

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: STREETWORKS

Report Number: P799510

Luminaire Tested: **ARCH2-30-730-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799510
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-30-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 260mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

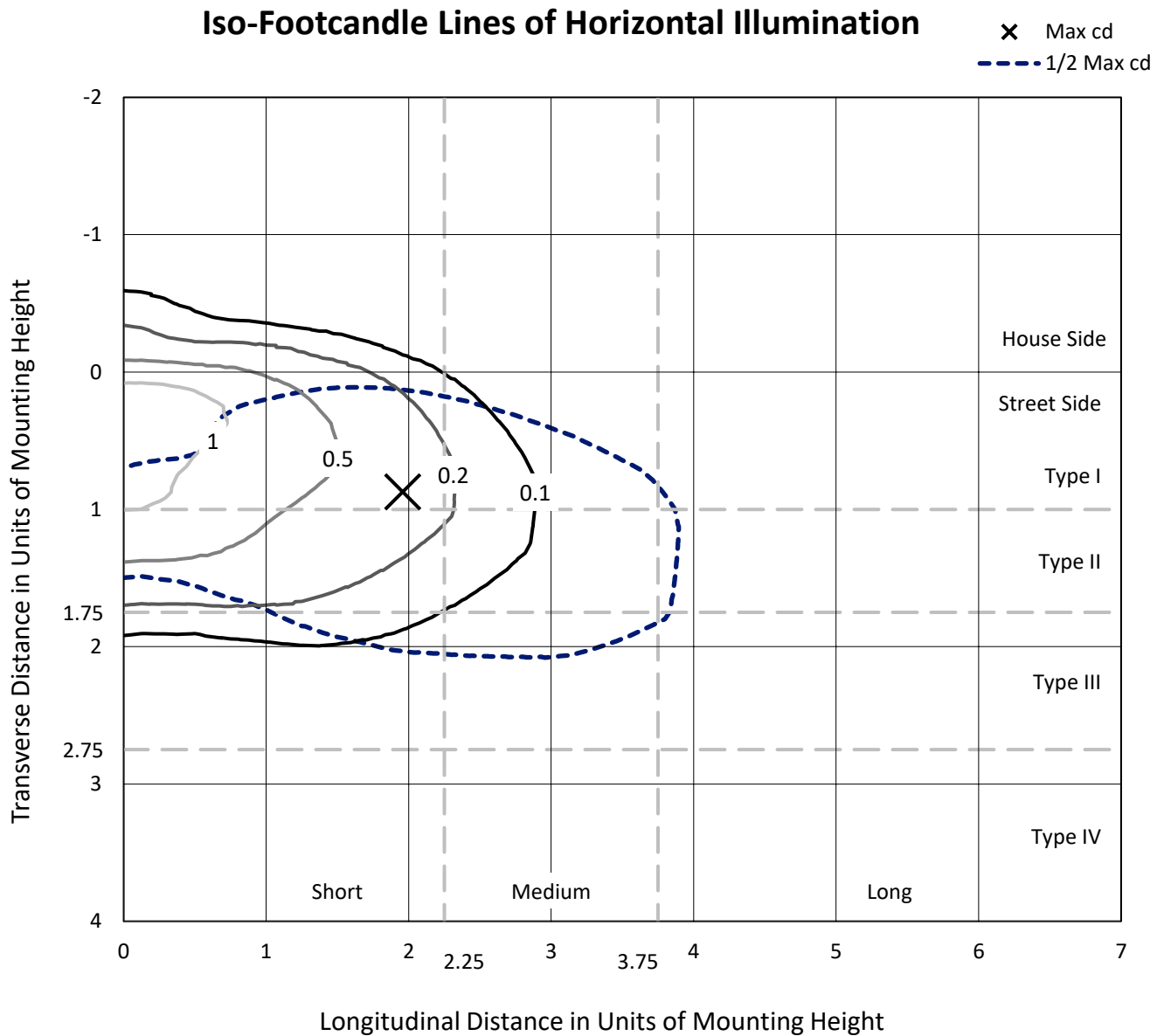
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3553 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 34.4
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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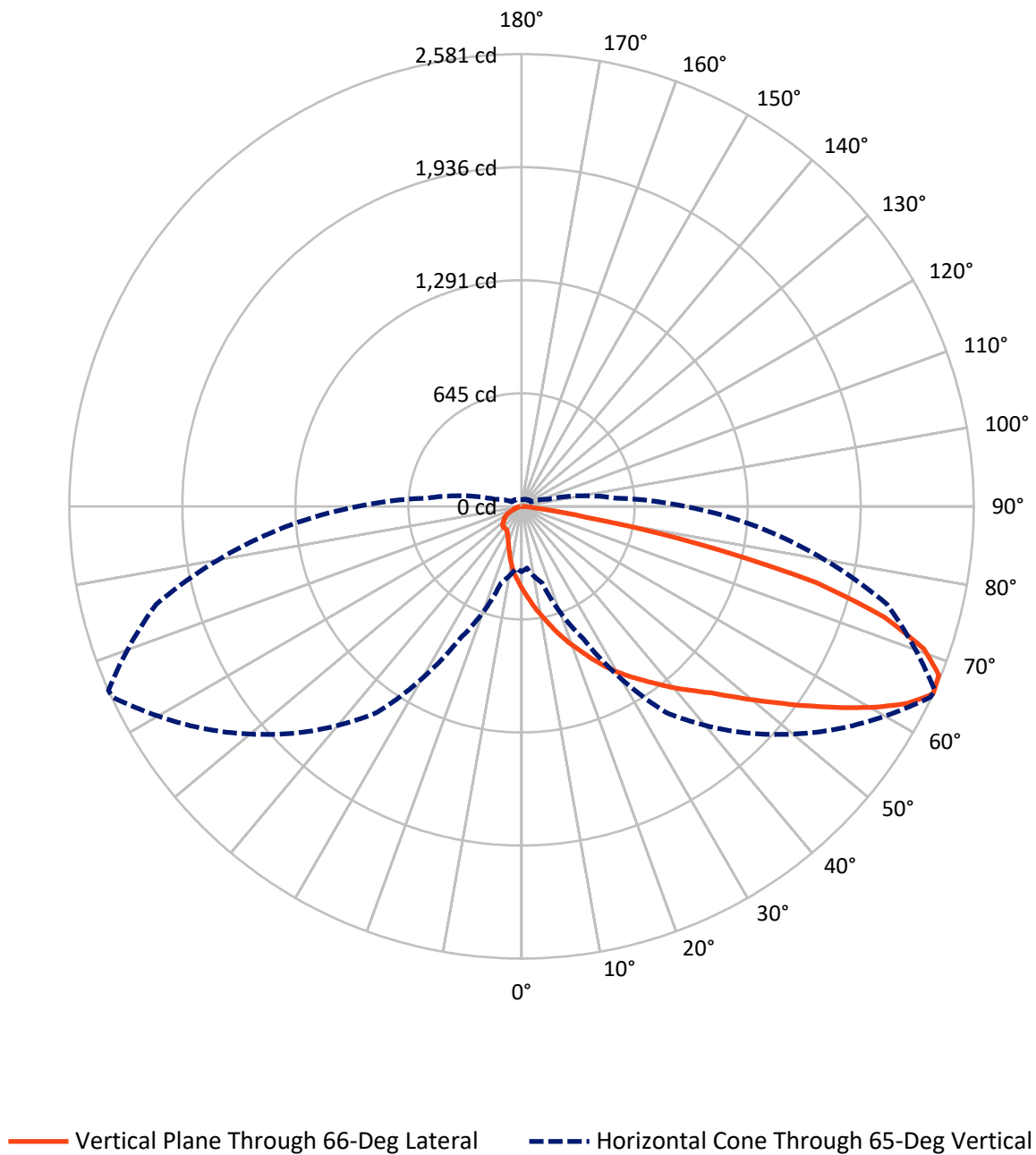


Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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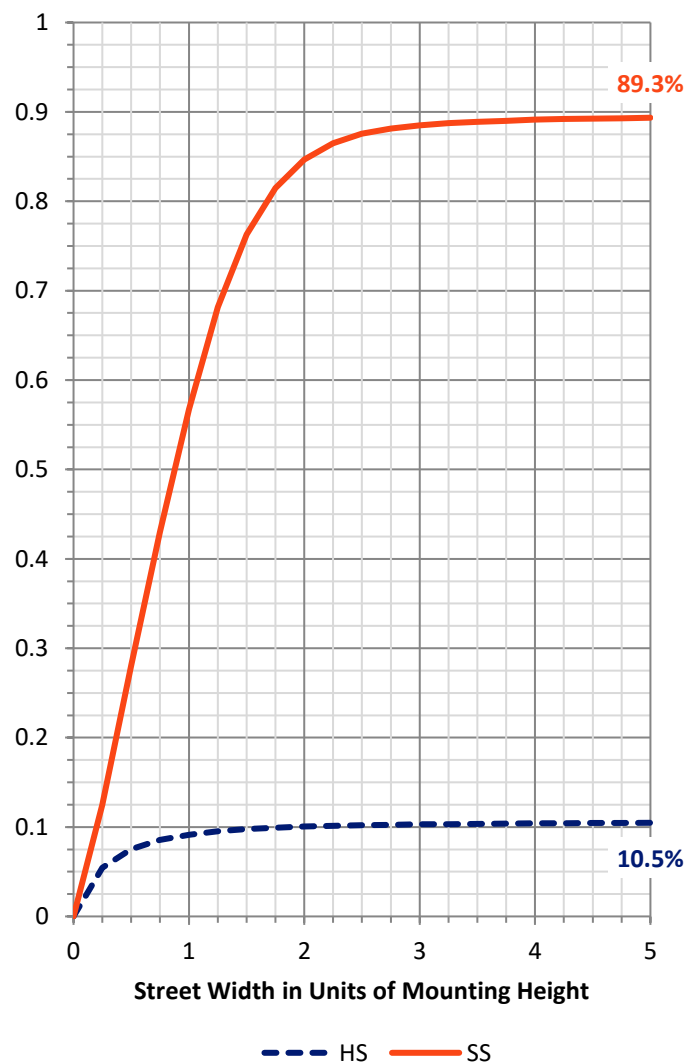
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	375.8	0.0	375.8
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	3177.2	0.0	3177.2
	% Fixture	89.4	0.0	89.4
Total	Lumens	3553.0	0.0	3553.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.4	1.3
10°-20°	151.3	4.3
20°-30°	273.7	7.7
30°-40°	428.0	12.0
