

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: P799732

Luminaire Tested: **ARCH2-50-722-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799732
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-50-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 410mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4513 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 54
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

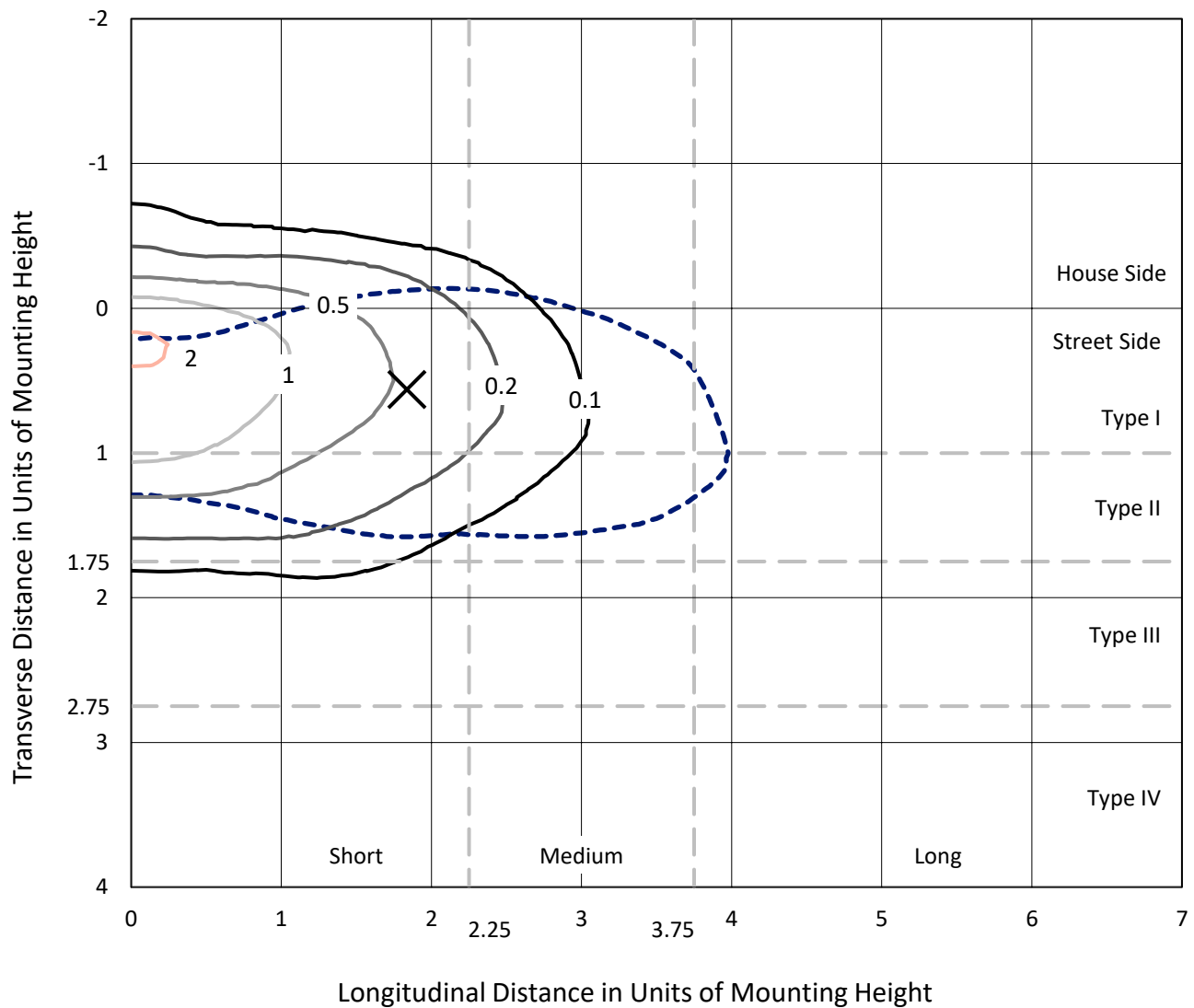


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Iso-Footcandle Lines of Horizontal Illumination

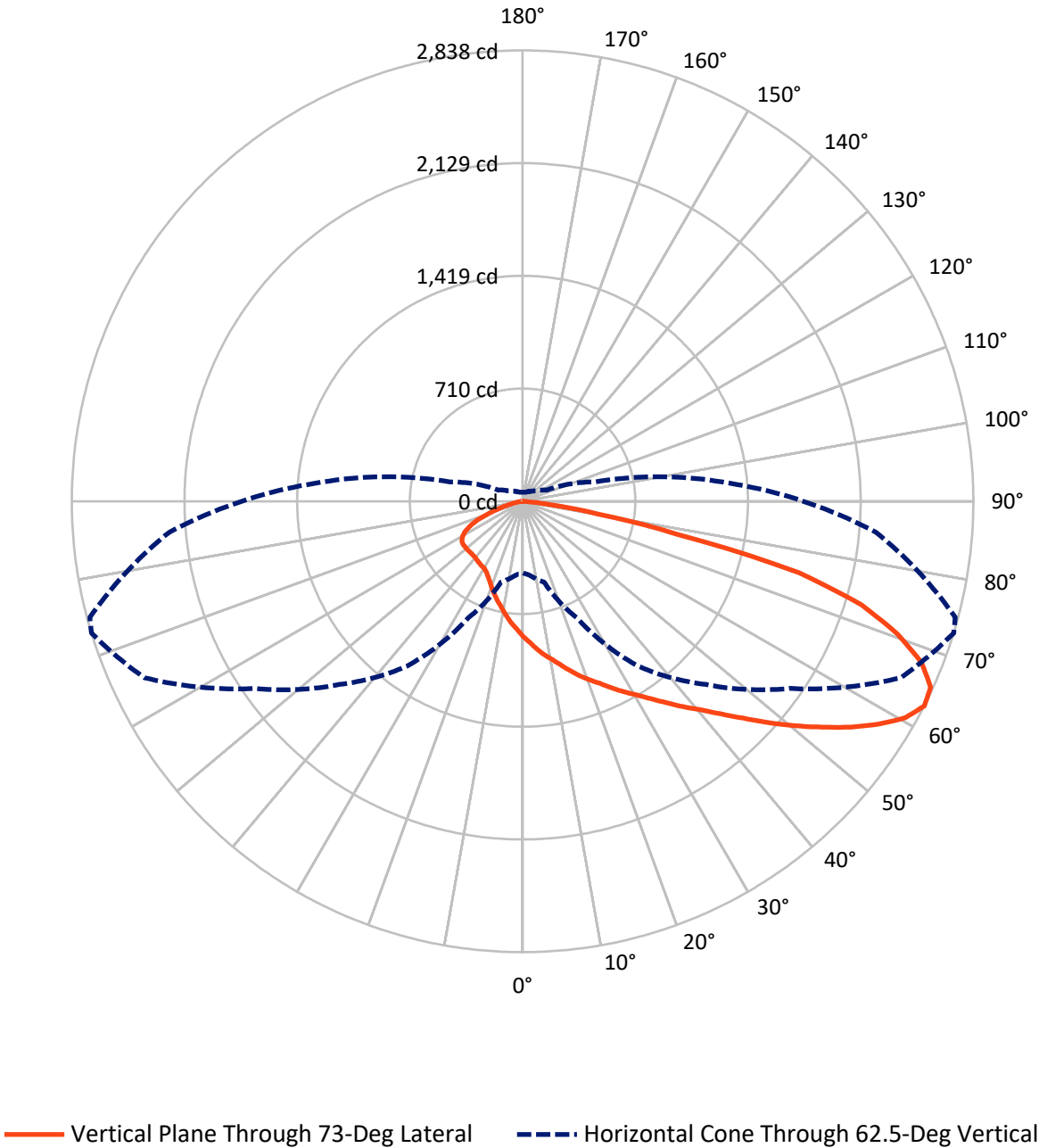
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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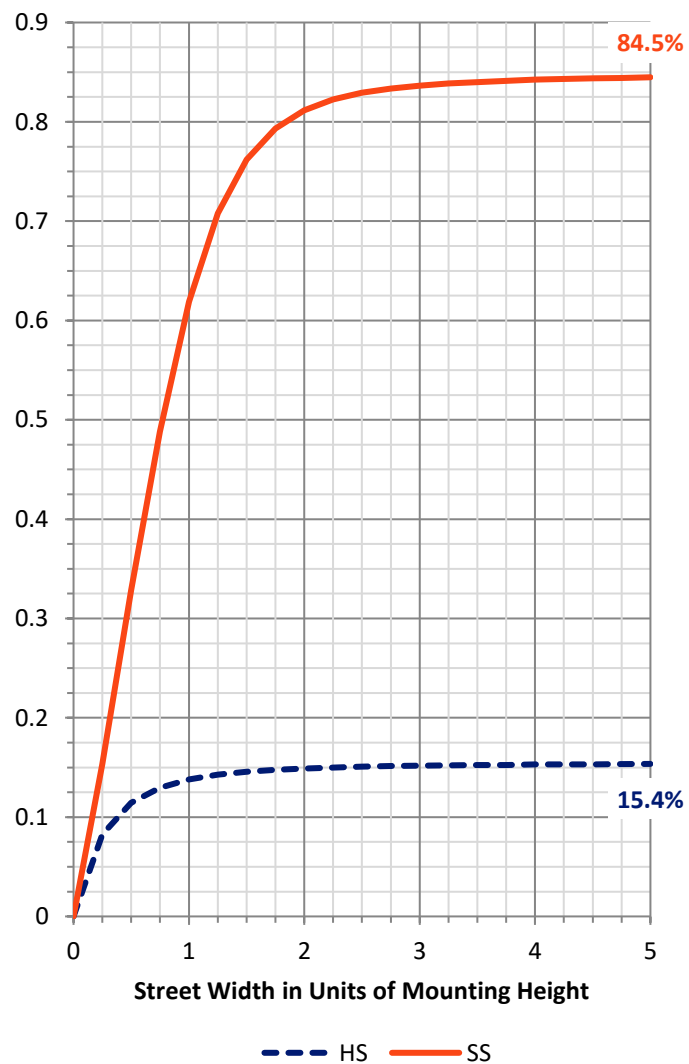
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	699.6	0.0	699.6
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	3813.4	0.0	3813.4
	% Fixture	84.5	0.0	84.5
Total	Lumens	4513.0	0.0	4513.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.6	1.8
10°-20°	249.1	5.5
20°-30°	414.6	9.2
30°-40°	625.6	13.9
40°-50°	874.5	19.4
50°-60°	965.9	21.4
60°-70°	841.5	18.6
70°-80°	425.1	9.4
80°-90°	34.1	0.8
