

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: P553660

Luminaire Tested: **ARB-B2-LED-D1-T4**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553660
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-B2-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: 4691 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Circular (Dia: 1.62' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

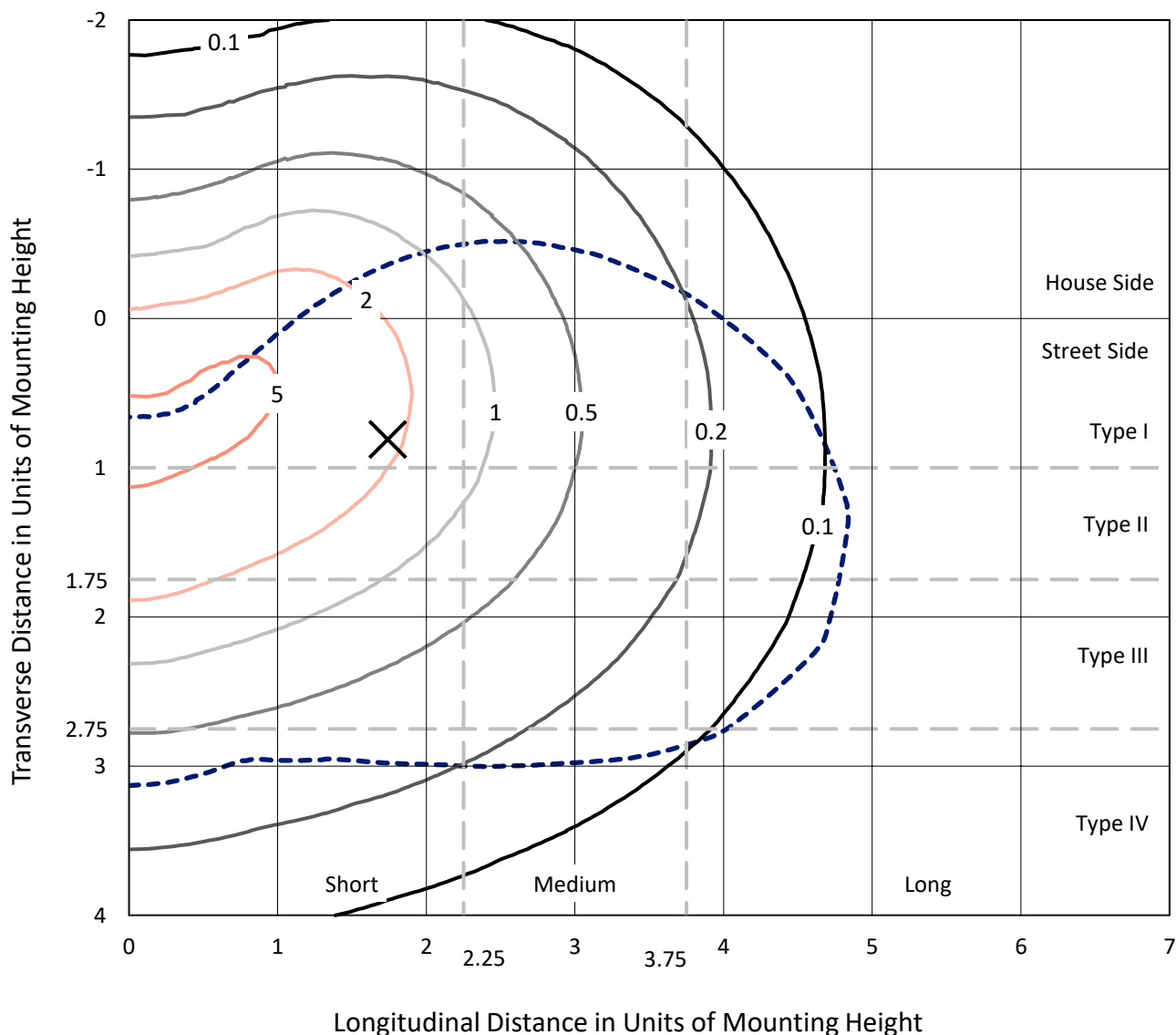
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

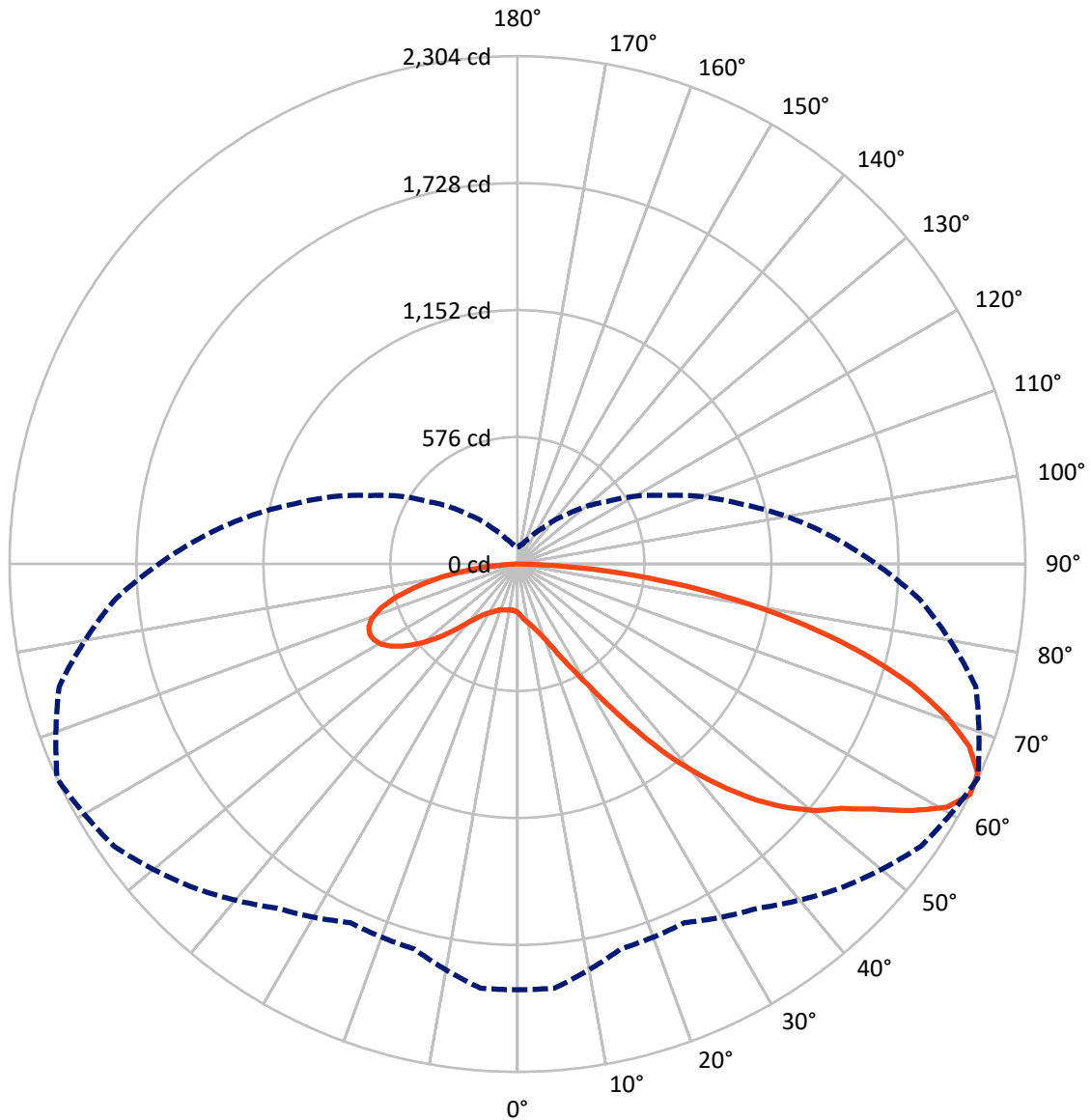
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.4 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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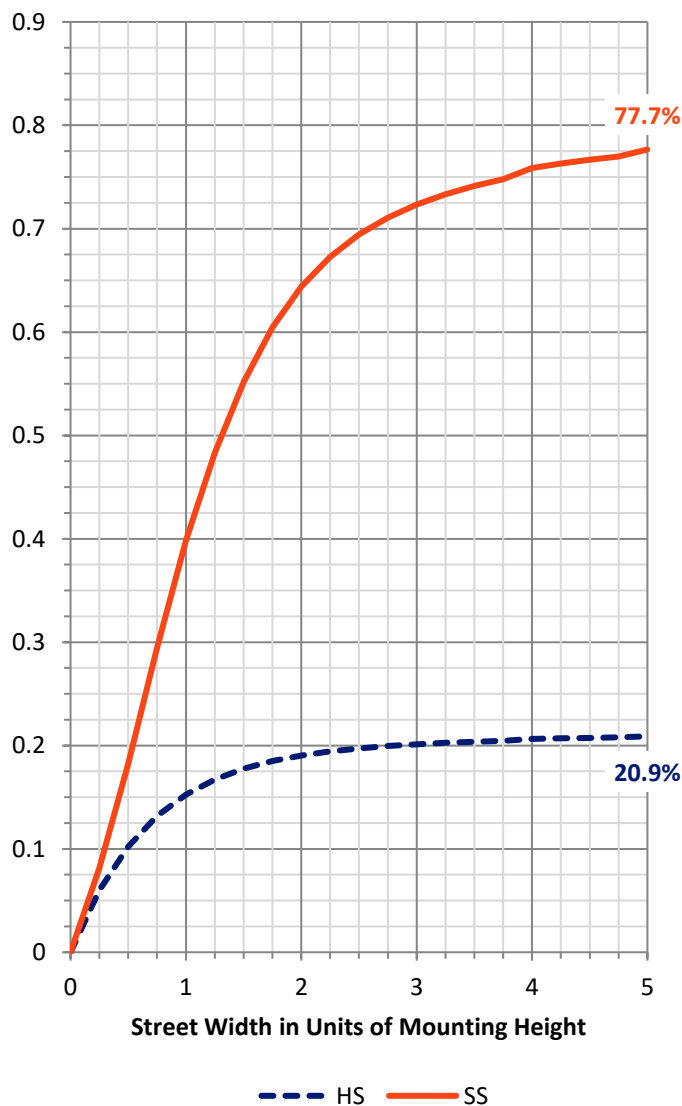
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	991.6	0.0	991.6
	% Fixture	21.1	0.0	21.1
Street Side	Lumens	3699.4	0.0	3699.4
	% Fixture	78.9	0.0	78.9
Total	Lumens	4691.0	0.0	4691.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.2	0.5
10°-20°	74.3	1.6
20°-30°	167.9	3.6
30°-40°	398.3	8.5
40°-50°	712.7	15.2
50°-60°	1038.6	22.1
60°-70°	1183.4	25.2
70°-80°	852.9	18.2
