

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: P799750

Luminaire Tested: **ARCH2-50-727-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799750
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: ARCH2-50-727-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 410mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

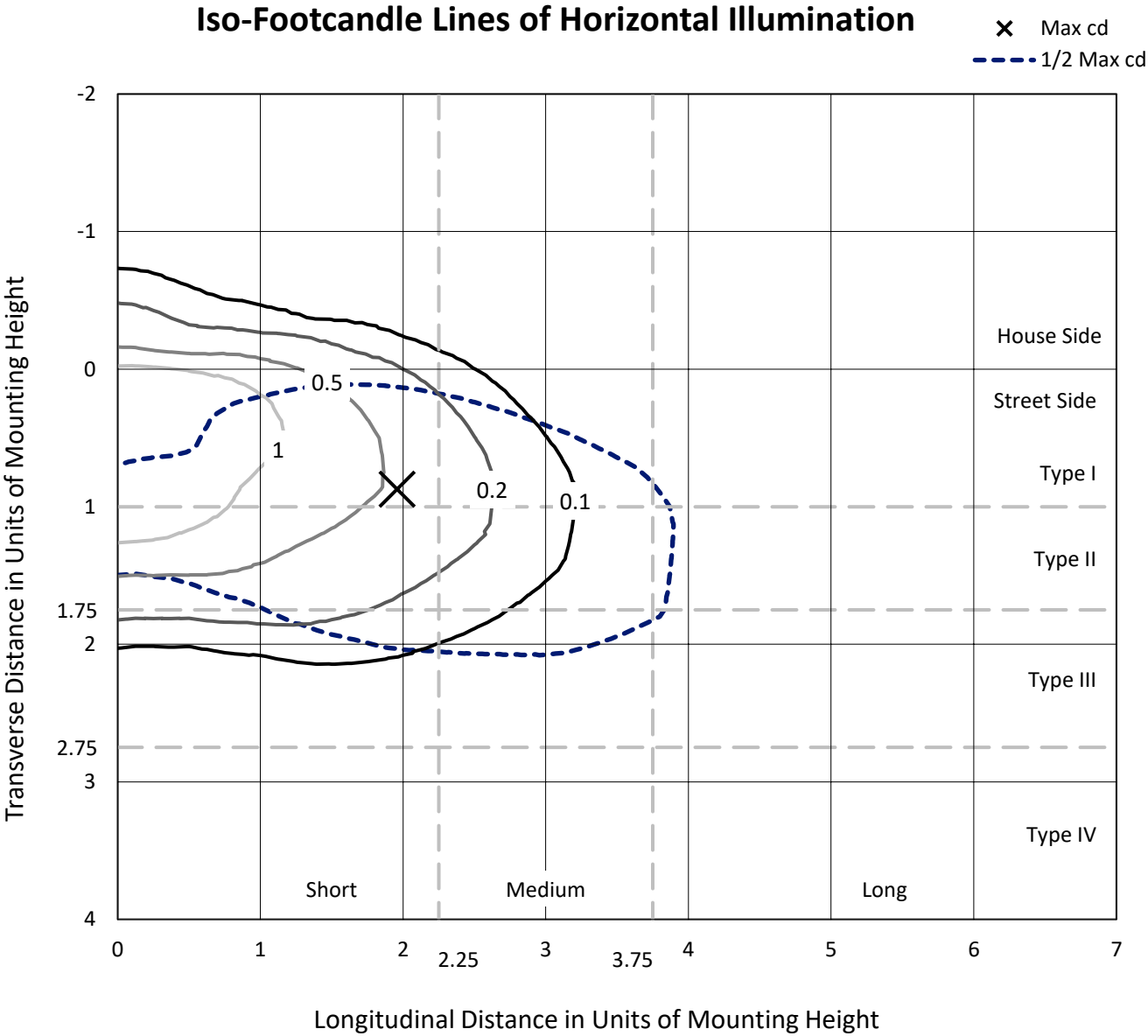
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5172 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - 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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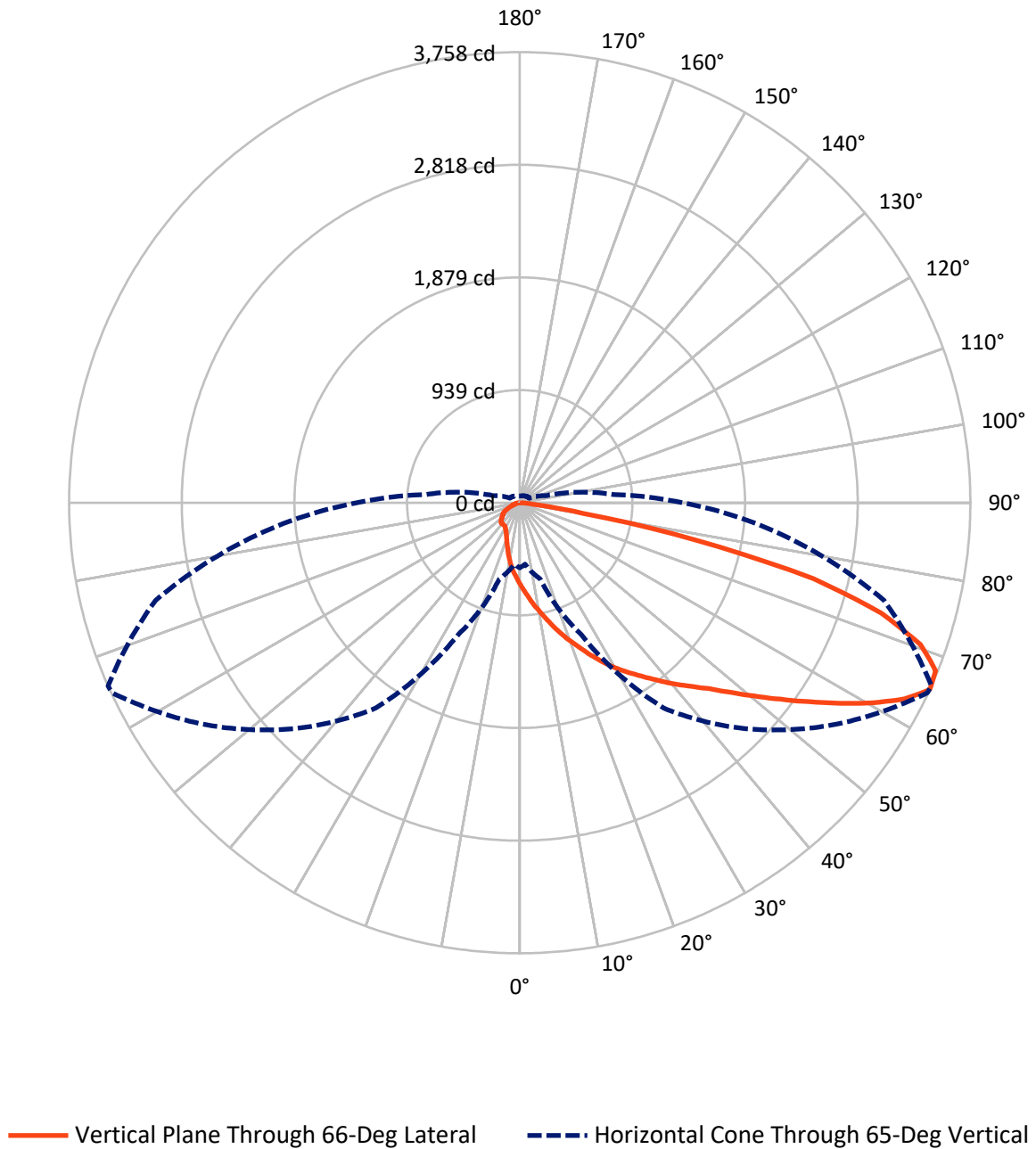


Based on 25 foot mounting height. Maximum calculated value = 2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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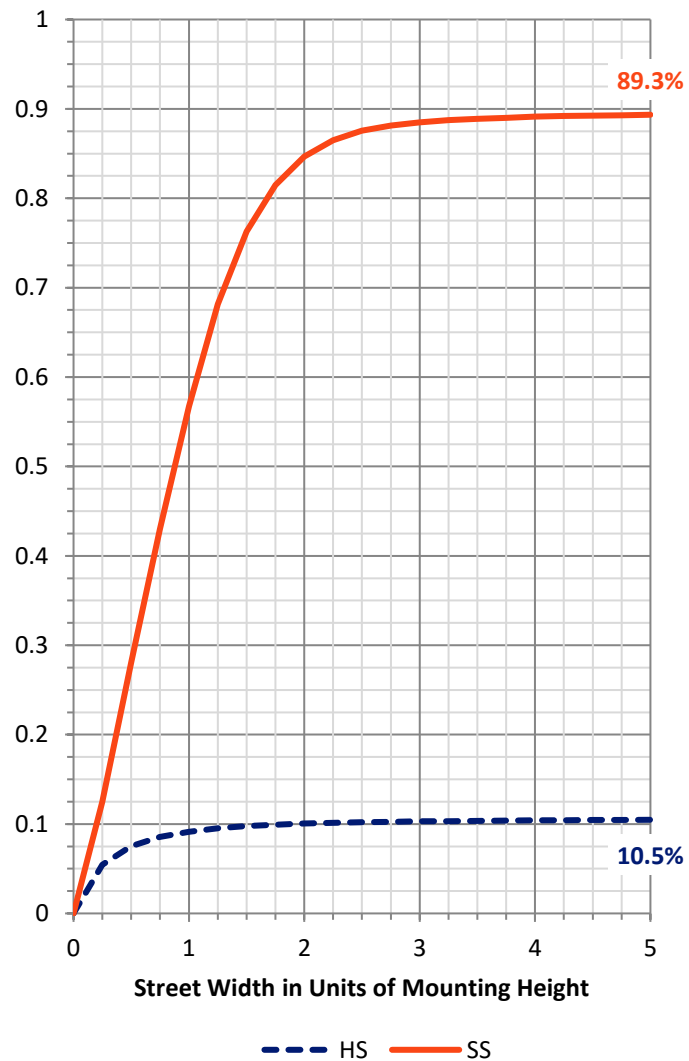
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	547.0	0.0	547.0
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	4624.9	0.0	4624.9
	% Fixture	89.4	0.0	89.4
Total	Lumens	5172.0	0.0	5172.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.6	1.3