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°	4513.0	100.0
0°-180°	4513.0	100.0

Coefficient of Utilization



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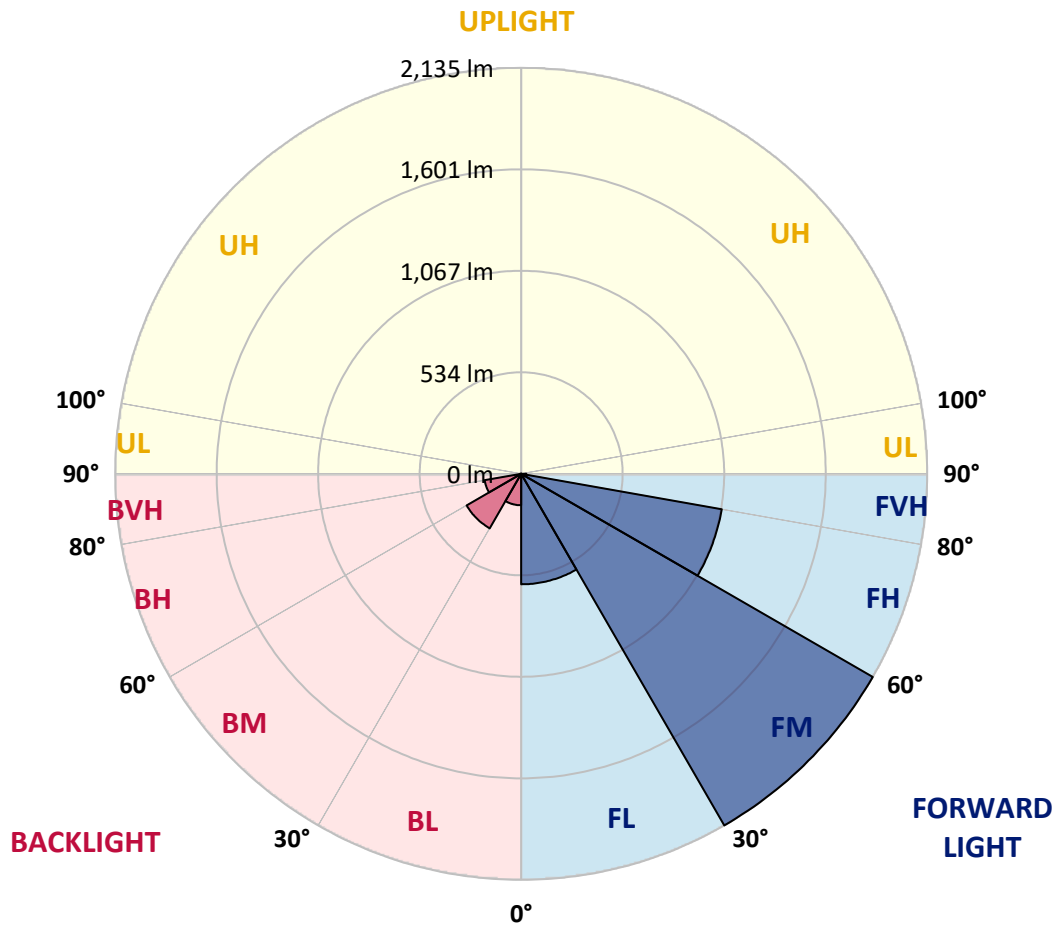
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	581.0	12.9			
FM	(30°-60°)	2134.8	47.3			
FH	(60°-80°)	1071.2	23.7			G1/1800
FVH	(80°-90°)	26.4	0.6			G1/100
BL	(0°-30°)	165.4	3.7	B1/500		
BM	(30°-60°)	331.3	7.3	B1/1000		
BH	(60°-80°)	195.3	4.3	B1/500		G1/500
BVH	(80°-90°)	7.7	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	854.5	854.5	854.5	854.5	854.5	854.5	854.5	854.5	854.5	854.5	854.5
2.5°	972.6	983.4	977.5	981.4	961.7	948.9	934.2	905.7	889.9	888.0	869.3
5°	1115.1	1126.9	1117.1	1114.2	1079.7	1050.2	1016.8	966.6	933.2	927.3	886.0
7.5°	1257.7	1268.5	1256.7	1247.9	1201.7	1149.6	1100.4	1026.6	974.5	964.7	899.8
10°	1358.0	1367.9	1359.0	1350.2	1302.0	1248.9	1179.1	1082.7	1011.9	996.2	908.6
12.5°	1433.7	1439.6	1435.7	1427.8	1382.6	1325.6	1258.7	1145.6	1054.2	1034.5	922.4
15°	1495.7	1505.5	1500.6	1494.7	1451.5	1394.4	1330.5	1211.5	1103.3	1078.8	943.0
17.5°	1537.0	1543.9	1544.9	1544.9	1506.5	1450.5	1388.5	1271.5	1152.5	1121.0	962.7
