

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: P553659

Luminaire Tested: **ARB-B2-LED-D1-T4-8030**

Issue Date: 7/12/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P553659  
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-T4-8030  
Description: ARBOR OUTDOOR ARCHITECTURAL POST TOP  
80 CRI, 3000K LEDS AND TYPE IV OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3918 lumens  
Efficiency: N/A  
Efficacy: 81.6 lumens/watt  
Luminous Opening: Circular (Dia: 1.62' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

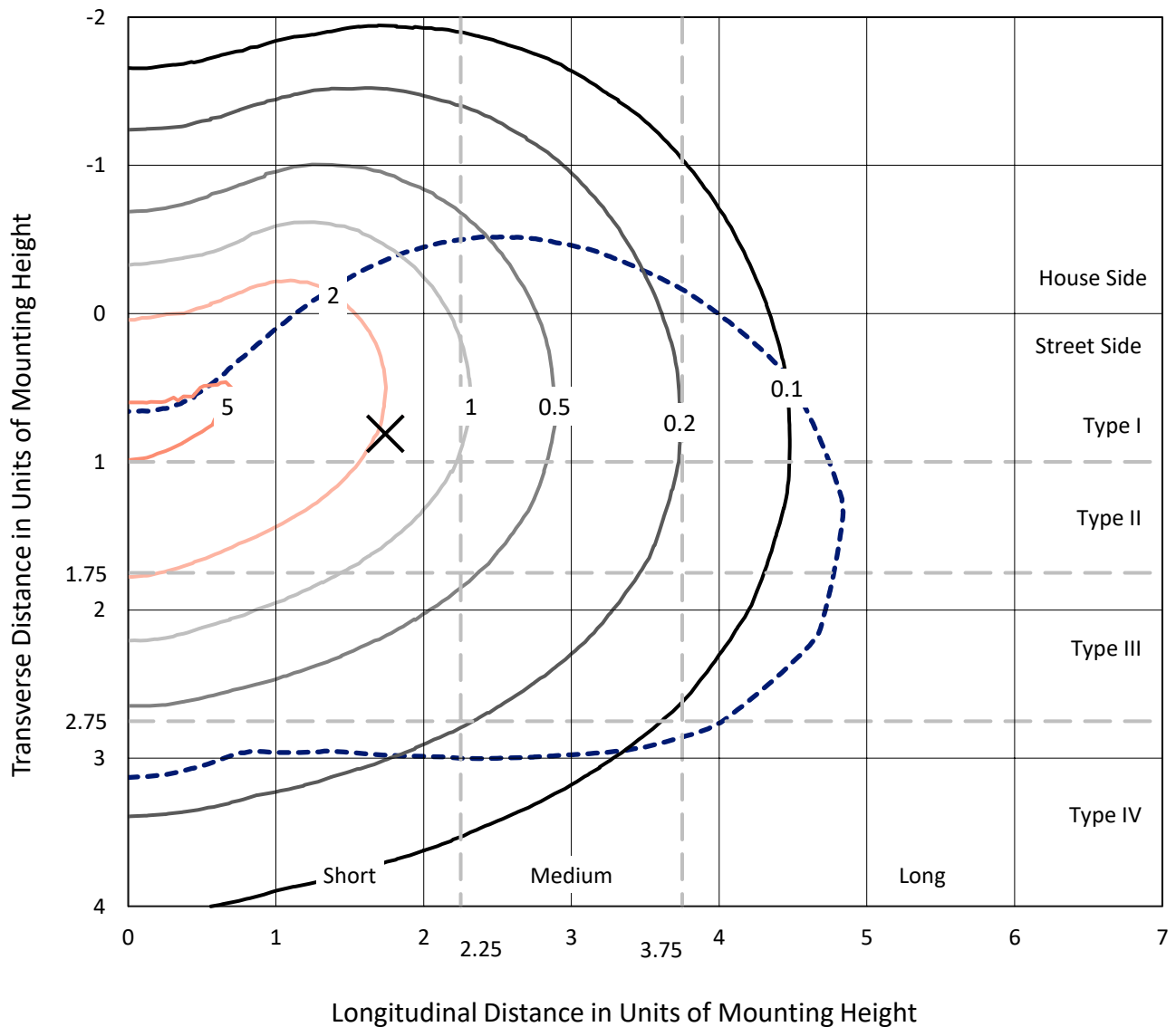
Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

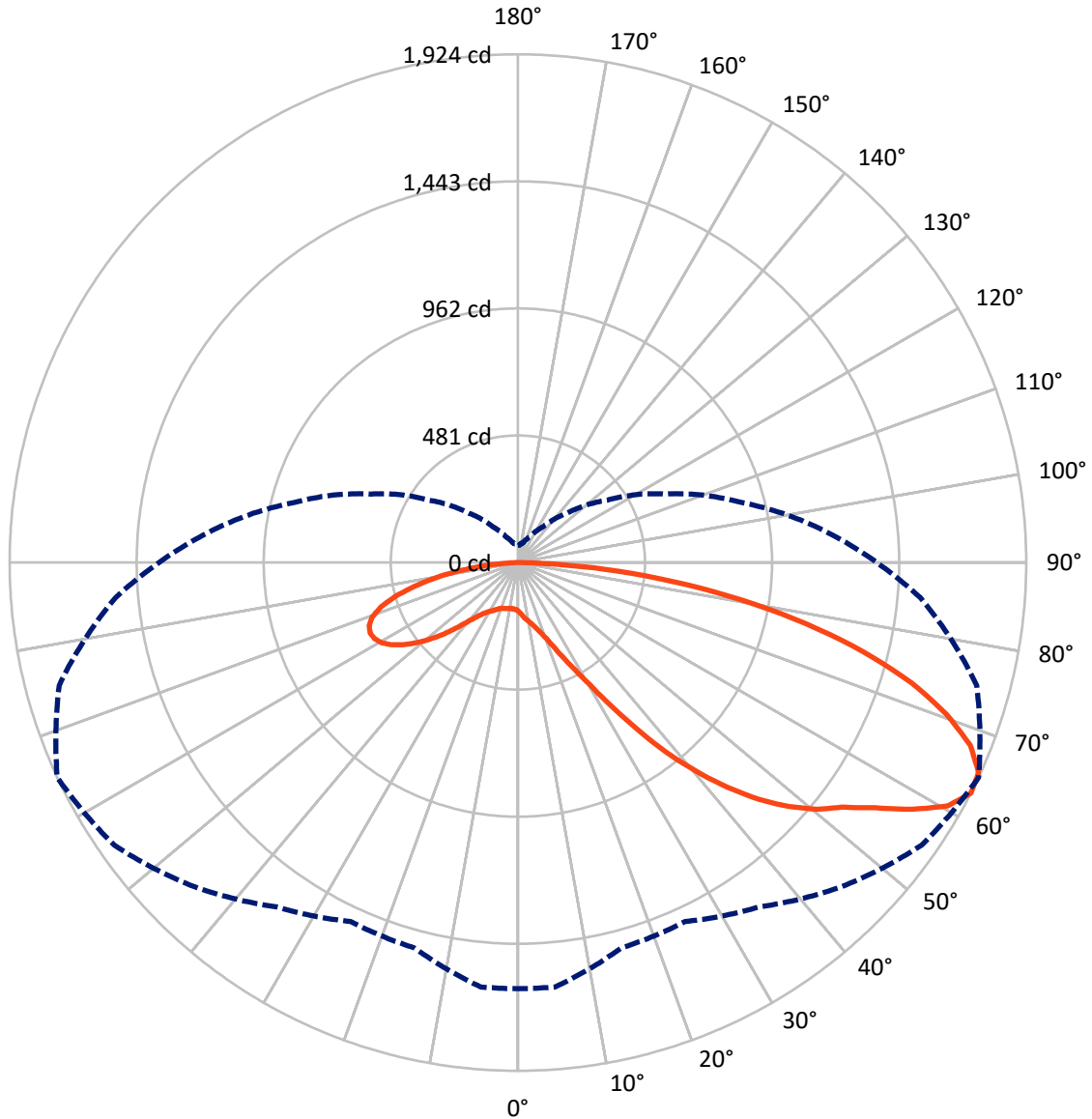
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.2 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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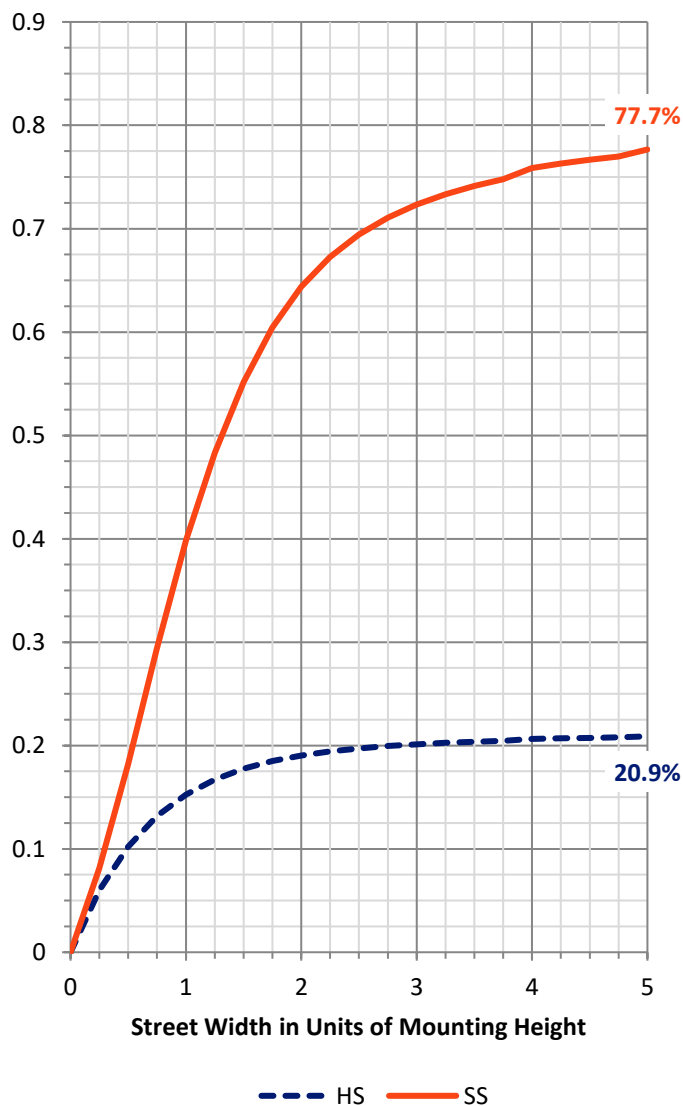
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	828.2	0.0	828.2
	% Fixture	21.1	0.0	21.1
<b>Street Side</b>	Lumens	3089.8	0.0	3089.8
	% Fixture	78.9	0.0	78.9
<b>Total</b>	Lumens	3918.0	0.0	3918.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18.5	0.5
