

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: P553746

Luminaire Tested: **LXS-VA2-830-U-AST-A**

Issue Date: 7/13/2021

Test Information

Test Method: LM-79-08
Report Number: P553746
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1803-687-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: LXS-VA2-830-U-AST-A
Description: LUXESCAPE OUTDOOR ARCHITECTURAL LUMINAIRE
80 CRI, 3000K LEDS AND TYPE IV OPTIC, ARM MOUNT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4157 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Circular (Dia: 1.62' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

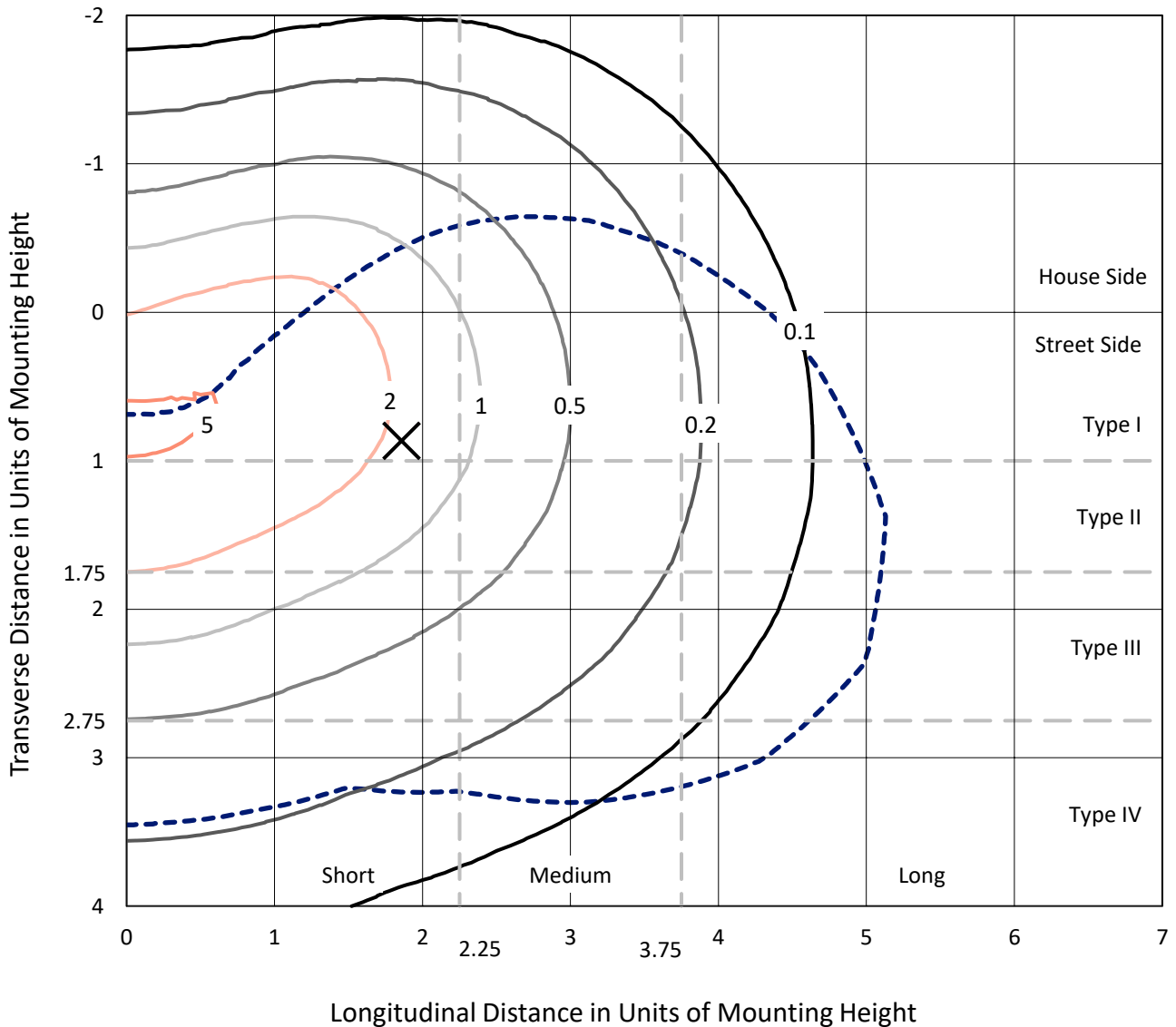
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

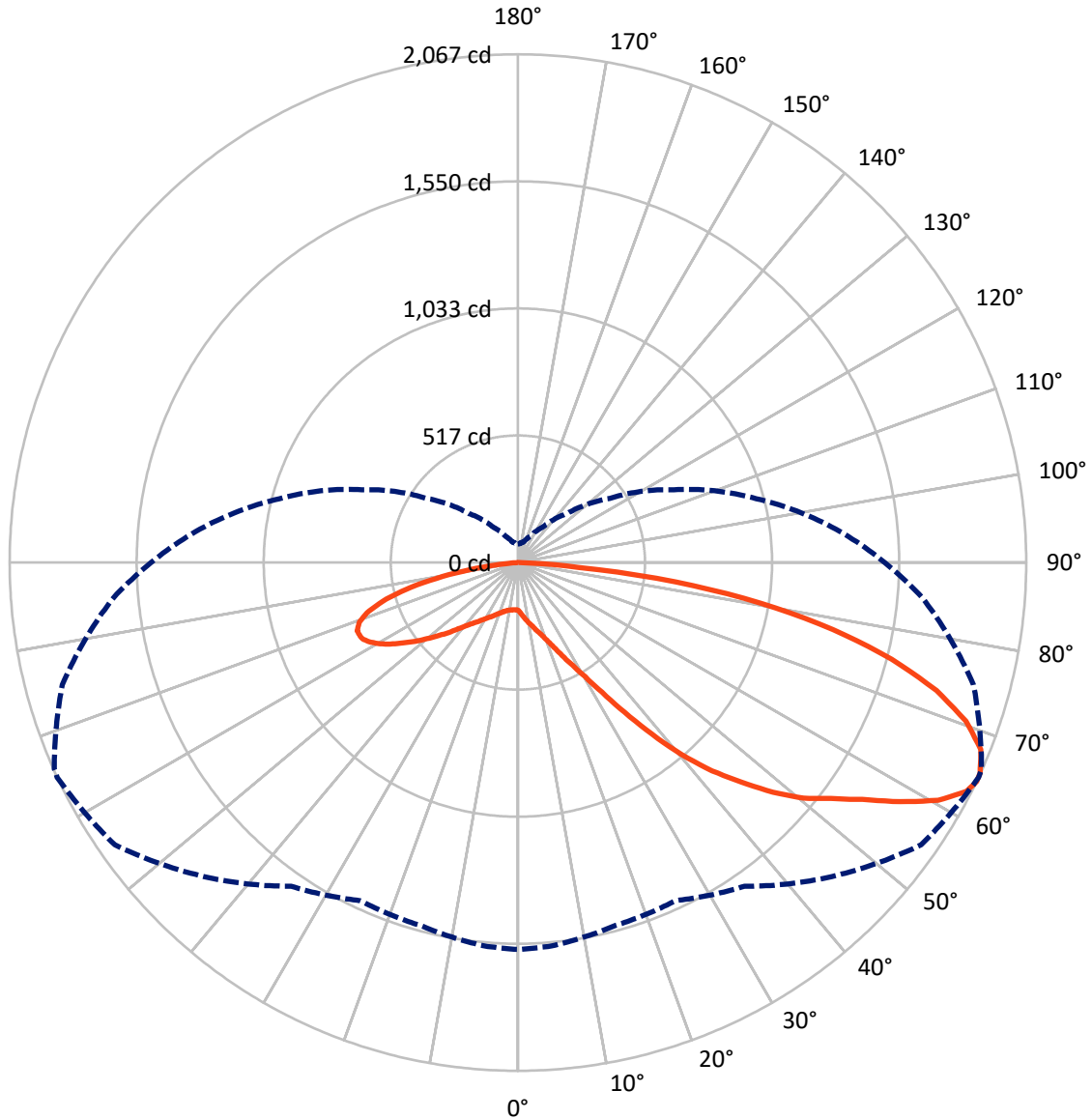
× Max cd
 - - - 1/2 Max cd



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 64-Deg Vertical

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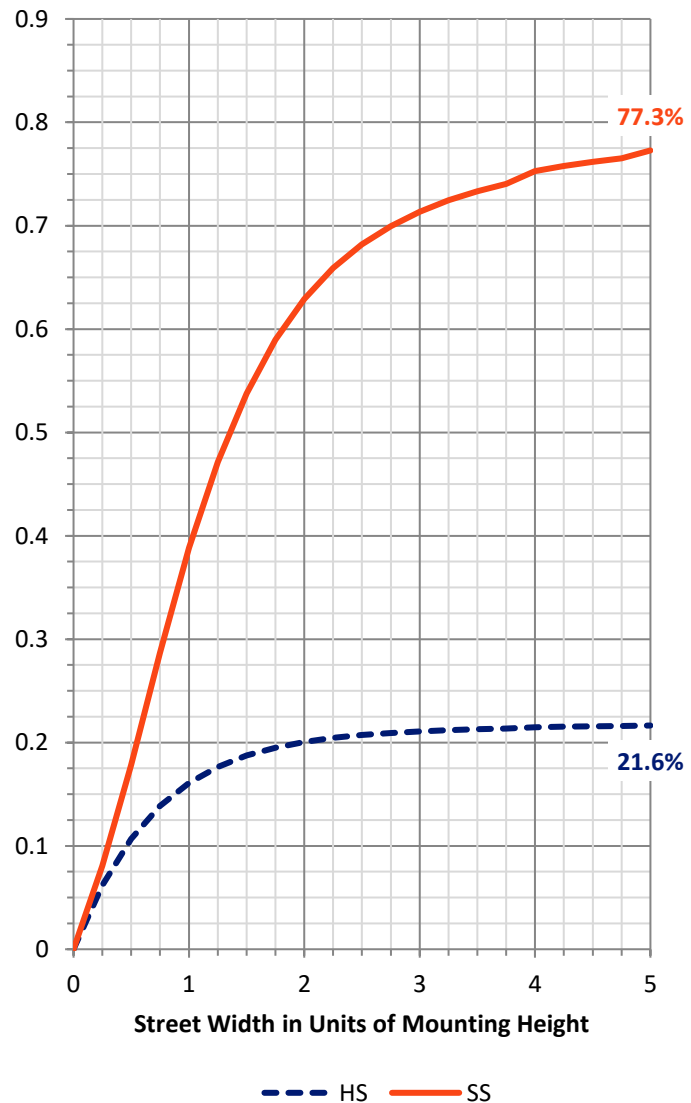
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	902.6	0.0	902.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	3254.4	0.0	3254.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	4157.0	0.0	4157.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.0	0.5