20°	1555.7	1563.6	1568.5	1576.3	1544.9	1496.7	1433.7	1322.6	1198.7	1163.3	981.4
22.5°	1564.5	1571.4	1584.2	1601.9	1576.3	1536.0	1478.0	1369.8	1244.9	1207.6	1003.0
25°	1571.4	1580.3	1599.0	1632.4	1614.7	1580.3	1530.1	1423.9	1300.0	1261.7	1034.5
27.5°	1590.1	1600.9	1618.6	1658.9	1637.3	1620.6	1585.2	1481.9	1358.0	1318.7	1072.9
30°	1655.0	1663.9	1662.9	1688.4	1661.9	1657.0	1632.4	1538.0	1414.1	1374.7	1118.1
32.5°	1773.0	1781.9	1760.2	1750.4	1692.4	1693.4	1683.5	1598.0	1481.0	1440.6	1170.2
35°	1899.9	1909.7	1881.2	1864.5	1767.1	1738.6	1743.5	1672.7	1555.7	1515.4	1235.1
37.5°	2013.0	2024.8	2000.2	1975.6	1877.2	1811.4	1810.4	1756.3	1641.2	1599.9	1306.9
40°	2074.9	2088.7	2103.4	2089.7	1986.4	1913.6	1882.2	1841.8	1725.8	1683.5	1384.6
42.5°	2104.4	2142.8	2169.3	2160.5	2075.9	2002.1	1964.8	1931.3	1829.1	1787.8	1477.0
45°	2021.8	2022.8	2078.8	2127.0	2111.3	2062.1	2055.2	2031.6	1947.1	1907.7	1581.3
47.5°	1918.5	1910.7	1950.0	2035.6	2079.8	2092.6	2132.9	2142.8	2081.8	2042.5	1687.5
50°	1670.7	1675.7	1803.5	1926.4	2013.0	2095.6	2188.0	2256.8	2220.4	2183.1	1799.6
52.5°	1359.0	1370.8	1517.3	1787.8	1924.4	2066.1	2220.4	2370.9	2362.0	2326.6	1911.7
