

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: P798840

Luminaire Tested: **ARCH1-40-722-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798840
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-40-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1220mA LIGHTSQUARE WITH 10 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

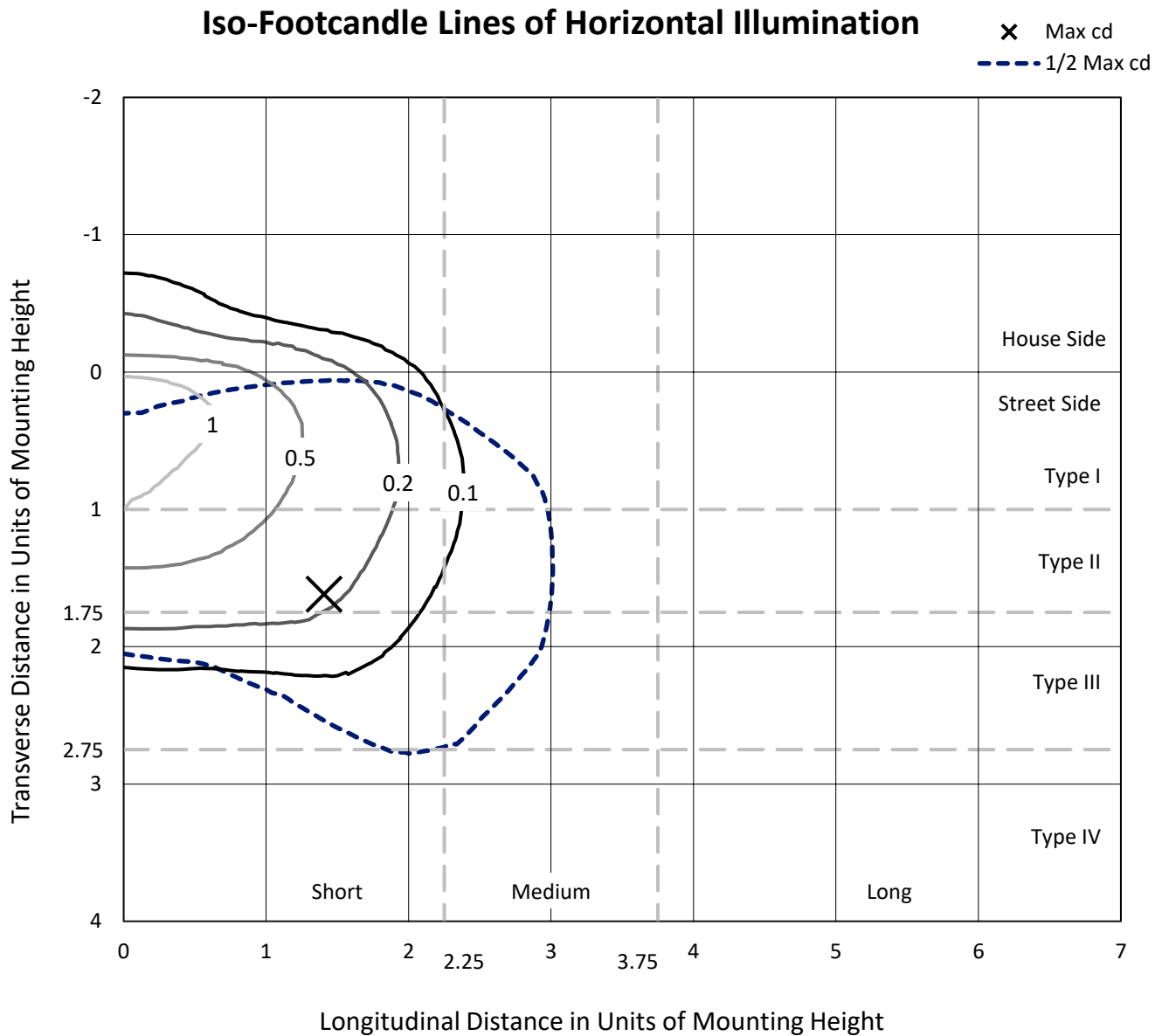
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3396 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 43
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



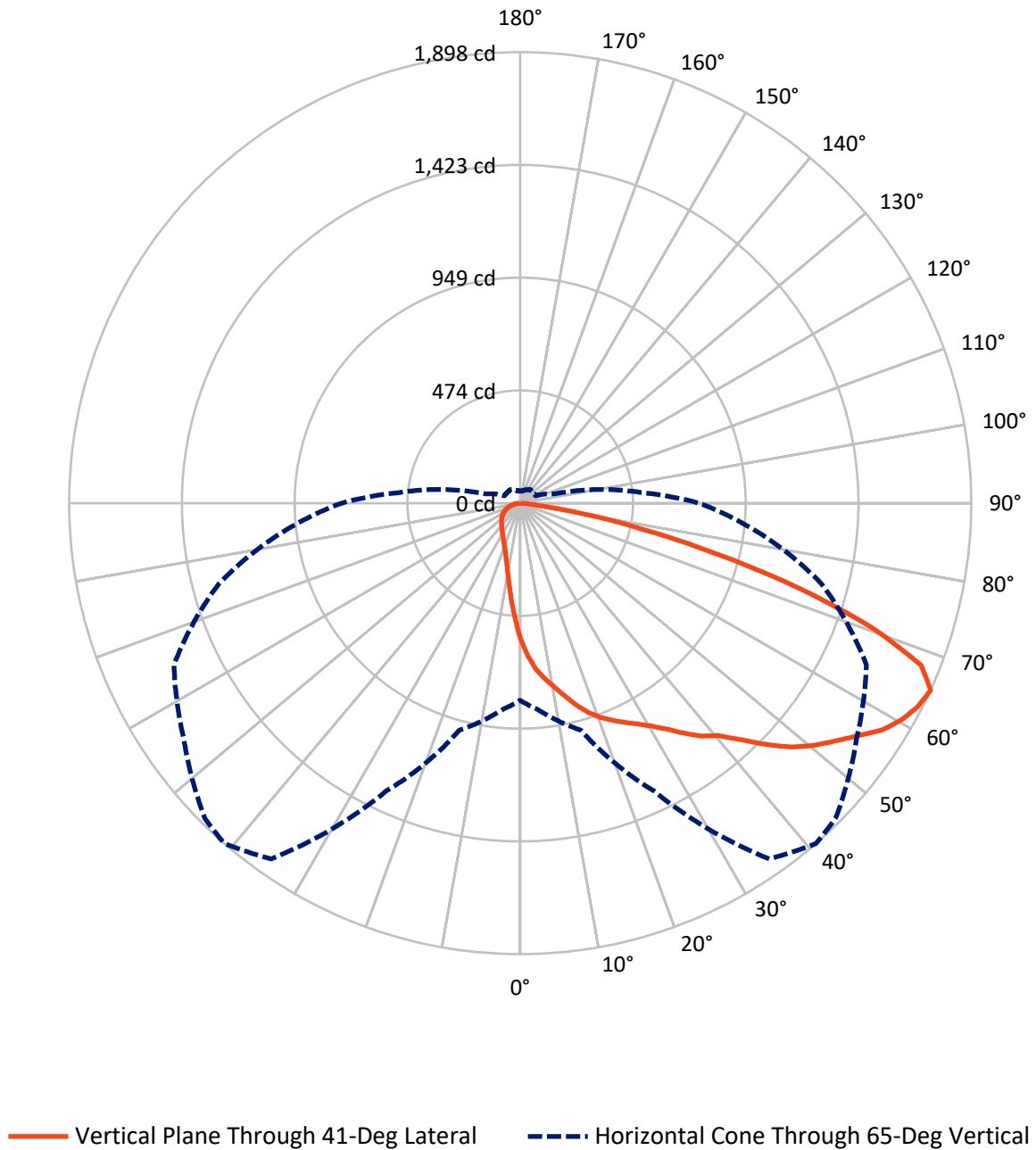
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Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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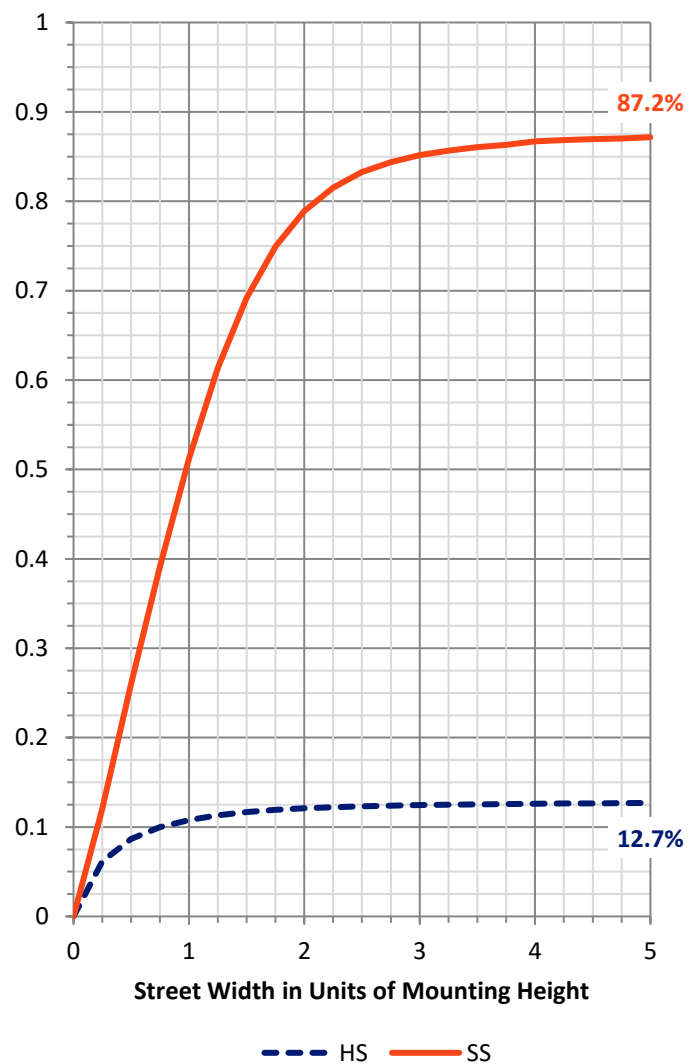
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	436.0	0.0	436.0
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	2960.0	0.0	2960.0
	% Fixture	87.2	0.0	87.2
Total	Lumens	3396.0	0.0	3396.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	1.6
10°-20°	161.7	4.8
20°-30°	278.1	8.2
30°-40°	421.8	12.4
40°-50°	618.0	18.2