40°-50°	649.2	18.3
50°-60°	824.9	23.2
60°-70°	770.8	21.7
70°-80°	383.1	10.8
80°-90°	25.7	0.7
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°	3553.0	100.0
0°-180°	3553.0	100.0

Coefficient of Utilization



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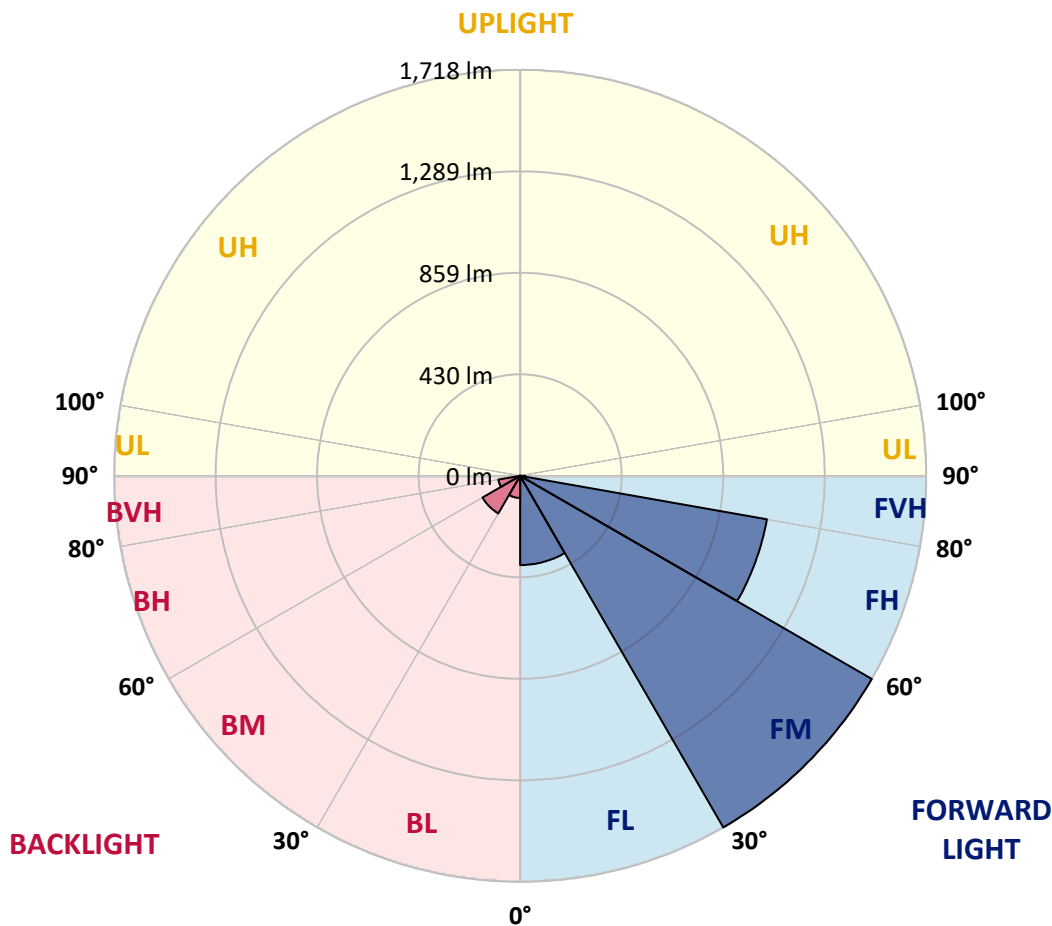
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	377.5	10.6			
FM	(30°-60°)	1718.3	48.4			
FH	(60°-80°)	1060.2	29.8			G1/1800
FVH	(80°-90°)	21.2	0.6			G1/100
BL	(0°-30°)	93.9	2.6	B0/110		
BM	(30°-60°)	183.8	5.2	B0/220		
BH	(60°-80°)	93.6	2.6	B0/110		G0/110
BVH	(80°-90°)	4.6	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2
2.5°	549.2	553.7	555.9	556.7	539.5	532.1	524.6	507.5	503.8	494.1	481.4
5°	646.1	652.0	650.6	647.6	626.7	602.9	583.5	551.4	546.2	523.1	494.8
7.5°	741.5	746.7	745.2	734.0	710.9	677.4	645.3	598.4	590.9	553.7	508.2
10°	821.2	825.7	824.9	813.8	786.2	745.2	706.4	643.9	634.9	582.0	519.4
12.5°	886.8	892.7	892.0	884.6	860.0	815.2	771.3	696.0	684.8	616.3	535.1
15°	938.2	945.7	945.7	942.7	925.5	888.3	838.3	753.4	740.0	655.8	554.4
17.5°	969.5	975.5	980.7	985.9	974.0	945.7	900.2	810.8	796.6	694.5	574.5