10°-20°	69.5	1.7
20°-30°	154.0	3.7
30°-40°	341.4	8.2
40°-50°	605.4	14.6
50°-60°	884.7	21.3
60°-70°	1070.4	25.8
70°-80°	824.9	19.8
80°-90°	186.8	4.5
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°	4157.0	100.0
0°-180°	4157.0	100.0



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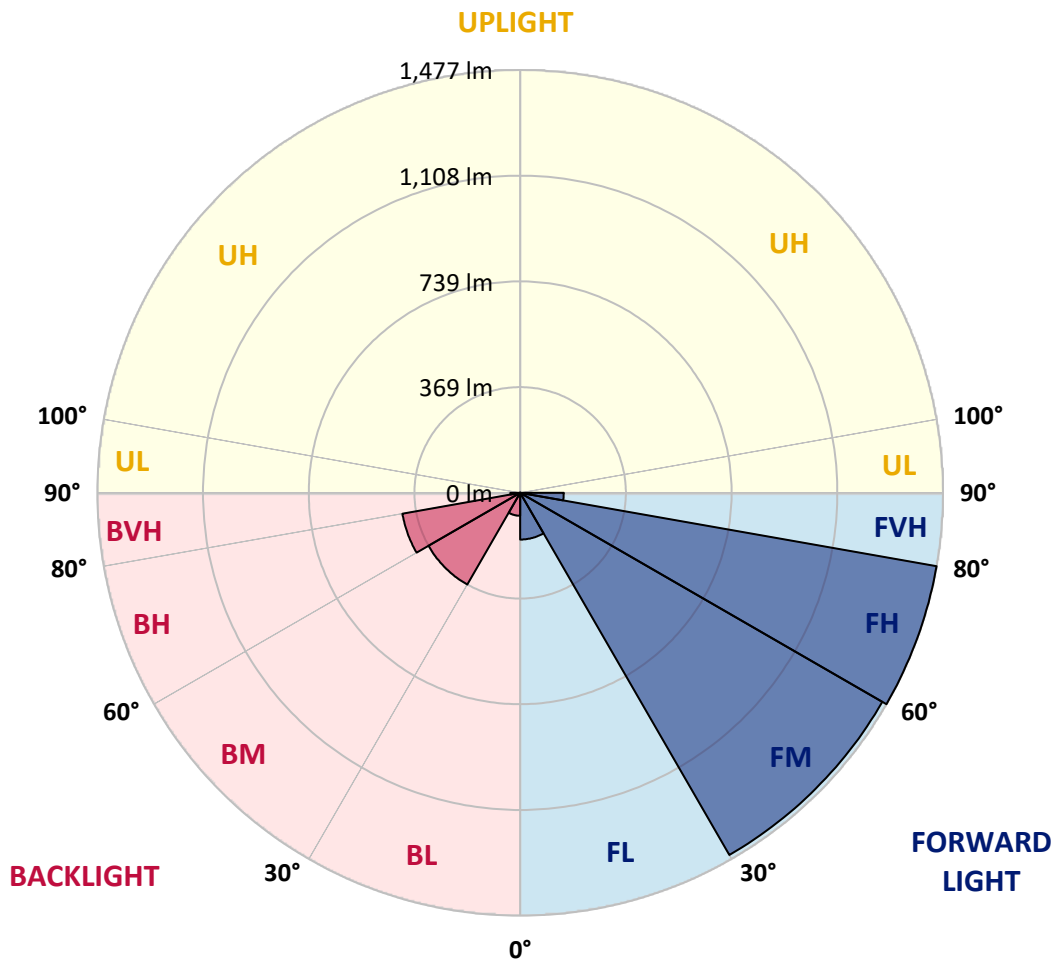
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	163.3	3.9			
FM (30°-60°)	1461.3	35.2			
FH (60°-80°)	1477.5	35.5			G1/1800
FVH (80°-90°)	152.4	3.7			G2/225
BL (0°-30°)	80.2	1.9	B0/110		
BM (30°-60°)	370.2	8.9	B1/1000		
BH (60°-80°)	417.8	10.1	B1/500		G1/500
BVH (80°-90°)	34.4	0.8			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°	66°	75°	85°
0°	194.0	194.0	194.0	194.0	194.0	194.0	194.0	194.0	194.0	194.0	194.0
2.5°	218.0	218.0	216.4	216.4	214.8	211.6	210.0	205.2	205.2	202.0	198.8
5°	235.7	235.7	235.7	234.1	232.5	229.3	226.1	219.6	219.6	213.2	208.4
7.5°	251.7	251.7	250.1	250.1	246.9	245.3	242.1	234.1	234.1	226.1	216.4
10°	274.2	272.6	271.0	269.4	266.1	261.3	258.1	250.1	248.5	238.9	227.7
12.5°	295.0	295.0	295.0	293.4	290.2	283.8	275.8	266.1	266.1	253.3	238.9
15°	319.1	317.5	317.5	315.8	314.2	309.4	298.2	287.0	285.4	272.6	253.3