80°-90°	240.8	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°	4691.0	100.0
0°-180°	4691.0	100.0

Coefficient of Utilization



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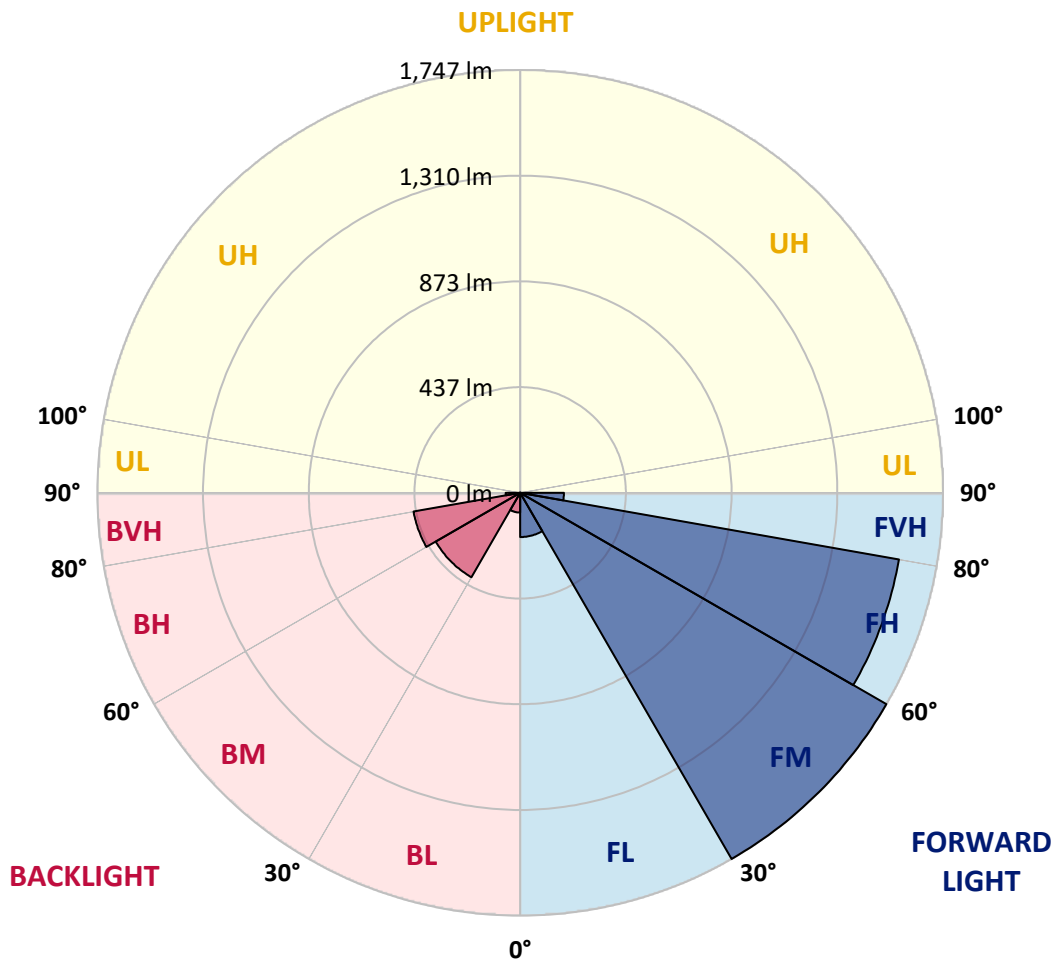
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	182.7	3.9			
FM	(30°-60°)	1746.8	37.2			
FH	(60°-80°)	1589.1	33.9			G1/1800
FVH	(80°-90°)	180.7	3.9			G2/225
BL	(0°-30°)	81.7	1.7	B0/110		
BM	(30°-60°)	402.7	8.6	B1/1000		
BH	(60°-80°)	447.2	9.5	B1/500		G1/500
BVH	(80°-90°)	60.0	1.3			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	219.7	219.7	219.7	219.7	219.7	219.7	219.7	219.7	219.7	219.7	219.7
2.5°	245.6	243.5	243.5	242.9	240.8	238.1	234.8	230.5	227.8	223.5	221.3
5°	267.2	267.2	266.1	264.5	261.3	256.9	251.0	245.1	238.6	231.0	227.8
7.5°	287.7	287.7	286.6	282.9	279.1	274.2	266.7	258.6	249.4	239.1	234.3
10°	310.4	309.3	306.6	302.3	296.9	289.9	281.8	272.1	261.3	248.8	242.4
12.5°	329.3	329.3	328.2	323.9	316.9	307.7	298.5	287.2	275.3	259.6	252.1
15°	350.3	349.8	349.8	346.6	340.6	330.9	319.0	307.7	292.6	272.1	263.4
17.5°	390.3	388.7	384.3	375.2	368.7	361.1	349.8	333.6	314.2	288.3	276.4
