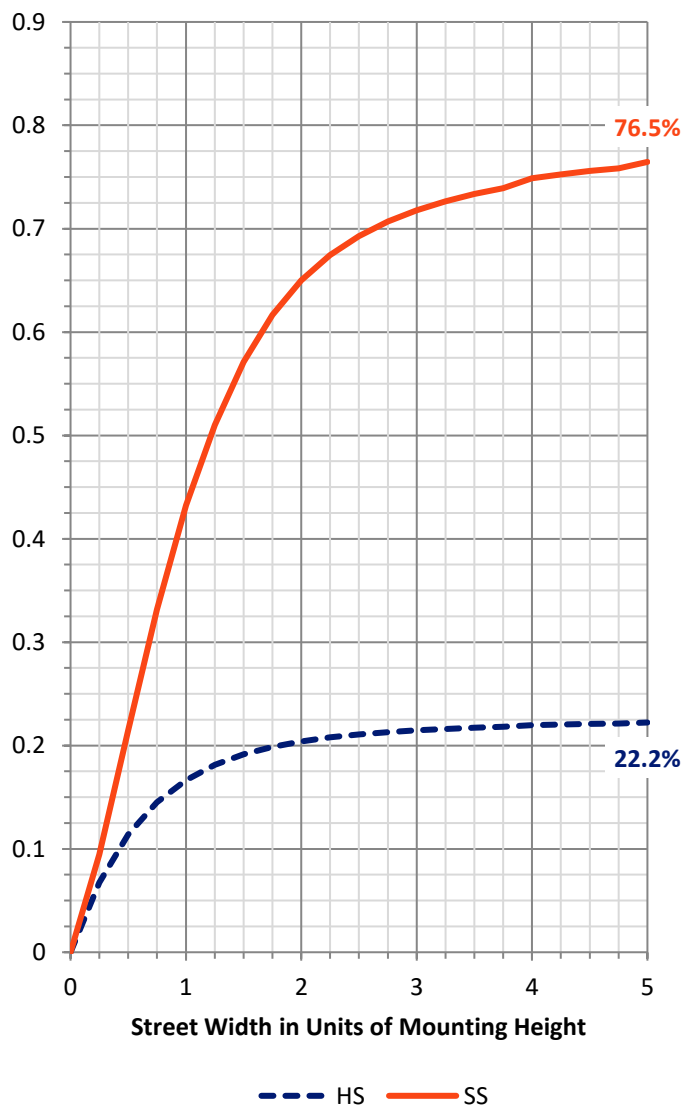
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1901.0	0.0	1901.0
	% Fixture	22.5	0.0	22.5
<b>Street Side</b>	Lumens	6550.0	0.0	6550.0
	% Fixture	77.5	0.0	77.5
<b>Total</b>	Lumens	8451.0	0.0	8451.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.1	0.6
10°-20°	190.8	2.3
20°-30°	447.8	5.3
30°-40°	850.5	10.1
40°-50°	1331.0	15.7
50°-60°	1820.6	21.5
60°-70°	1953.8	23.1
70°-80°	1402.9	16.6
80°-90°	402.5	4.8
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°	8451.0	100.0
0°-180°	8451.0	100.0

**Coefficient of Utilization**



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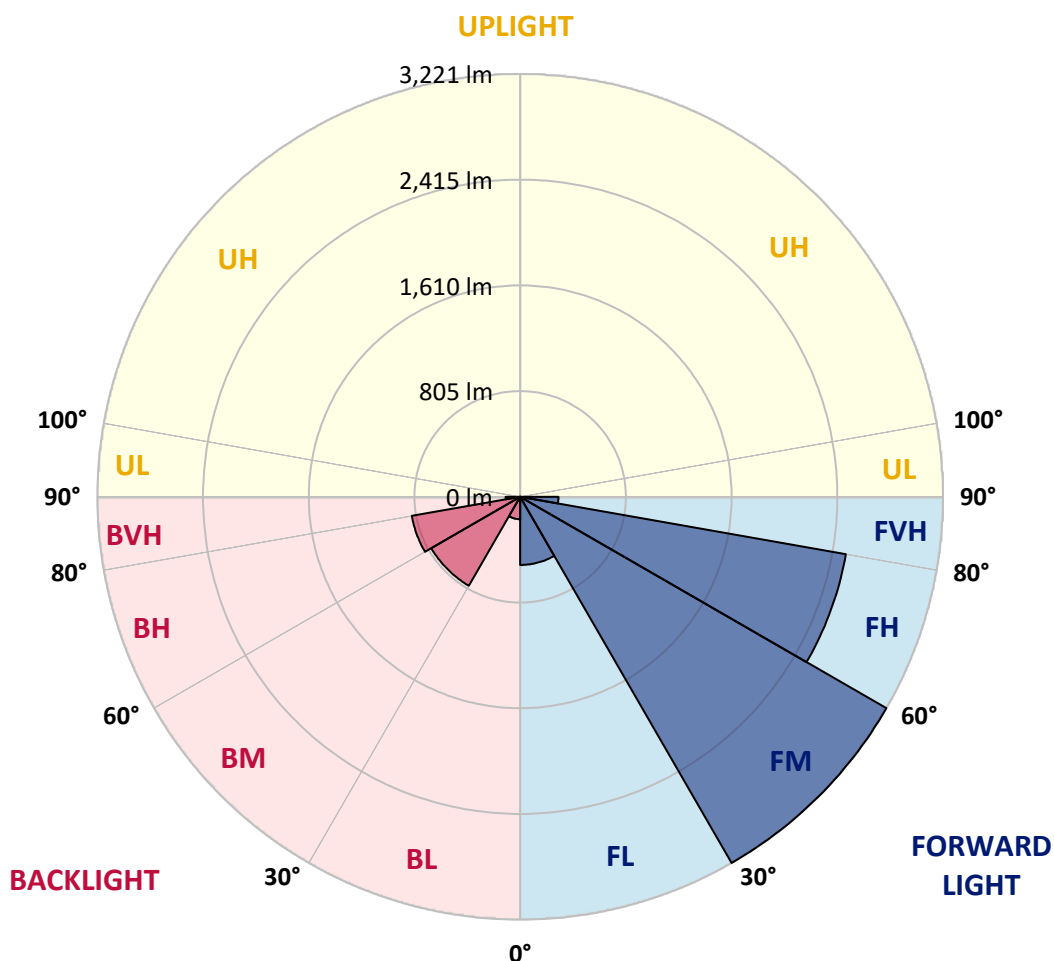
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	519.0	6.1			
FM	(30°-60°)	3220.6	38.1			
FH	(60°-80°)	2519.0	29.8			G2/5000
FVH	(80°-90°)	291.4	3.4			G3/500
BL	(0°-30°)	170.7	2.0	B1/500		
BM	(30°-60°)	781.5	9.2	B1/1000		
BH	(60°-80°)	837.7	9.9	B2/1000		G2/1000
BVH	(80°-90°)	111.1	1.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	494.9	494.9	494.9	494.9	494.9	494.9	494.9	494.9	494.9	494.9	494.9
2.5°	573.4	571.4	570.4	565.4	558.3	547.3	539.2	524.1	519.1	512.1	502.0
5°	646.9	644.8	643.8	634.8	621.7	606.6	587.5	566.4	550.3	543.2	519.1
7.5°	730.4	725.3	715.3	699.2	678.0	652.9	628.7	600.6	581.5	568.4	536.2
10°	833.0	827.9	809.8	781.7	747.5	708.2	668.0	633.8	613.7	598.6	555.3
12.5°	936.6	931.5	906.4	871.2	823.9	769.6	715.3	671.0	649.9	630.8	579.5
15°	1179.0	1177.0	1093.5	1008.0	927.5	860.1	795.7	729.3	695.1	673.0	610.6
17.5°	1600.5	1571.4	1438.6	1255.5	1100.6	988.9	906.4	807.8	760.5	726.3	643.8
20°	1807.8	1792.7	1685.0	1539.2	1357.1	1183.0	1062.3	938.6	843.0	790.7	676.0