20°	985.9	991.9	995.6	1006.8	1009.0	994.8	959.1	867.4	852.5	738.5	597.6
22.5°	1012.7	1017.9	1018.7	1028.4	1032.8	1036.6	1014.2	923.3	911.4	786.9	623.7
25°	1057.4	1063.4	1061.2	1065.6	1066.4	1070.8	1068.6	987.4	975.5	842.1	655.0
27.5°	1114.8	1122.3	1120.8	1116.3	1109.6	1105.9	1115.6	1052.2	1041.0	897.2	687.1
30°	1176.7	1185.6	1183.4	1174.4	1156.5	1140.9	1154.3	1113.3	1102.9	953.9	722.8
32.5°	1239.3	1249.7	1249.0	1234.0	1203.5	1176.7	1196.8	1170.7	1163.3	1015.0	761.6
35°	1280.3	1293.7	1292.2	1283.2	1243.7	1220.6	1245.2	1229.6	1224.4	1089.5	817.5
37.5°	1346.6	1360.7	1348.1	1325.7	1280.3	1268.3	1298.1	1295.9	1292.2	1168.5	876.4
40°	1507.5	1528.4	1494.9	1403.2	1328.7	1318.3	1360.7	1369.7	1365.9	1246.7	929.3
42.5°	1676.0	1707.2	1655.1	1528.4	1416.6	1378.6	1429.3	1442.0	1437.5	1313.8	977.0
45°	1778.0	1791.5	1739.3	1640.9	1572.4	1451.6	1502.3	1523.2	1519.5	1394.3	1038.1
47.5°	1861.5	1856.3	1796.7	1730.4	1743.0	1554.5	1585.0	1626.0	1623.0	1482.9	1105.1
50°	1879.4	1867.5	1843.6	1801.9	1835.4	1658.8	1672.2	1743.0	1740.0	1581.3	1172.9
52.5°	1753.5	1737.8	1802.6	1837.7	1826.5	1734.8	1768.4	1871.2	1869.7	1687.9	1237.8