17.5°	355.9	354.3	351.1	344.7	339.9	336.7	327.1	307.8	307.8	293.4	272.6
20°	400.8	399.2	394.4	388.0	376.8	367.2	359.1	336.7	333.5	317.5	291.8
22.5°	458.5	455.3	448.9	440.9	431.3	410.4	396.0	373.6	367.2	344.7	315.8
25°	538.7	535.5	522.7	498.6	482.6	469.8	440.9	418.5	412.0	378.4	344.7
27.5°	607.6	606.0	599.6	585.2	551.5	533.9	500.2	473.0	466.6	421.7	378.4
30°	711.9	707.0	691.0	673.4	657.3	618.9	586.8	538.7	532.3	477.8	421.7
32.5°	897.8	888.2	859.4	806.5	780.8	735.9	700.6	628.5	617.3	553.1	476.2
35°	1125.5	1114.3	1061.4	984.4	910.7	878.6	817.7	747.1	727.9	647.7	541.9
37.5°	1234.5	1228.1	1191.2	1122.3	1051.8	1003.7	950.7	885.0	862.6	760.0	618.9
40°	1305.1	1303.5	1273.0	1218.5	1172.0	1117.5	1088.6	1027.7	1005.3	885.0	715.1
42.5°	1351.6	1350.0	1332.3	1284.2	1265.0	1228.1	1212.1	1157.6	1139.9	1014.9	819.3
45°	1364.4	1359.6	1351.6	1348.4	1324.3	1330.7	1330.7	1273.0	1261.8	1143.1	934.7
47.5°	1409.3	1404.5	1370.8	1362.8	1377.2	1420.5	1434.9	1394.9	1386.8	1261.8	1040.5
50°	1406.1	1406.1	1407.7	1374.0	1431.7	1478.2	1515.1	1505.5	1499.1	1370.8	1152.8
52.5°	1430.1	1425.3	1402.9	1420.5	1447.8	1526.3	1590.5	1593.7	1595.3	1475.0	1255.4
55°	1593.7	1593.7	1544.0	1500.7	1540.8	1640.2	1715.5	1699.5	1696.3	1582.4	1354.8