10°-20°	62.1	1.6
20°-30°	140.2	3.6
30°-40°	332.6	8.5
40°-50°	595.3	15.2
50°-60°	867.5	22.1
60°-70°	988.4	25.2
70°-80°	712.4	18.2
80°-90°	201.1	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°	3918.0	100.0
0°-180°	3918.0	100.0

**Coefficient of Utilization**



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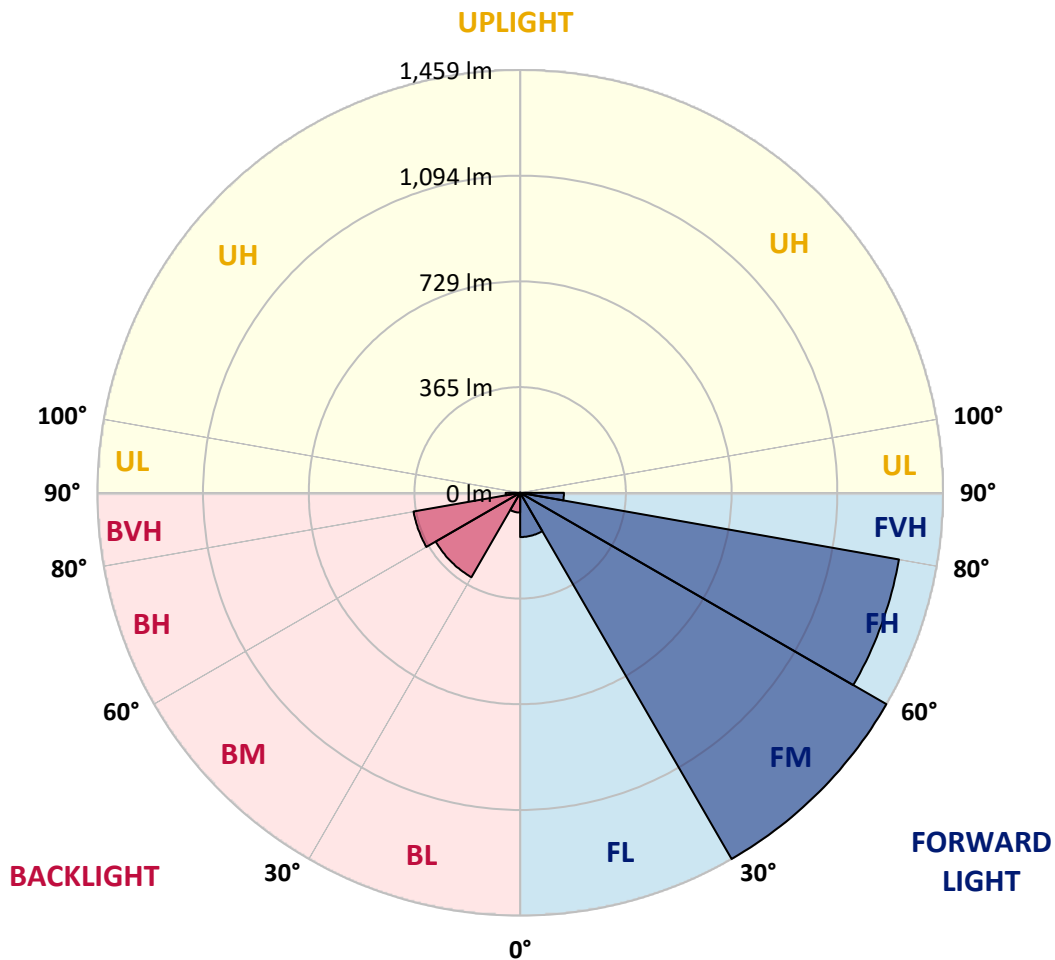
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	152.6	3.9			
FM (30°-60°)	1459.0	37.2			
FH (60°-80°)	1327.2	33.9			G1/1800
FVH (80°-90°)	150.9	3.9			G2/225
BL (0°-30°)	68.2	1.7	B0/110		
BM (30°-60°)	336.4	8.6	B1/1000		
BH (60°-80°)	373.5	9.5	B1/500		G1/500
BVH (80°-90°)	50.1	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°	183.5	183.5	183.5	183.5	183.5	183.5	183.5	183.5	183.5	183.5	183.5
2.5°	205.1	203.3	203.3	202.9	201.1	198.8	196.1	192.5	190.3	186.7	184.8
5°	223.2	223.2	222.3	220.9	218.2	214.6	209.6	204.7	199.3	193.0	190.3
7.5°	240.3	240.3	239.4	236.2	233.1	229.0	222.7	216.0	208.3	199.7	195.7
10°	259.2	258.3	256.1	252.5	248.0	242.1	235.3	227.2	218.2	207.8	202.4
12.5°	275.0	275.0	274.1	270.5	264.7	257.0	249.3	239.9	229.9	216.9	210.5