22.5°	1935.5	1925.5	1815.8	1711.2	1593.5	1426.5	1244.4	1089.5	971.8	889.3	737.4
25°	2009.0	2004.9	1932.5	1843.0	1747.4	1645.8	1474.8	1271.6	1113.6	1014.0	813.8
27.5°	2046.2	2049.2	1987.8	1934.5	1900.3	1833.9	1706.2	1445.6	1285.7	1165.9	912.4
30°	2200.1	2200.1	2128.7	2043.2	2042.2	2020.0	1914.4	1632.7	1471.8	1345.0	1049.3
32.5°	2454.6	2481.8	2362.1	2225.3	2197.1	2203.1	2110.6	1847.0	1665.9	1551.2	1225.3
35°	2773.5	2790.6	2635.7	2453.6	2393.3	2354.0	2289.6	2072.3	1879.2	1760.5	1423.5
37.5°	2968.7	2992.8	2864.1	2690.0	2579.4	2510.0	2458.6	2294.7	2149.8	2027.1	1660.9
40°	3128.6	3149.8	3018.0	2829.9	2734.3	2642.7	2609.5	2501.9	2381.2	2271.5	1887.2
42.5°	3162.8	3190.0	3037.1	2907.3	2799.7	2737.3	2715.2	2672.9	2592.4	2480.8	2107.6
45°	2902.3	2951.6	2968.7	2886.2	2829.9	2804.7	2803.7	2822.8	2763.5	2669.9	2324.9
47.5°	2875.1	2929.5	2893.2	2912.4	2848.0	2840.9	2866.1	2948.6	2911.3	2848.0	2516.0
50°	3186.0	3206.1	3010.9	3017.0	2928.4	2931.5	2958.6	3062.2	3050.2	3007.9	2687.0
52.5°	3341.9	3370.1	3106.5	3037.1	3037.1	3053.2	3087.4	3195.0	3190.0	3176.9	2848.0
55°	3580.3	3601.5	3320.8	3121.6	3107.5	3144.7	3237.3	3359.0	3375.1	3354.0	3029.0
57.5°	3446.5	3486.8	3308.7	3158.8	3110.5	3155.8	3343.9	3532.0	3581.3	3533.0	3205.1
60°	3234.3	3268.5	3138.7	3057.2	3037.1	3101.5	3353.0	3646.7	3729.2	3681.9	3347.9
62.5°	2975.7	3015.0	2909.3	2885.2	2886.2	2975.7	3275.5	3653.8	3788.6	3754.4	3411.3
65°	2663.9	2710.1	2651.8	2676.9	2690.0	2822.8	3125.6	3574.3	3731.2	3723.2	3397.2
67.5°	2406.3	2432.5	2378.2	2436.5	2454.6	2607.5	2934.5	3414.3	3571.3	3572.3	3286.6
70°	2163.9	2182.0	2114.6	2171.9	2204.1	2366.1	2711.2	3170.9	3315.8	3326.8	3086.4