57.5°	1664.2	1657.8	1620.9	1574.4	1637.0	1760.4	1855.0	1834.2	1824.5	1694.7	1449.4
60°	1637.0	1627.3	1608.1	1587.3	1667.4	1814.9	1954.4	1962.4	1954.4	1797.3	1540.8
62.5°	1614.5	1606.5	1560.0	1560.0	1640.2	1822.9	1997.7	2047.4	2039.4	1880.7	1617.7
64°	1572.8	1564.8	1527.9	1516.7	1606.5	1805.3	2000.9	2066.6	2063.4	1917.5	1651.4
65°	1518.3	1516.7	1495.9	1481.4	1580.8	1786.1	1991.3	2065.0	2065.0	1932.0	1662.6
67.5°	1375.6	1367.6	1391.6	1388.4	1503.9	1720.3	1933.6	2029.8	2028.2	1925.5	1659.4
70°	1239.3	1232.9	1253.8	1276.2	1399.7	1609.7	1830.9	1932.0	1930.4	1851.8	1604.9
72.5°	1103.1	1111.1	1115.9	1141.5	1253.8	1460.6	1675.4	1779.6	1776.4	1712.3	1495.9
75°	973.2	963.6	968.4	979.6	1087.0	1277.8	1475.0	1569.6	1568.0	1513.5	1324.3
77.5°	808.1	803.2	804.8	803.2	905.9	1066.2	1228.1	1309.9	1308.3	1257.0	1090.2
80°	631.7	620.5	622.1	614.1	700.6	824.1	944.3	1002.1	992.4	952.4	811.3
82.5°	437.7	424.9	421.7	412.0	481.0	559.5	625.3	647.7	636.5	599.6	495.4
85°	189.2	171.6	195.6	195.6	216.4	235.7	250.1	245.3	238.9	222.9	166.7
87.5°	0.0	0.0	0.0	0.0	1.6	0.0	1.6	1.6	1.6	1.6	1.6
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°	194.0	194.0	194.0	194.0	194.0	194.0	194.0	194.0	194.0	194.0	194.0
2.5°	198.8	197.2	194.0	192.4	190.8	189.2	187.6	186.0	186.0	186.0	184.4