55°	1089.6	1108.3	1263.6	1556.7	1811.4	2000.2	2234.2	2475.1	2508.6	2476.1	2021.8
57.5°	832.9	852.6	983.4	1284.3	1666.8	1893.0	2224.4	2566.6	2645.3	2624.6	2123.1
60°	627.4	647.1	730.6	1041.4	1485.9	1773.0	2175.2	2626.6	2768.2	2746.5	2196.8
62.5°	449.4	465.1	527.1	810.3	1265.6	1630.4	2054.3	2627.6	2838.0	2820.3	2232.2
65°	323.5	323.5	373.7	578.2	1059.1	1459.3	1871.3	2506.6	2823.2	2818.3	2207.7
67.5°	233.1	235.0	275.3	404.2	844.7	1251.8	1634.4	2291.2	2709.2	2733.8	2119.2
70°	165.2	170.1	188.8	282.2	638.2	988.3	1380.6	2009.0	2503.7	2546.9	1948.1
72.5°	127.8	130.8	143.6	196.7	466.1	734.6	1100.4	1694.3	2229.3	2278.5	1715.0
75°	98.3	101.3	111.1	144.6	334.3	515.3	781.8	1314.8	1797.6	1885.1	1377.7
77.5°	71.8	75.7	82.6	105.2	194.7	327.5	474.0	739.5	992.2	1033.5	721.8
80°	33.4	38.4	48.2	67.9	105.2	154.4	168.2	285.2	476.9	498.6	391.4
82.5°	18.7	23.6	27.5	41.3	53.1	55.1	57.0	71.8	180.0	198.6	164.2
85°	8.9	11.8	12.8	17.7	17.7	15.7	18.7	13.8	29.5	35.4	34.4
87.5°	0.0	1.0	2.0	4.9	3.9	3.0	3.0	3.0	3.0	3.9	3.0
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°	854.5	854.5	854.5	854.5	854.5	854.5	854.5	854.5	854.5	854.5	854.5
2.5°	860.4	847.7	818.2	792.6	775.9	761.1	741.5	732.6	716.9	719.8	711.0
