

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: P553672

Luminaire Tested: **ARB-B3-LED-D1-T4**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553672
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34663)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ARB-B3-LED-D1-T4
Description: ARBOR OUTDOOR ARCHITECTURAL POST TOP
70 CRI, 4000K LEDS AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8740 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Circular (Dia: 1.62' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

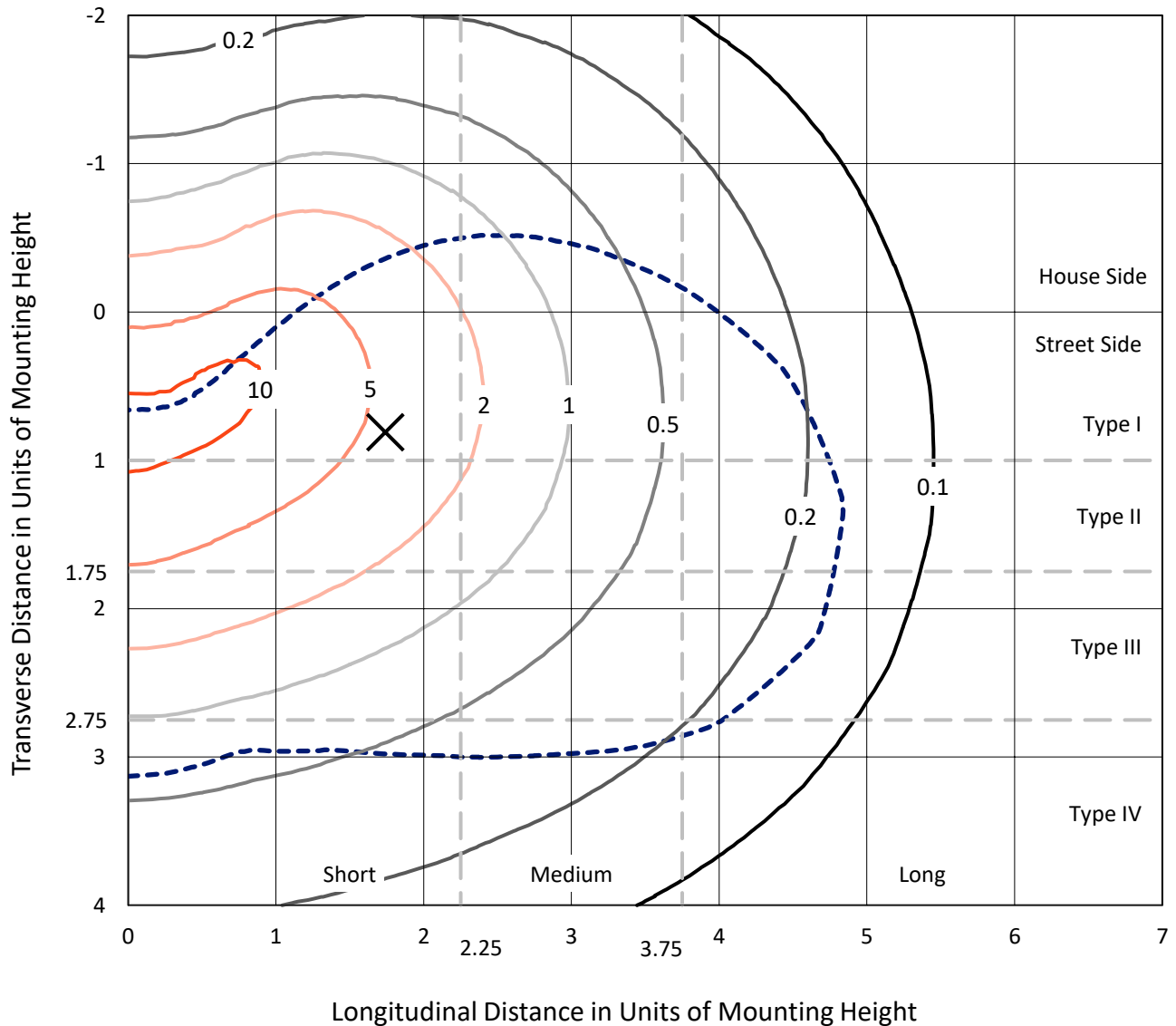
Input Watts (W): 99
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

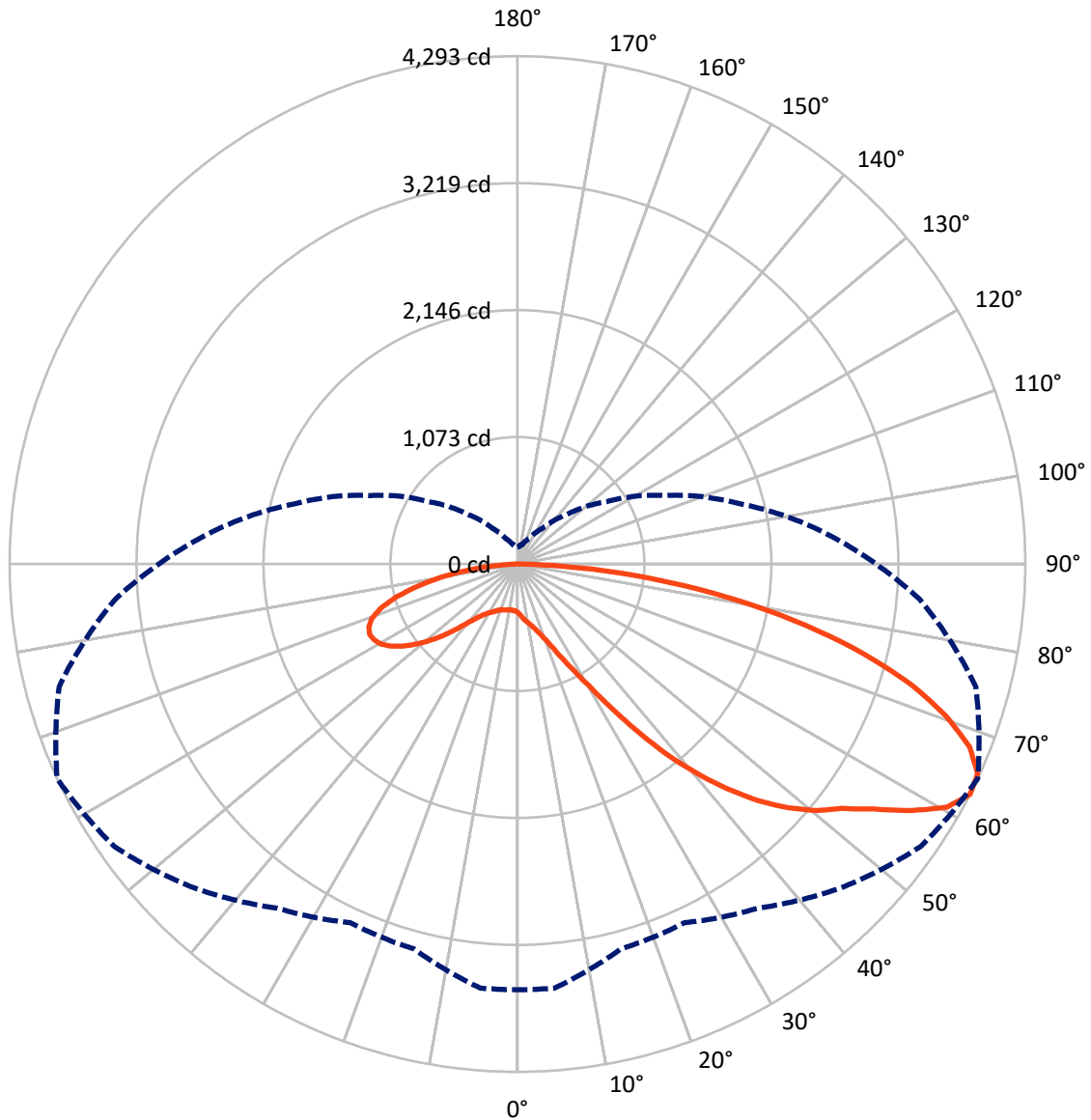
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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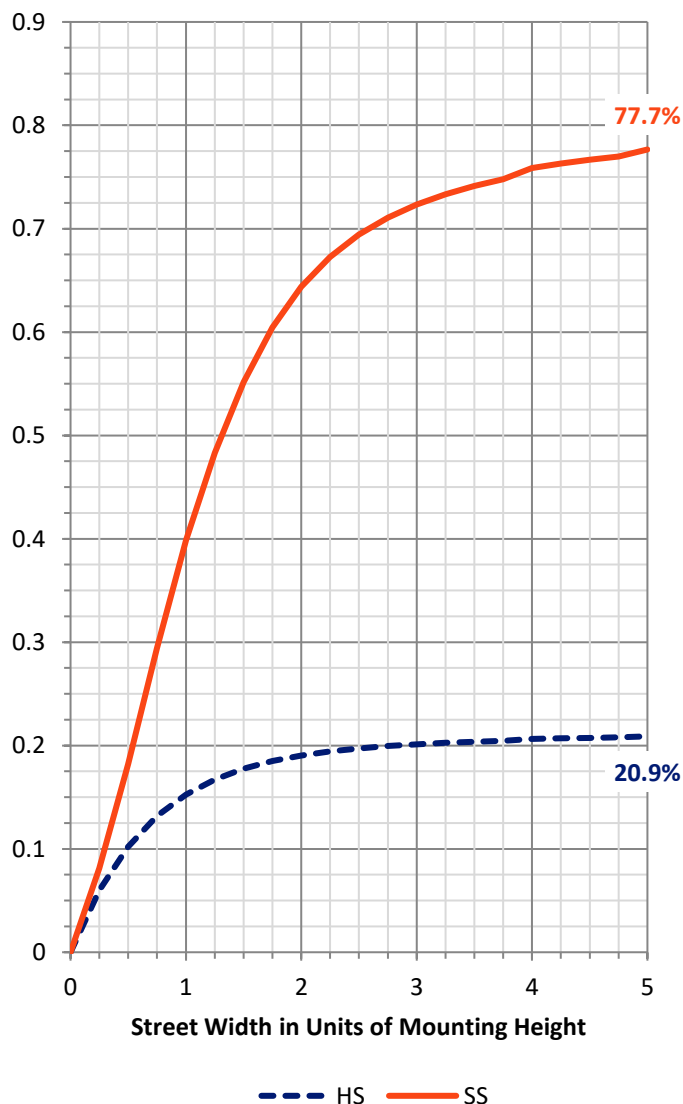
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1847.5	0.0	1847.5
	% Fixture	21.1	0.0	21.1
Street Side	Lumens	6892.5	0.0	6892.5
	% Fixture	78.9	0.0	78.9
Total	Lumens	8740.0	0.0	8740.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.4	0.5
10°-20°	138.4	1.6
20°-30°	312.9	3.6
30°-40°	742.0	8.5
40°-50°	1327.9	15.2