5°	205.2	202.0	197.2	192.4	189.2	184.4	181.2	178.0	176.4	174.8	174.8
7.5°	211.6	208.4	200.4	194.0	186.0	179.6	173.2	169.9	166.7	165.1	165.1
10°	221.3	216.4	205.2	195.6	184.4	176.4	168.3	163.5	160.3	160.3	158.7
12.5°	230.9	224.5	213.2	198.8	184.4	174.8	166.7	160.3	155.5	153.9	153.9
15°	245.3	237.3	221.3	203.6	187.6	174.8	163.5	153.9	149.1	145.9	145.9
17.5°	259.7	250.1	230.9	210.0	192.4	174.8	160.3	150.7	144.3	141.1	141.1
20°	277.4	266.1	242.1	218.0	197.2	174.8	158.7	147.5	139.5	136.3	136.3
22.5°	298.2	283.8	254.9	226.1	200.4	176.4	158.7	144.3	134.7	129.9	129.9
25°	322.3	304.6	269.4	237.3	205.2	179.6	157.1	139.5	129.9	125.1	125.1
27.5°	351.1	331.9	285.4	248.5	211.6	182.8	155.5	137.9	126.7	120.2	120.2
30°	384.8	360.7	306.2	261.3	219.6	184.4	157.1	136.3	123.5	117.0	115.4
32.5°	429.7	397.6	330.3	275.8	229.3	187.6	157.1	133.1	120.2	113.8	113.8
35°	484.2	442.5	359.1	291.8	237.3	192.4	157.1	133.1	117.0	110.6	109.0
37.5°	551.5	495.4	394.4	311.0	248.5	197.2	157.1	131.5	113.8	107.4	105.8
40°	631.7	559.5	432.9	333.5	259.7	202.0	160.3	129.9	113.8	105.8	105.8
42.5°	721.5	636.5	481.0	362.3	275.8	210.0	161.9	129.9	112.2	102.6	102.6
45°	819.3	721.5	537.1	397.6	295.0	218.0	163.5	131.5	109.0	101.0	99.4