5°	865.4	841.8	789.6	741.5	706.1	674.6	640.2	620.5	598.9	596.9	590.0
7.5°	868.3	831.9	757.2	689.3	635.3	587.1	540.9	515.3	488.7	482.8	476.9
10°	865.4	817.2	723.8	635.3	563.5	503.5	451.4	418.9	391.4	384.5	378.6
12.5°	868.3	809.3	692.3	585.1	499.6	431.7	372.7	339.3	313.7	306.8	302.9
15°	875.2	804.4	665.7	539.9	442.5	366.8	308.8	280.3	259.6	252.7	250.8
17.5°	881.1	799.5	637.2	495.6	385.5	309.8	259.6	236.0	218.3	211.4	209.5
20°	889.0	792.6	608.7	453.3	335.3	264.5	220.3	199.6	185.9	180.9	180.0
22.5°	895.8	787.7	582.2	411.0	289.1	228.1	190.8	174.1	164.2	159.3	159.3
25°	913.5	789.6	559.5	371.7	254.7	199.6	168.2	155.4	147.5	144.6	144.6
27.5°	934.2	797.5	541.8	338.3	225.2	178.0	152.4	141.6	137.7	133.7	134.7
30°	963.7	813.2	530.0	310.7	203.6	161.3	139.6	131.8	127.8	126.9	126.9
32.5°	1001.1	838.8	529.1	293.0	187.8	148.5	130.8	123.9	121.9	121.0	121.0
35°	1045.3	861.4	523.2	285.2	178.0	139.6	123.9	119.0	118.0	118.0	118.0
37.5°	1098.4	898.8	519.2	274.4	173.1	134.7	119.0	115.1	115.1	115.1	115.1
40°	1153.5	929.3	513.3	264.5	171.1	131.8	116.0	111.1	111.1	111.1	111.1
42.5°	1219.4	973.5	511.4	259.6	168.2	129.8	112.1	106.2	107.2	107.2	108.2
45°	1299.0	1023.7	510.4	254.7	167.2	127.8	108.2	101.3	102.3	101.3	101.3