50°-60°	1935.0	22.1
60°-70°	2204.8	25.2
70°-80°	1589.1	18.2
80°-90°	448.6	5.1
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°	8740.0	100.0
0°-180°	8740.0	100.0

Coefficient of Utilization



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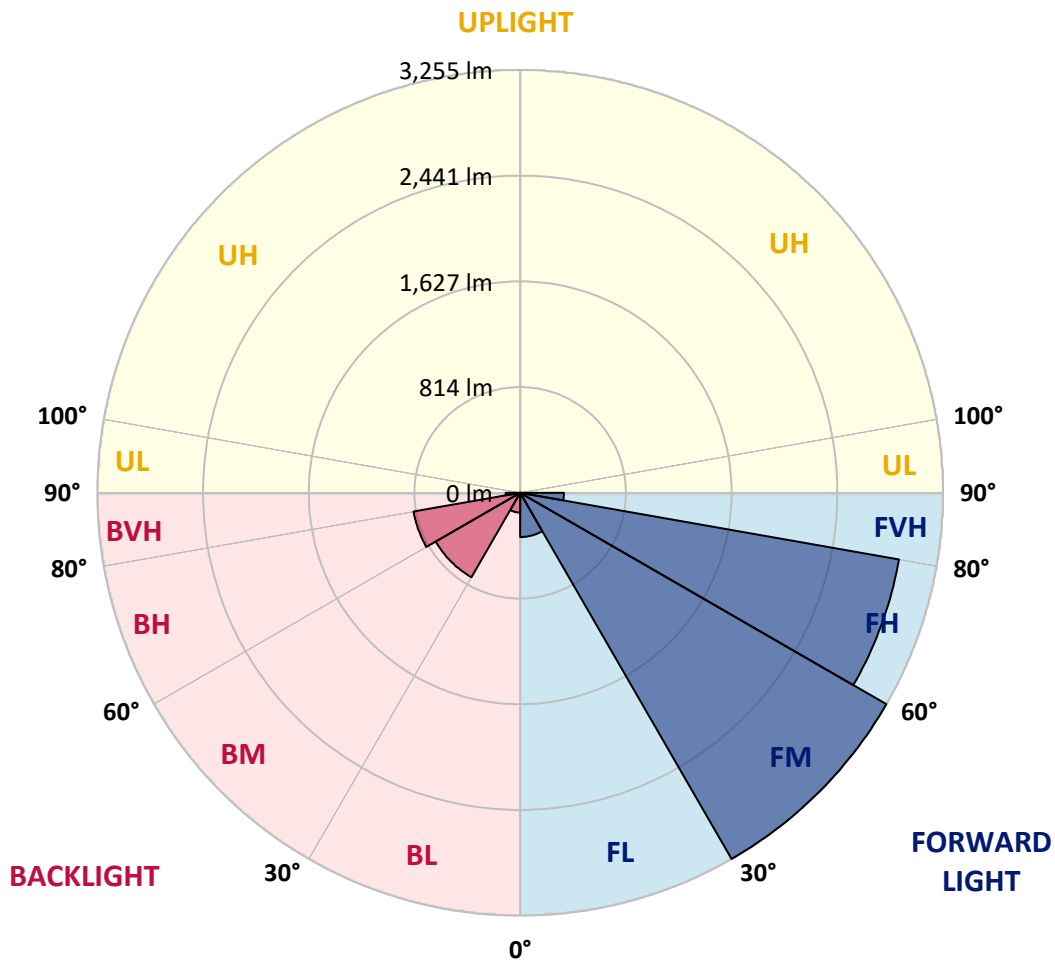
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	340.5	3.9			
FM	(30°-60°)	3254.6	37.2			
FH	(60°-80°)	2960.7	33.9			G2/5000
FVH	(80°-90°)	336.7	3.9			G3/500
BL	(0°-30°)	152.2	1.7	B1/500		
BM	(30°-60°)	750.3	8.6	B1/1000		
BH	(60°-80°)	833.2	9.5	B2/1000		G2/1000
BVH	(80°-90°)	111.9	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°	75°	85°	90°
0°	409.3	409.3	409.3	409.3	409.3	409.3	409.3	409.3	409.3	409.3	409.3
2.5°	457.6	453.6	453.6	452.6	448.6	443.5	437.5	429.4	424.4	416.4	412.3
5°	497.8	497.8	495.8	492.8	486.8	478.7	467.7	456.6	444.5	430.5	424.4
7.5°	536.1	536.1	534.0	527.0	520.0	510.9	496.8	481.7	464.6	445.5	436.5
10°	578.3	576.3	571.3	563.2	553.2	540.1	525.0	506.9	486.8	463.6	451.6
12.5°	613.5	613.5	611.5	603.4	590.4	573.3	556.2	535.0	512.9	483.8	469.7
15°	652.7	651.7	651.7	645.7	634.6	616.5	594.4	573.3	545.1	506.9	490.8
17.5°	727.1	724.1	716.1	699.0	686.9	672.8	651.7	621.5	585.3	537.1	514.9