72.5°	1932.5	1907.4	1833.9	1881.2	1935.5	2099.5	2450.6	2859.0	2966.7	2988.8	2801.7
75°	1657.9	1621.7	1535.1	1588.5	1637.8	1796.7	2136.7	2468.7	2583.4	2580.4	2438.5
77.5°	1374.2	1333.9	1254.5	1288.7	1340.0	1484.8	1776.6	2035.1	2113.6	2162.9	2010.0
80°	1037.2	1019.1	958.7	977.8	1015.0	1140.8	1392.3	1585.4	1640.8	1642.8	1543.2
82.5°	734.4	712.2	677.0	673.0	714.3	811.8	997.9	1116.7	1145.8	1159.9	1047.2
85°	394.3	401.4	394.3	360.1	406.4	473.8	578.4	649.9	661.9	683.1	593.5
87.5°	108.6	95.6	106.6	102.6	110.7	125.7	151.9	187.1	190.1	194.2	165.0
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°	494.9	494.9	494.9	494.9	494.9	494.9	494.9	494.9	494.9	494.9	494.9
2.5°	496.0	490.9	480.9	473.8	467.8	462.8	460.7	458.7	456.7	455.7	456.7
5°	508.0	498.0	479.9	464.8	453.7	443.6	437.6	431.6	427.5	426.5	426.5
7.5°	519.1	505.0	479.9	458.7	441.6	426.5	413.5	404.4	397.4	394.3	392.3
10°	534.2	516.1	482.9	455.7	430.6	409.4	393.3	381.3	373.2	371.2	367.2
12.5°	552.3	529.2	487.9	453.7	422.5	396.4	377.2	363.2	354.1	348.1	346.1
15°	576.4	545.2	494.9	451.7	415.5	386.3	364.2	345.1	331.0	321.9	321.9
17.5°	599.6	562.4	503.0	449.7	409.4	375.2	348.1	326.9	311.9	304.8	302.8
20°	619.7	575.4	505.0	444.6	400.4	362.2	331.0	309.8	295.8	287.7	287.7
22.5°	664.0	610.6	524.1	452.7	399.4	353.1	320.9	296.8	279.7	270.6	269.6
25°	725.3	653.9	549.3	463.8	399.4	349.1	311.9	282.7	263.6	255.5	254.5
27.5°	808.8	716.3	580.5	478.9	401.4	345.1	300.8	270.6	250.5	240.4	240.4
30°	915.5	802.8	622.7	497.0	405.4	340.0	290.7	256.5	233.4	221.3	221.3
32.5°	1051.3	899.4	680.1	519.1	410.4	336.0	281.7	242.4	218.3	206.2	205.2