50°-60°	780.4	23.0
60°-70°	731.8	21.5
70°-80°	326.1	9.6
80°-90°	24.2	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°	3396.0	100.0
0°-180°	3396.0	100.0

Coefficient of Utilization



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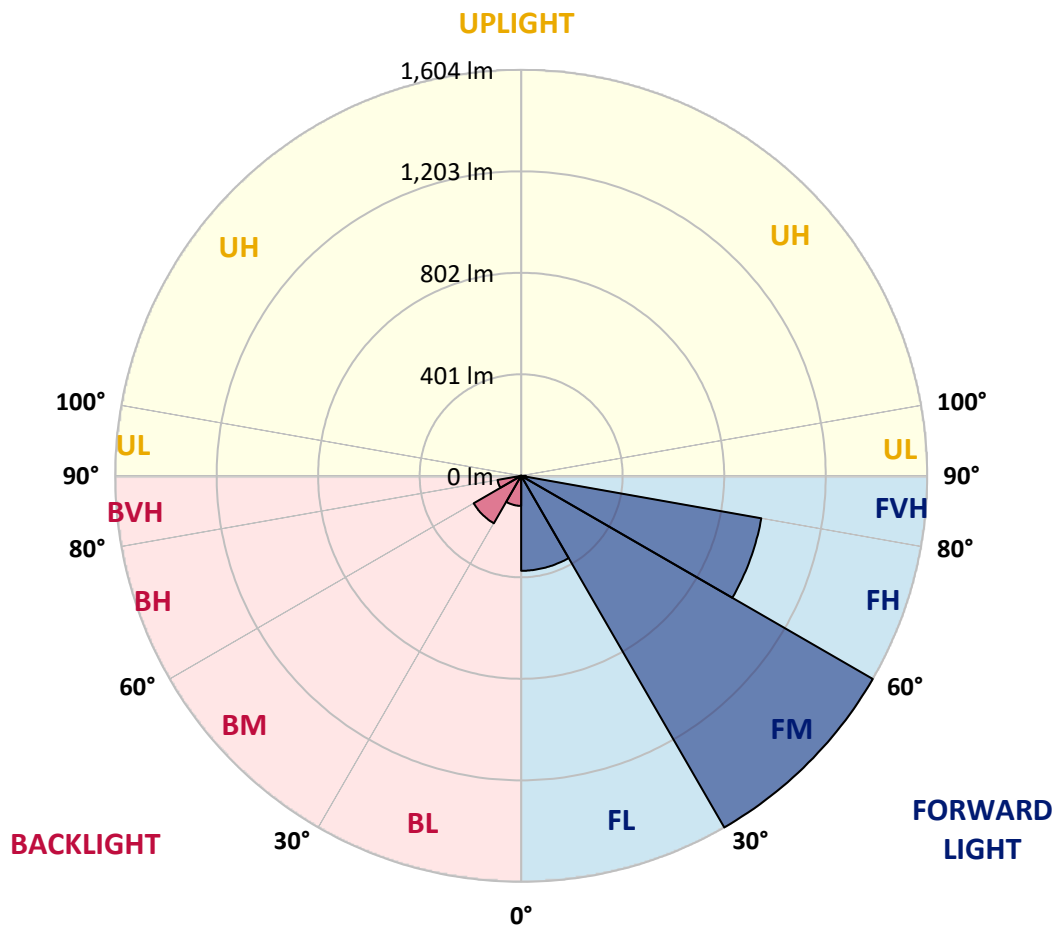
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	375.0	11.0			
FM	(30°-60°)	1603.7	47.2			
FH	(60°-80°)	963.2	28.4			G1/1800
FVH	(80°-90°)	18.0	0.5			G1/100
BL	(0°-30°)	118.7	3.5	B1/500		
BM	(30°-60°)	216.5	6.4	B0/220		
BH	(60°-80°)	94.7	2.8	B0/110		G0/110
BVH	(80°-90°)	6.1	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7
2.5°	667.5	665.3	663.9	656.0	656.0	645.3	646.0	636.0	623.8	604.4	583.7
5°	730.5	727.6	724.0	716.2	713.3	702.6	701.1	686.8	666.0	632.4	595.1
7.5°	785.6	782.8	777.8	766.3	758.4	745.5	741.9	723.3	700.4	658.9	606.6
10°	835.8	833.6	827.2	812.8	802.1	786.3	779.9	754.8	726.2	680.4	615.9
12.5°	886.6	883.7	875.2	863.0	850.1	831.5	823.6	791.4	754.8	704.0	629.5
15°	933.9	929.6	923.1	910.2	898.8	880.9	872.3	834.3	789.9	730.5	647.4
17.5°	964.7	961.1	955.4	948.2	938.9	925.3	916.7	879.4	825.0	756.3	666.0
20°	983.3	981.9	979.7	975.4	971.1	961.8	955.4	920.3	863.0	781.3	683.9