20°	826.7	831.7	806.6	777.4	753.3	741.2	722.1	682.9	630.6	563.2	535.0
22.5°	982.6	975.6	932.3	900.1	859.9	836.8	821.7	768.4	697.0	613.5	576.3
25°	1141.5	1136.5	1091.2	1047.0	1002.7	980.6	949.4	886.0	780.4	677.9	626.6
27.5°	1295.4	1296.4	1262.2	1221.0	1190.8	1167.7	1110.3	1025.8	884.0	753.3	692.9
30°	1546.8	1569.9	1503.6	1477.4	1463.3	1440.2	1360.8	1192.8	1022.8	850.8	772.4
32.5°	2021.5	2009.4	1915.9	1809.3	1778.1	1741.9	1639.3	1438.2	1212.9	980.6	878.0
35°	2531.4	2499.2	2331.3	2179.4	2091.9	2031.6	1939.0	1713.8	1439.2	1161.6	1026.9
37.5°	2740.6	2730.6	2621.9	2503.3	2406.7	2331.3	2243.8	2030.6	1717.8	1369.8	1191.8
40°	2909.6	2906.6	2820.1	2723.5	2675.2	2590.8	2499.2	2318.2	2008.4	1601.1	1404.0
42.5°	3022.2	3023.2	2945.8	2871.4	2860.3	2808.0	2744.6	2593.8	2271.9	1833.4	1608.2
45°	3113.7	3114.7	2996.1	2964.9	2995.1	2998.1	2962.9	2853.3	2533.4	2096.9	1833.4
47.5°	3190.2	3186.2	3034.3	2996.1	3075.5	3158.0	3144.9	3078.5	2792.9	2331.3	2053.7
50°	3226.4	3215.3	3052.4	3019.2	3114.7	3243.5	3277.7	3275.7	3027.2	2539.5	2262.9
52.5°	3377.2	3344.1	3160.0	3128.8	3213.3	3369.2	3428.5	3430.5	3244.5	2740.6	2451.0