55°	1439.0	1426.3	1600.7	1781.8	1816.8	1788.5	1874.9	2004.6	2012.8	1801.1	1296.6
57.5°	1132.0	1118.5	1289.9	1641.7	1781.0	1837.7	1999.4	2157.3	2167.8	1924.1	1352.5
60°	902.4	882.3	1013.5	1421.1	1714.0	1875.7	2119.3	2325.0	2326.5	2036.6	1386.8
62.5°	613.3	590.9	736.3	1141.6	1601.4	1881.6	2211.7	2469.6	2475.5	2120.8	1392.8
65°	372.6	354.0	452.3	833.9	1435.3	1831.0	2213.2	2576.2	2581.4	2159.6	1357.0
67.5°	216.1	208.7	258.6	519.4	1159.5	1694.6	2120.1	2559.8	2569.4	2143.2	1275.8
70°	125.9	125.2	143.8	257.1	818.2	1424.1	1912.2	2421.9	2436.1	2057.5	1151.3
72.5°	92.4	93.9	101.3	137.9	473.9	1025.4	1619.3	2144.7	2166.3	1889.8	974.0
75°	73.0	73.8	80.5	93.9	248.9	579.8	1213.2	1721.4	1738.5	1591.0	760.8
77.5°	54.4	55.9	61.1	66.3	115.5	266.0	682.6	1060.4	1032.1	873.4	367.4
80°	39.5	43.2	45.5	47.7	61.1	102.8	204.9	369.6	366.6	381.5	173.6
82.5°	25.3	28.3	30.6	32.0	36.5	49.2	61.1	82.7	89.4	148.3	69.3
85°	11.2	12.7	14.2	17.1	15.6	17.1	25.3	16.4	14.2	22.4	12.7
87.5°	0.0	0.0	2.2	3.7	3.0	1.5	4.5	3.0	2.2	2.2	2.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2
2.5°	474.7	466.5	449.4	433.0	423.3	410.6	399.4	389.0	388.2	385.3	380.1