10°-20°	220.2	4.3
20°-30°	398.4	7.7
30°-40°	623.0	12.0
40°-50°	945.1	18.3
50°-60°	1200.7	23.2
60°-70°	1122.0	21.7
70°-80°	557.6	10.8
80°-90°	37.5	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°	5172.0	100.0
0°-180°	5172.0	100.0

Coefficient of Utilization



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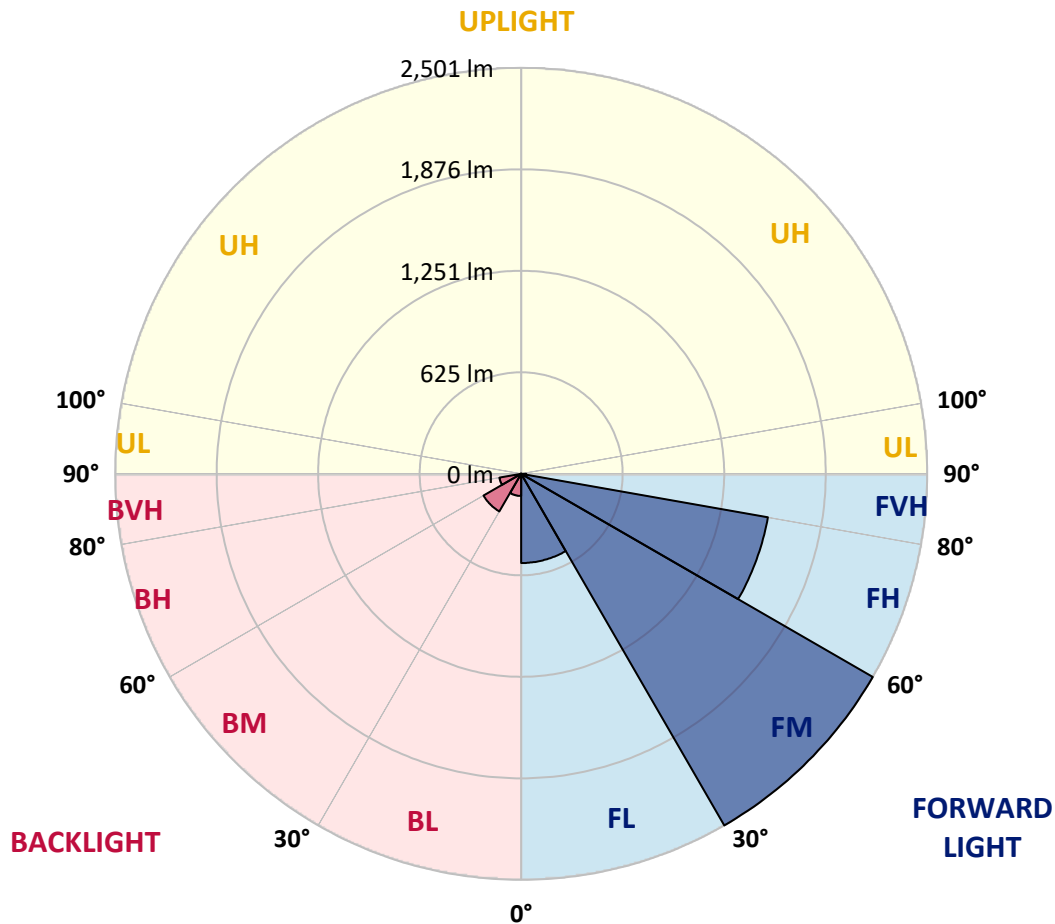
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	549.5	10.6			
FM	(30°-60°)	2501.2	48.4			
FH	(60°-80°)	1543.3	29.8			G1/1800
FVH	(80°-90°)	30.8	0.6			G1/100
BL	(0°-30°)	136.6	2.6	B1/500		
BM	(30°-60°)	267.6	5.2	B1/1000		
BH	(60°-80°)	136.2	2.6	B1/500		G1/500
BVH	(80°-90°)	6.6	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5
2.5°	799.5	806.0	809.2	810.3	785.4	774.5	763.7	738.7	733.3	719.2	700.8
5°	940.5	949.2	947.0	942.7	912.3	877.6	849.4	802.7	795.1	761.5	720.3
7.5°	1079.3	1086.9	1084.8	1068.5	1034.9	986.1	939.4	871.1	860.2	806.0	739.8
10°	1195.4	1201.9	1200.8	1184.6	1144.4	1084.8	1028.4	937.2	924.2	847.2	756.1