55°	3906.3	3895.2	3579.4	3416.5	3459.7	3630.7	3675.9	3655.8	3464.7	2927.7	2627.0
57.5°	3955.5	3938.4	3703.1	3577.4	3657.8	3845.9	3953.5	3931.4	3702.1	3120.8	2765.8
60°	3829.8	3797.6	3581.4	3523.1	3672.9	3925.4	4131.5	4171.8	3881.1	3303.8	2934.7
62.5°	3598.5	3597.5	3369.2	3344.1	3549.2	3869.0	4161.7	4292.5	4010.9	3411.4	3030.3
65°	3289.7	3280.7	3086.6	3110.7	3344.1	3703.1	4057.1	4274.4	4040.0	3429.5	3055.4
67.5°	2786.9	2812.0	2717.5	2842.2	3079.5	3466.8	3857.0	4119.5	3934.4	3347.1	2996.1
70°	2415.8	2440.9	2380.6	2518.3	2777.8	3166.0	3592.5	3838.9	3694.0	3171.1	2846.2
72.5°	2114.0	2104.0	2055.7	2198.5	2444.9	2809.0	3228.4	3479.8	3353.1	2894.5	2605.8
75°	1787.2	1768.1	1720.8	1842.5	2092.9	2412.7	2778.8	3018.2	2912.6	2547.5	2285.0
77.5°	1446.2	1433.2	1385.9	1479.4	1674.5	1997.4	2328.3	2492.2	2425.8	2113.0	1895.8
80°	1126.4	1099.3	1048.0	1119.4	1283.3	1528.7	1779.1	1912.9	1843.5	1609.2	1447.2
82.5°	744.2	768.4	746.3	749.3	896.1	1076.1	1272.2	1321.5	1287.3	1104.3	1001.7
85°	441.5	430.5	414.4	418.4	494.8	620.5	719.1	751.3	720.1	606.5	558.2
87.5°	94.5	99.6	103.6	92.5	127.7	169.0	190.1	194.1	197.1	170.0	149.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	409.3	409.3	409.3	409.3	409.3	409.3	409.3	409.3	409.3	409.3