20°	443.7	446.4	432.9	417.3	404.3	397.8	387.6	366.5	338.5	302.3	287.2
22.5°	527.4	523.6	500.4	483.1	461.5	449.1	441.0	412.4	374.1	329.3	309.3
25°	612.7	610.0	585.7	561.9	538.2	526.3	509.6	475.6	418.9	363.8	336.3
27.5°	695.3	695.8	677.5	655.3	639.1	626.7	595.9	550.6	474.5	404.3	371.9
30°	830.2	842.6	807.0	793.0	785.4	773.0	730.4	640.2	549.0	456.7	414.6
32.5°	1085.0	1078.5	1028.3	971.1	954.4	934.9	879.9	771.9	651.0	526.3	471.2
35°	1358.7	1341.4	1251.3	1169.8	1122.8	1090.4	1040.7	919.8	772.5	623.5	551.1
37.5°	1471.0	1465.6	1407.3	1343.6	1291.7	1251.3	1204.3	1089.9	922.0	735.2	639.7
40°	1561.7	1560.0	1513.6	1461.8	1435.9	1390.5	1341.4	1244.2	1078.0	859.4	753.6
42.5°	1622.1	1622.6	1581.1	1541.1	1535.2	1507.1	1473.1	1392.2	1219.4	984.1	863.1
45°	1671.2	1671.8	1608.1	1591.3	1607.5	1609.2	1590.3	1531.4	1359.8	1125.5	984.1
47.5°	1712.3	1710.1	1628.6	1608.1	1650.7	1695.0	1688.0	1652.3	1499.0	1251.3	1102.3
50°	1731.7	1725.8	1638.3	1620.5	1671.8	1740.9	1759.2	1758.1	1624.8	1363.0	1214.6
52.5°	1812.7	1794.8	1696.1	1679.3	1724.7	1808.3	1840.2	1841.3	1741.4	1471.0	1315.5
55°	2096.6	2090.7	1921.2	1833.7	1856.9	1948.7	1973.0	1962.2	1859.6	1571.4	1410.0