22.5°	997.6	996.2	995.5	995.5	996.2	992.6	988.3	958.2	899.5	807.8	700.4
25°	1019.8	1019.1	1017.7	1016.2	1021.3	1022.0	1020.5	999.8	945.3	842.9	721.2
27.5°	1050.6	1048.5	1045.6	1044.2	1049.2	1052.8	1055.6	1041.3	994.0	878.7	744.8
30°	1097.9	1091.4	1084.3	1079.3	1082.8	1088.6	1095.0	1086.4	1044.2	923.1	769.2
32.5°	1153.7	1145.9	1129.4	1120.1	1129.4	1133.7	1138.7	1134.4	1096.4	971.1	793.5
35°	1221.8	1212.5	1195.3	1181.7	1198.1	1188.8	1186.7	1182.4	1145.9	1018.4	820.7
37.5°	1334.9	1321.3	1294.1	1264.0	1264.0	1244.0	1236.1	1223.2	1190.3	1060.6	847.2
40°	1466.0	1448.1	1413.0	1368.6	1327.8	1286.2	1281.2	1271.9	1242.5	1109.3	877.3
42.5°	1609.9	1575.6	1526.9	1473.1	1407.3	1360.0	1348.5	1322.0	1293.4	1158.8	907.4
45°	1769.6	1698.0	1627.1	1599.9	1491.1	1448.1	1426.6	1378.6	1346.4	1210.3	938.9
47.5°	1795.4	1739.6	1692.3	1688.0	1569.1	1533.3	1509.0	1440.2	1403.7	1265.5	971.8
50°	1781.1	1747.4	1752.5	1735.3	1626.4	1602.8	1584.2	1506.1	1460.3	1318.5	1001.9
52.5°	1720.9	1739.6	1768.2	1736.7	1680.8	1661.5	1652.2	1577.0	1513.3	1367.2	1029.1
55°	1649.3	1662.2	1723.8	1762.5	1743.9	1726.7	1718.1	1659.4	1565.5	1408.0	1054.2