15°	292.6	292.2	292.2	289.4	284.5	276.4	266.5	257.0	244.4	227.2	220.0
17.5°	326.0	324.6	321.0	313.3	307.9	301.6	292.2	278.6	262.4	240.8	230.8
20°	370.6	372.9	361.6	348.5	337.7	332.3	323.7	306.1	282.7	252.5	239.9
22.5°	440.5	437.3	417.9	403.5	385.5	375.1	368.3	344.5	312.4	275.0	258.3
25°	511.7	509.5	489.2	469.3	449.5	439.6	425.6	397.2	349.9	303.9	280.9
27.5°	580.7	581.1	565.8	547.3	533.8	523.4	497.7	459.9	396.3	337.7	310.6
30°	693.4	703.8	674.0	662.3	656.0	645.6	610.0	534.7	458.5	381.4	346.3
32.5°	906.2	900.8	858.9	811.1	797.1	780.9	734.9	644.7	543.7	439.6	393.6
35°	1134.8	1120.4	1045.1	977.0	937.8	910.7	869.2	768.3	645.2	520.7	460.3
37.5°	1228.6	1224.1	1175.4	1122.2	1078.9	1045.1	1005.9	910.3	770.1	614.1	534.3
40°	1304.3	1303.0	1264.2	1220.9	1199.3	1161.4	1120.4	1039.2	900.4	717.8	629.4
42.5°	1354.8	1355.3	1320.5	1287.2	1282.2	1258.8	1230.4	1162.7	1018.5	821.9	720.9
45°	1395.8	1396.3	1343.1	1329.1	1342.6	1344.0	1328.2	1279.1	1135.7	940.0	821.9
47.5°	1430.1	1428.3	1360.2	1343.1	1378.7	1415.7	1409.8	1380.1	1252.0	1045.1	920.6
50°	1446.3	1441.4	1368.3	1353.5	1396.3	1454.0	1469.3	1468.4	1357.1	1138.4	1014.4
52.5°	1514.0	1499.1	1416.6	1402.6	1440.5	1510.4	1537.0	1537.9	1454.5	1228.6	1098.7