47.5°	926.7	811.3	599.6	432.9	312.6	227.7	166.7	129.9	107.4	99.4	97.8
50°	1026.1	905.9	668.6	473.0	333.5	235.7	169.9	128.3	105.8	97.8	96.2
52.5°	1122.3	997.2	739.1	516.3	355.9	246.9	173.2	128.3	104.2	94.6	93.0
55°	1213.7	1082.2	808.1	561.1	381.6	258.1	176.4	128.3	102.6	93.0	91.4
57.5°	1297.1	1162.4	872.2	607.6	408.8	269.4	178.0	126.7	101.0	89.8	88.2
60°	1383.6	1240.9	929.9	650.9	434.5	279.0	179.6	125.1	96.2	86.6	85.0
62.5°	1457.4	1306.7	979.6	686.2	448.9	282.2	178.0	120.2	91.4	80.2	78.6
64°	1491.1	1332.3	1003.7	700.6	455.3	282.2	176.4	117.0	86.6	77.0	75.4
65°	1503.9	1345.2	1013.3	707.0	458.5	282.2	173.2	115.4	83.4	75.4	73.8
67.5°	1508.7	1350.0	1019.7	710.3	455.3	275.8	165.1	107.4	70.5	67.3	65.7
70°	1463.8	1309.9	989.2	687.8	436.1	259.7	153.9	96.2	59.3	56.1	57.7
72.5°	1362.8	1220.1	923.5	636.5	400.8	235.7	136.3	83.4	49.7	48.1	49.7
75°	1199.3	1071.0	809.7	554.7	347.9	203.6	115.4	65.7	38.5	40.1	41.7
77.5°	994.0	883.4	655.7	445.7	275.8	158.7	88.2	44.9	28.9	32.1	32.1
80°	727.9	641.3	469.8	311.0	190.8	105.8	54.5	27.3	19.2	22.4	22.4
82.5°	434.5	373.6	266.1	173.2	102.6	51.3	24.0	11.2	9.6	12.8	12.8
85°	153.9	126.7	81.8	48.1	25.7	11.2	4.8	1.6	1.6	0.0	0.0
87.5°	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)