57.5°	2123.0	2113.9	1987.6	1920.1	1963.3	2064.2	2122.0	2110.1	1987.0	1675.0	1484.5
60°	2055.6	2038.3	1922.2	1890.9	1971.4	2106.9	2217.5	2239.1	2083.1	1773.3	1575.1
62.5°	1931.4	1930.9	1808.3	1794.8	1905.0	2076.6	2233.7	2303.9	2152.7	1831.0	1626.4
65°	1765.7	1760.8	1656.7	1669.6	1794.8	1987.6	2177.6	2294.2	2168.4	1840.7	1639.9
67.5°	1495.8	1509.3	1458.5	1525.5	1652.9	1860.7	2070.1	2211.0	2111.7	1796.5	1608.1
70°	1296.6	1310.1	1277.7	1351.7	1490.9	1699.3	1928.2	2060.4	1982.7	1702.0	1527.6
72.5°	1134.7	1129.3	1103.4	1180.0	1312.3	1507.7	1732.8	1867.7	1799.7	1553.6	1398.6
75°	959.2	949.0	923.6	988.9	1123.3	1295.0	1491.5	1619.9	1563.3	1367.3	1226.4
77.5°	776.2	769.2	743.8	794.1	898.8	1072.0	1249.6	1337.6	1302.0	1134.1	1017.5
80°	604.6	590.0	562.5	600.8	688.8	820.5	954.9	1026.7	989.5	863.7	776.8
82.5°	399.5	412.4	400.5	402.2	481.0	577.6	682.9	709.3	690.9	592.7	537.6
85°	237.0	231.0	222.4	224.6	265.6	333.1	386.0	403.2	386.5	325.5	299.6
87.5°	50.7	53.4	55.6	49.7	68.6	90.7	102.0	104.2	105.8	91.2	80.4
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°	219.7	219.7	219.7	219.7	219.7	219.7	219.7	219.7	219.7	219.7