2.5°	409.3	403.3	398.3	393.2	389.2	387.2	385.2	384.2	383.2	384.2
5°	418.4	406.3	395.3	385.2	377.1	371.1	365.1	362.1	359.0	359.0
7.5°	427.4	409.3	392.2	377.1	364.1	352.0	344.0	338.9	334.9	334.9
10°	438.5	415.4	392.2	371.1	353.0	338.9	325.9	318.8	313.8	312.8
12.5°	454.6	424.4	396.3	370.1	347.0	327.9	312.8	301.7	295.7	294.7
15°	472.7	435.5	400.3	370.1	341.9	315.8	297.7	284.6	277.6	275.6
17.5°	490.8	446.5	406.3	369.1	334.9	305.7	284.6	269.5	262.5	260.5
20°	508.9	456.6	408.3	365.1	326.9	295.7	271.5	256.5	247.4	247.4
22.5°	542.1	477.7	421.4	368.1	324.9	289.7	261.5	245.4	237.4	235.3
25°	586.3	504.9	436.5	374.1	323.8	283.6	253.4	235.3	227.3	225.3
27.5°	638.6	537.1	453.6	381.2	323.8	278.6	246.4	227.3	217.2	217.2
30°	703.0	575.3	471.7	389.2	322.8	273.6	239.4	219.2	210.2	209.2
32.5°	785.5	626.6	493.8	396.3	322.8	269.5	233.3	212.2	202.2	201.1
35°	899.1	686.9	526.0	409.3	324.9	268.5	230.3	207.2	196.1	195.1
37.5°	1037.9	772.4	570.2	434.5	334.9	271.5	230.3	205.2	194.1	193.1
40°	1202.9	878.0	628.6	465.7	354.0	280.6	235.3	208.2	195.1	194.1
42.5°	1392.9	994.7	710.0	513.9	382.2	292.7	238.4	208.2	195.1	193.1
45°	1585.0	1139.5	805.6	563.2	404.3	302.7	237.4	206.2	193.1	191.1