57.5°	1544.8	1539.0	1607.1	1758.2	1809.7	1799.7	1790.4	1740.3	1614.2	1437.3	1069.9
60°	1387.9	1375.8	1461.7	1672.2	1831.2	1847.0	1842.7	1794.0	1651.5	1436.6	1063.5
62.5°	1116.5	1146.6	1265.5	1531.9	1840.5	1880.6	1872.8	1798.3	1663.6	1395.1	1022.7
65°	830.0	873.0	989.7	1338.5	1827.7	1897.8	1876.4	1728.1	1607.1	1312.7	933.2
67.5°	598.0	636.0	721.2	1101.5	1703.8	1819.1	1794.0	1613.5	1476.7	1196.0	809.3
70°	408.9	436.1	494.2	802.1	1454.5	1572.7	1556.9	1442.4	1271.2	1057.1	657.4
72.5°	288.6	300.1	337.3	529.2	1105.0	1234.0	1215.3	1186.7	1021.3	878.7	511.3
75°	216.3	223.4	243.5	342.3	745.5	855.1	837.9	854.4	762.7	665.3	372.4
77.5°	81.6	88.8	138.2	218.4	441.2	524.9	507.8	517.8	424.0	335.9	185.5
80°	22.2	23.6	45.8	103.8	200.5	261.4	237.8	204.1	157.6	154.7	98.1
82.5°	9.3	10.7	20.8	55.9	71.6	71.6	60.2	74.5	60.2	72.3	47.3
85°	3.6	4.3	5.0	14.3	9.3	10.0	10.7	14.3	12.2	15.0	10.7
87.5°	0.0	0.0	0.0	0.7	0.7	1.4	0.7	1.4	2.1	2.1	2.1
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°	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7	578.7
2.5°	575.1	567.2	555.7	537.1	517.8	507.0	493.4	491.3	477.0	475.5	469.8