2.5°	219.7	216.5	213.8	211.1	208.9	207.8	206.7	206.2	205.7	206.2
5°	224.6	218.1	212.1	206.7	202.4	199.2	195.9	194.3	192.7	192.7
7.5°	229.4	219.7	210.5	202.4	195.4	188.9	184.6	181.9	179.8	179.8
10°	235.4	222.9	210.5	199.2	189.5	181.9	174.9	171.1	168.4	167.9
12.5°	244.0	227.8	212.7	198.6	186.2	176.0	167.9	161.9	158.7	158.2
15°	253.7	233.7	214.8	198.6	183.5	169.5	159.8	152.8	149.0	147.9
17.5°	263.4	239.7	218.1	198.1	179.8	164.1	152.8	144.7	140.9	139.8
20°	273.1	245.1	219.2	195.9	175.4	158.7	145.7	137.6	132.8	132.8
22.5°	291.0	256.4	226.2	197.6	174.4	155.5	140.3	131.7	127.4	126.3
25°	314.7	271.0	234.3	200.8	173.8	152.2	136.0	126.3	122.0	120.9
27.5°	342.8	288.3	243.5	204.6	173.8	149.5	132.3	122.0	116.6	116.6
30°	377.3	308.8	253.2	208.9	173.3	146.8	128.5	117.7	112.8	112.3
32.5°	421.6	336.3	265.0	212.7	173.3	144.7	125.2	113.9	108.5	108.0
35°	482.6	368.7	282.3	219.7	174.4	144.1	123.6	111.2	105.3	104.7
37.5°	557.1	414.6	306.1	233.2	179.8	145.7	123.6	110.1	104.2	103.6
40°	645.6	471.2	337.4	249.9	190.0	150.6	126.3	111.7	104.7	104.2
42.5°	747.6	533.9	381.1	275.8	205.1	157.1	127.9	111.7	104.7	103.6
45°	850.7	611.6	432.4	302.3	217.0	162.5	127.4	110.7	103.6	102.6