12.5°	1290.9	1299.5	1298.5	1287.6	1251.8	1186.7	1122.7	1013.2	996.9	897.1	778.9
15°	1365.7	1376.6	1376.6	1372.2	1347.3	1293.0	1220.4	1096.7	1077.2	954.6	807.1
17.5°	1411.3	1420.0	1427.5	1435.1	1417.8	1376.6	1310.4	1180.2	1159.6	1011.0	836.4
20°	1435.1	1443.8	1449.2	1465.5	1468.8	1448.2	1396.1	1262.7	1241.0	1075.0	870.0
22.5°	1474.2	1481.8	1482.9	1497.0	1503.5	1508.9	1476.4	1344.0	1326.7	1145.5	907.9
25°	1539.3	1548.0	1544.7	1551.2	1552.3	1558.8	1555.6	1437.3	1420.0	1225.8	953.5
27.5°	1622.8	1633.7	1631.5	1625.0	1615.2	1609.8	1623.9	1531.7	1515.4	1306.1	1000.2
30°	1712.8	1725.9	1722.6	1709.6	1683.6	1660.8	1680.3	1620.6	1605.5	1388.5	1052.2
32.5°	1804.0	1819.1	1818.1	1796.4	1751.9	1712.8	1742.1	1704.2	1693.3	1477.4	1108.6
35°	1863.6	1883.1	1881.0	1868.0	1810.5	1776.8	1812.6	1789.9	1782.3	1585.9	1190.0
37.5°	1960.2	1980.8	1962.3	1929.8	1863.6	1846.3	1889.7	1886.4	1881.0	1700.9	1275.7
40°	2194.5	2224.9	2176.0	2042.6	1934.1	1918.9	1980.8	1993.8	1988.4	1814.8	1352.7
42.5°	2439.6	2485.2	2409.3	2224.9	2062.1	2006.8	2080.6	2099.0	2092.5	1912.4	1422.1
45°	2588.2	2607.8	2531.8	2388.6	2288.9	2113.1	2186.9	2217.3	2211.8	2029.6	1511.1