5°	578.7	562.2	532.8	497.0	461.9	434.7	414.7	403.9	383.1	383.1	377.4
7.5°	581.5	555.7	508.5	455.5	407.5	371.0	343.8	332.3	313.7	312.2	308.0
10°	582.2	547.9	482.0	413.2	354.5	317.3	290.8	277.9	261.4	260.0	257.1
12.5°	588.0	543.6	458.3	376.7	316.5	276.4	250.7	239.9	227.0	225.6	222.7
15°	597.3	543.6	438.3	345.9	282.9	245.6	223.4	213.4	204.1	202.7	201.2
17.5°	606.6	542.1	418.2	317.3	255.0	221.3	202.0	194.1	186.9	186.2	184.8
20°	615.2	541.4	398.2	292.9	233.5	201.2	186.2	179.0	173.3	173.3	172.6
22.5°	623.8	540.0	378.9	270.0	214.8	186.2	173.3	165.4	161.1	161.1	160.4
25°	636.7	540.0	360.9	250.7	199.8	174.7	161.9	156.1	152.5	151.8	151.8
27.5°	651.7	544.3	345.2	233.5	186.9	163.3	153.3	147.5	143.2	141.8	142.5
30°	668.2	547.9	330.9	218.4	174.7	154.7	143.9	138.2	133.9	132.5	133.2
32.5°	684.7	552.2	318.0	204.8	162.6	146.8	136.1	129.6	125.3	124.6	124.6
35°	702.6	556.5	305.1	193.4	152.5	138.9	128.9	121.7	118.9	117.5	118.2
37.5°	720.5	563.6	292.9	182.6	145.4	131.8	122.5	115.3	113.2	112.4	112.4
40°	741.9	574.4	287.9	175.5	138.9	125.3	117.5	110.3	108.1	108.1	108.1
42.5°	759.9	583.0	283.6	167.6	133.9	119.6	112.4	106.7	105.3	104.6	105.3