47.5°	1379.7	1081.7	513.3	251.7	166.2	125.9	105.2	96.4	96.4	95.4	95.4
50°	1464.2	1134.8	515.3	248.8	164.2	121.9	100.3	92.4	90.5	88.5	89.5
52.5°	1543.9	1184.0	516.3	243.9	158.3	116.0	96.4	87.5	84.6	81.6	82.6
55°	1623.5	1231.2	518.2	238.0	150.5	110.1	91.5	82.6	78.7	74.7	74.7
57.5°	1695.3	1272.5	513.3	223.2	141.6	104.2	86.5	76.7	70.8	66.9	66.9
60°	1744.5	1302.0	498.6	201.6	129.8	97.4	81.6	70.8	63.9	61.0	61.0
62.5°	1768.1	1306.9	472.0	166.2	115.1	90.5	75.7	64.9	59.0	57.0	57.0
65°	1745.5	1285.3	430.7	124.9	99.3	82.6	69.8	60.0	54.1	49.2	49.2
67.5°	1666.8	1224.3	373.7	94.4	84.6	74.7	63.9	55.1	48.2	44.3	44.3
70°	1508.5	1097.4	289.1	75.7	71.8	64.9	58.0	49.2	43.3	38.4	38.4
72.5°	1301.0	930.3	203.6	61.0	61.0	55.1	49.2	43.3	37.4	33.4	33.4
75°	998.1	688.4	136.7	49.2	50.2	46.2	40.3	35.4	31.5	28.5	28.5
77.5°	544.8	340.2	83.6	36.4	37.4	35.4	31.5	28.5	26.6	23.6	23.6
80°	264.5	149.5	48.2	25.6	26.6	25.6	23.6	20.7	20.7	18.7	18.7
82.5°	111.1	56.1	25.6	17.7	17.7	15.7	14.8	14.8	14.8	13.8	13.8
85°	27.5	10.8	10.8	9.8	9.8	9.8	8.9	8.9	8.9	6.9	7.9
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.0	1.0	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)