55°	1751.1	1746.2	1604.6	1531.5	1550.9	1627.6	1647.9	1638.8	1553.2	1312.4	1177.6
57.5°	1773.2	1765.5	1660.0	1603.7	1639.8	1724.1	1772.3	1762.4	1659.6	1399.0	1239.8
60°	1716.8	1702.4	1605.5	1579.3	1646.5	1759.7	1852.1	1870.1	1739.8	1481.1	1315.6
62.5°	1613.2	1612.7	1510.4	1499.1	1591.1	1734.4	1865.6	1924.2	1798.0	1529.3	1358.4
65°	1474.7	1470.7	1383.7	1394.5	1499.1	1660.0	1818.7	1916.1	1811.1	1537.4	1369.7
67.5°	1249.3	1260.6	1218.2	1274.1	1380.5	1554.1	1729.0	1846.7	1763.7	1500.4	1343.1
70°	1082.9	1094.2	1067.2	1128.9	1245.3	1419.3	1610.4	1720.9	1656.0	1421.5	1275.9
72.5°	947.7	943.2	921.5	985.6	1096.0	1259.2	1447.2	1559.9	1503.1	1297.6	1168.2
75°	801.2	792.6	771.4	826.0	938.2	1081.6	1245.7	1353.0	1305.7	1142.0	1024.3
77.5°	648.3	642.5	621.3	663.2	750.7	895.4	1043.7	1117.2	1087.5	947.2	849.9
80°	505.0	492.8	469.8	501.8	575.3	685.3	797.6	857.5	826.4	721.4	648.8
82.5°	333.6	344.5	334.5	335.9	401.7	482.4	570.3	592.4	577.1	495.0	449.0
85°	197.9	193.0	185.8	187.6	221.8	278.2	322.4	336.8	322.8	271.9	250.2
87.5°	42.4	44.6	46.4	41.5	57.3	75.7	85.2	87.0	88.4	76.2	67.2