45°	777.8	590.8	277.9	160.4	127.5	113.9	108.1	102.4	101.0	101.0	101.0
47.5°	795.7	595.1	270.0	153.3	121.7	108.9	103.8	98.8	97.4	97.4	97.4
50°	810.0	598.7	258.5	145.4	115.3	104.6	99.5	94.5	93.1	93.1	93.1
52.5°	824.3	599.4	246.4	136.1	108.9	99.5	95.2	90.2	88.8	88.1	88.1
55°	837.2	598.7	232.0	125.3	101.7	93.8	90.2	85.9	83.1	80.2	81.6
57.5°	846.5	598.0	215.6	114.6	94.5	88.1	86.7	80.9	75.2	68.0	69.5
60°	842.9	590.1	197.7	101.0	86.7	82.4	82.4	74.5	64.5	60.9	61.6
62.5°	820.0	567.9	179.0	86.7	78.8	76.6	75.9	67.3	59.4	55.9	56.6
65°	751.3	512.1	151.8	73.8	70.9	70.2	70.2	62.3	55.1	50.8	51.6
67.5°	646.7	429.7	123.9	62.3	63.0	64.5	64.5	57.3	50.1	45.8	46.6
70°	518.5	335.9	98.8	53.7	54.4	56.6	58.0	51.6	45.1	40.8	40.8
72.5°	390.3	255.0	79.5	45.1	48.7	48.7	50.8	45.8	39.4	35.1	35.8
75°	282.9	182.6	63.0	38.0	42.3	41.5	41.5	38.7	33.7	30.8	30.8
77.5°	133.9	96.0	50.1	27.2	32.9	32.2	32.9	30.8	28.6	25.8	26.5
80°	65.9	47.3	32.2	19.3	22.9	23.6	25.8	24.3	23.6	21.5	21.5
82.5°	31.5	18.6	15.0	13.6	15.8	16.5	17.9	17.9	18.6	17.2	17.2
85°	8.6	5.0	6.4	8.6	10.0	10.7	12.2	12.9	12.9	12.2	12.9
87.5°	2.1	2.1	2.9	4.3	5.0	5.7	6.4	6.4	2.9	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)