47.5°	954.9	693.6	486.4	333.1	230.0	167.3	128.5	109.6	101.5	100.4
50°	1059.1	771.9	540.3	367.1	246.7	170.6	130.1	106.9	99.3	97.7
52.5°	1154.6	855.6	592.2	400.5	265.0	178.7	130.6	104.2	96.6	95.5
55°	1235.1	924.1	641.3	437.2	285.6	187.3	130.1	103.1	93.4	92.3
57.5°	1311.7	979.2	683.9	463.2	300.1	192.2	131.2	100.9	89.6	88.5
60°	1383.5	1021.3	716.3	483.1	310.9	196.5	130.6	97.7	84.7	84.7
62.5°	1430.5	1049.9	735.2	492.8	317.4	197.6	129.0	93.9	79.9	78.3
65°	1442.4	1064.5	742.2	495.0	316.3	194.3	123.1	90.1	73.4	71.3
67.5°	1411.6	1051.5	732.5	485.3	307.1	185.7	114.4	83.7	64.8	64.2
70°	1342.5	1006.2	704.4	463.2	290.4	174.4	104.2	75.6	58.3	56.1
72.5°	1233.5	926.3	652.6	429.1	265.6	159.8	95.0	66.9	53.4	51.3
75°	1083.4	820.0	577.0	381.1	234.8	140.9	85.3	57.8	49.1	47.5
77.5°	902.6	681.8	483.1	322.8	199.2	120.9	74.0	48.0	44.3	44.3
80°	686.1	537.1	378.9	252.6	157.1	96.1	61.0	39.9	38.3	38.9
82.5°	469.1	367.1	263.4	177.1	113.4	72.3	46.4	32.4	31.8	31.8
85°	254.8	207.8	149.5	105.3	67.5	47.0	31.8	24.8	24.8	24.8
87.5°	78.8	63.7	44.3	33.5	27.5	22.1	18.9	16.7	17.8	17.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)