5°	480.7	465.0	433.0	402.4	379.3	354.7	333.8	317.5	311.5	307.0	301.1
7.5°	486.6	462.0	414.3	369.6	333.1	298.8	274.2	251.9	245.2	239.2	235.5
10°	488.9	456.8	392.7	333.1	285.4	248.9	222.8	206.4	200.5	197.5	195.2
12.5°	495.6	453.8	372.6	298.8	243.7	210.1	191.5	181.8	179.6	177.4	175.1
15°	504.5	453.8	352.5	265.3	210.9	184.1	172.9	166.2	164.7	163.9	162.5
17.5°	514.2	453.8	333.1	237.0	187.0	166.9	158.7	155.0	154.3	153.5	152.8
20°	527.6	454.6	312.2	212.4	169.9	154.3	147.5	143.1	142.3	141.6	141.6
22.5°	541.0	456.1	292.1	193.8	158.7	144.6	136.4	131.9	130.4	130.4	130.4
25°	558.2	460.5	273.5	178.1	149.0	135.6	125.2	121.5	120.7	120.7	120.0
27.5°	578.3	465.7	257.1	166.2	139.4	125.2	114.8	111.0	109.5	109.5	108.8
30°	599.9	471.0	243.7	157.2	129.7	114.8	105.1	100.6	99.1	99.9	99.1
32.5°	623.7	478.4	233.2	151.3	120.7	105.8	96.9	91.7	90.9	90.9	90.2
35°	664.0	499.3	231.8	148.3	113.3	99.1	90.2	85.0	84.2	84.2	83.5
37.5°	707.2	523.1	238.5	146.8	107.3	93.1	85.0	79.7	79.0	79.0	79.0
40°	743.7	541.0	245.9	146.8	103.6	87.9	80.5	76.0	76.0	76.0	76.0
42.5°	768.3	542.5	244.4	146.8	100.6	84.2	77.5	73.0	73.0	73.8	73.0