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°	183.5	183.5	183.5	183.5	183.5	183.5	183.5	183.5	183.5	183.5
2.5°	183.5	180.8	178.5	176.3	174.5	173.6	172.7	172.2	171.8	172.2
5°	187.6	182.1	177.2	172.7	169.1	166.4	163.7	162.3	161.0	161.0
7.5°	191.6	183.5	175.8	169.1	163.2	157.8	154.2	151.9	150.1	150.1
10°	196.6	186.2	175.8	166.4	158.2	151.9	146.1	142.9	140.7	140.2
12.5°	203.8	190.3	177.6	165.9	155.5	147.0	140.2	135.3	132.6	132.1
15°	211.9	195.2	179.4	165.9	153.3	141.6	133.5	127.6	124.4	123.5
17.5°	220.0	200.2	182.1	165.5	150.1	137.1	127.6	120.8	117.7	116.8
20°	228.1	204.7	183.0	163.7	146.5	132.6	121.7	115.0	110.9	110.9
22.5°	243.0	214.2	188.9	165.0	145.6	129.8	117.2	110.0	106.4	105.5
25°	262.8	226.3	195.7	167.7	145.2	127.1	113.6	105.5	101.9	101.0
27.5°	286.3	240.8	203.3	170.9	145.2	124.9	110.5	101.9	97.4	97.4
30°	315.1	257.9	211.4	174.5	144.7	122.6	107.3	98.3	94.2	93.8
32.5°	352.1	280.9	221.4	177.6	144.7	120.8	104.6	95.1	90.6	90.2
35°	403.1	307.9	235.8	183.5	145.6	120.4	103.2	92.9	87.9	87.5
37.5°	465.3	346.3	255.6	194.8	150.1	121.7	103.2	92.0	87.0	86.6
40°	539.2	393.6	281.8	208.7	158.7	125.8	105.5	93.3	87.5	87.0
42.5°	624.4	445.9	318.3	230.4	171.3	131.2	106.9	93.3	87.5	86.6