35°	1237.4	1051.3	757.5	555.3	420.5	332.0	271.6	230.4	206.2	195.2	194.2
37.5°	1441.6	1216.2	863.1	602.6	441.6	334.0	267.6	224.3	199.2	188.1	187.1
40°	1665.9	1408.4	985.9	664.0	468.8	344.0	268.6	224.3	198.2	187.1	186.1
42.5°	1876.2	1616.6	1114.6	740.4	505.0	363.2	275.6	223.3	196.2	183.1	182.1
45°	2070.3	1800.7	1265.5	841.0	552.3	380.3	279.7	219.3	191.1	179.1	177.1
47.5°	2259.5	1981.8	1432.5	946.6	605.6	398.4	281.7	217.3	187.1	175.0	174.0
50°	2447.6	2178.0	1597.5	1053.3	659.9	420.5	284.7	217.3	181.1	170.0	168.0
52.5°	2616.6	2348.0	1749.4	1149.9	716.3	448.7	292.7	215.3	176.0	164.0	163.0
55°	2772.5	2492.9	1885.2	1240.4	775.6	477.8	303.8	210.3	172.0	157.9	156.9
57.5°	2926.4	2613.6	1980.8	1318.9	827.9	504.0	310.9	207.2	167.0	149.9	147.9
60°	3054.2	2731.3	2044.2	1377.2	869.2	524.1	314.9	206.2	160.0	140.8	139.8
62.5°	3126.6	2798.7	2088.4	1417.4	895.3	536.2	317.9	203.2	151.9	132.8	128.8
65°	3118.6	2801.7	2104.5	1430.5	905.4	538.2	314.9	195.2	146.9	121.7	117.7
67.5°	3025.0	2732.3	2071.3	1414.4	892.3	527.1	304.8	182.1	137.8	108.6	107.6
70°	2857.0	2581.4	1962.7	1352.1	858.1	499.0	286.7	168.0	125.7	98.6	95.6
72.5°	2589.4	2347.0	1792.7	1255.5	790.7	457.7	263.6	153.9	112.7	92.6	87.5
75°	2268.5	2048.2	1561.3	1107.6	705.2	405.4	233.4	137.8	97.6	85.5	81.5
77.5°	1874.2	1702.1	1295.7	926.5	594.5	349.1	199.2	118.7	81.5	77.5	76.5
80°	1437.6	1287.7	995.9	721.3	469.8	278.7	163.0	101.6	67.4	66.4	68.4
82.5°	967.8	876.2	675.0	508.0	340.0	201.2	122.7	78.5	55.3	55.3	56.3
85°	532.2	481.9	393.3	280.7	200.2	126.8	82.5	57.3	44.3	43.3	44.3
87.5°	148.9	133.8	113.7	87.5	73.4	51.3	41.2	35.2	31.2	31.2	31.2
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)