45°	804.8	550.0	238.5	144.6	98.4	81.2	74.5	70.8	70.0	70.8	70.8
47.5°	848.0	563.4	232.5	135.6	97.6	78.2	72.3	67.8	67.1	67.8	67.1
50°	889.0	575.3	229.5	123.7	96.1	75.3	69.3	64.8	64.1	64.8	64.1
52.5°	923.3	580.5	224.3	115.5	92.4	72.3	66.3	61.9	60.4	61.1	61.1
55°	950.9	579.0	216.9	108.8	85.7	69.3	62.6	58.9	56.6	56.6	55.9
57.5°	976.2	579.8	210.1	102.1	78.2	64.8	59.6	55.1	52.2	51.4	50.7
60°	985.9	576.0	198.2	93.1	70.8	61.1	55.9	50.7	47.7	46.9	46.2
62.5°	972.5	562.6	182.6	77.5	64.1	56.6	52.2	46.9	44.0	43.2	42.5
65°	934.5	537.3	158.7	61.1	58.1	51.4	47.7	44.0	40.2	38.8	38.0
67.5°	869.6	500.8	128.9	49.2	51.4	46.9	44.7	40.2	35.8	34.3	33.5
70°	777.2	452.3	96.9	41.7	45.5	41.7	40.2	35.8	32.0	30.6	29.8
72.5°	647.6	374.1	67.8	35.8	39.5	36.5	35.0	32.0	28.3	26.1	26.1
75°	489.6	268.3	44.7	30.6	32.8	31.3	29.1	26.8	24.6	23.1	22.4
77.5°	210.9	104.3	27.6	23.1	26.8	26.1	23.1	21.6	20.9	19.4	19.4
80°	90.9	42.5	17.1	17.1	19.4	18.6	17.9	16.4	16.4	15.6	14.9
82.5°	33.5	17.1	10.4	12.7	14.2	12.7	12.7	12.7	12.7	11.9	11.9
85°	8.2	5.2	5.2	7.5	8.2	7.5	8.2	7.5	7.5	7.5	6.7
87.5°	2.2	2.2	3.0	3.0	3.0	3.0	3.0	2.2	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)