45°	710.5	510.8	361.1	252.5	181.2	135.7	106.4	92.4	86.6	85.7
47.5°	797.6	579.3	406.2	278.2	192.1	139.8	107.3	91.5	84.8	83.9
50°	884.6	644.7	451.3	306.6	206.0	142.5	108.7	89.3	83.0	81.6
52.5°	964.4	714.6	494.6	334.5	221.4	149.2	109.1	87.0	80.7	79.8
55°	1031.6	771.9	535.6	365.2	238.5	156.4	108.7	86.1	78.0	77.1
57.5°	1095.6	817.8	571.2	386.8	250.7	160.5	109.6	84.3	74.8	73.9
60°	1155.5	853.0	598.3	403.5	259.7	164.1	109.1	81.6	70.8	70.8
62.5°	1194.8	876.9	614.1	411.6	265.1	165.0	107.8	78.4	66.7	65.4
65°	1204.7	889.1	619.9	413.4	264.2	162.3	102.8	75.3	61.3	59.5
67.5°	1179.0	878.3	611.8	405.3	256.5	155.1	95.6	69.9	54.1	53.7
70°	1121.3	840.4	588.4	386.8	242.6	145.6	87.0	63.1	48.7	46.9
72.5°	1030.2	773.7	545.1	358.4	221.8	133.5	79.4	55.9	44.6	42.8
75°	904.9	684.8	482.0	318.3	196.1	117.7	71.2	48.2	41.0	39.7
77.5°	753.8	569.4	403.5	269.6	166.4	101.0	61.8	40.1	37.0	37.0
80°	573.0	448.6	316.5	211.0	131.2	80.3	50.9	33.4	32.0	32.5
82.5°	391.8	306.6	220.0	147.9	94.7	60.4	38.8	27.1	26.6	26.6
85°	212.8	173.6	124.9	87.9	56.4	39.2	26.6	20.7	20.7	20.7
87.5°	65.8	53.2	37.0	28.0	23.0	18.5	15.8	14.0	14.9	14.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)