47.5°	1779.1	1292.4	906.2	620.5	428.4	311.8	239.4	204.2	189.1	187.1
50°	1973.2	1438.2	1006.7	683.9	459.6	317.8	242.4	199.1	185.1	182.0
52.5°	2151.3	1594.1	1103.3	746.3	493.8	332.9	243.4	194.1	180.0	178.0
55°	2301.1	1721.8	1194.8	814.6	532.0	349.0	242.4	192.1	174.0	172.0
57.5°	2443.9	1824.4	1274.3	862.9	559.2	358.0	244.4	188.1	167.0	164.9
60°	2577.7	1902.8	1334.6	900.1	579.3	366.1	243.4	182.0	157.9	157.9
62.5°	2665.2	1956.1	1369.8	918.2	591.4	368.1	240.4	175.0	148.8	145.8
65°	2687.3	1983.3	1382.9	922.3	589.4	362.1	229.3	168.0	136.8	132.8
67.5°	2630.0	1959.2	1364.8	904.2	572.3	346.0	213.2	155.9	120.7	119.7
70°	2501.3	1874.7	1312.5	862.9	541.1	324.9	194.1	140.8	108.6	104.6
72.5°	2298.1	1725.8	1215.9	799.6	494.8	297.7	177.0	124.7	99.6	95.5
75°	2018.5	1527.7	1075.1	710.0	437.5	262.5	158.9	107.6	91.5	88.5
77.5°	1681.6	1270.2	900.1	601.4	371.1	225.3	137.8	89.5	82.5	82.5
80°	1278.3	1000.7	706.0	470.7	292.7	179.0	113.6	74.4	71.4	72.4
82.5°	874.0	683.9	490.8	329.9	211.2	134.8	86.5	60.3	59.3	59.3
85°	474.7	387.2	278.6	196.1	125.7	87.5	59.3	46.3	46.3	46.3
87.5°	146.8	118.7	82.5	62.4	51.3	41.2	35.2	31.2	33.2	33.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)