47.5°	2709.7	2702.1	2615.4	2518.8	2537.3	2262.8	2307.3	2367.0	2362.6	2158.7	1608.7
50°	2735.8	2718.4	2683.7	2623.0	2671.8	2414.7	2434.2	2537.3	2532.9	2301.9	1707.4
52.5°	2552.4	2529.7	2624.0	2675.0	2658.8	2525.3	2574.1	2723.8	2721.7	2457.0	1801.8
55°	2094.7	2076.2	2330.1	2593.7	2644.7	2603.4	2729.3	2918.0	2929.9	2621.9	1887.5
57.5°	1647.8	1628.2	1877.7	2389.7	2592.6	2675.0	2910.4	3140.4	3155.6	2800.9	1968.8
60°	1313.6	1284.4	1475.3	2068.6	2495.0	2730.3	3085.1	3384.5	3386.6	2964.7	2018.7
62.5°	892.8	860.2	1071.7	1661.9	2331.2	2739.0	3219.6	3594.9	3603.6	3087.2	2027.4
65°	542.4	515.3	658.5	1213.9	2089.3	2665.3	3221.7	3750.0	3757.6	3143.6	1975.4
67.5°	314.6	303.7	376.4	756.1	1687.9	2466.8	3086.2	3726.2	3740.3	3119.8	1857.1
70°	183.3	182.2	209.4	374.2	1191.1	2073.0	2783.5	3525.5	3546.1	2995.0	1676.0
72.5°	134.5	136.7	147.5	200.7	689.9	1492.6	2357.2	3121.9	3153.4	2751.0	1417.8
75°	106.3	107.4	117.2	136.7	362.3	843.9	1766.0	2505.8	2530.8	2316.0	1107.5
77.5°	79.2	81.4	89.0	96.5	168.1	387.3	993.6	1543.6	1502.4	1271.3	534.8
80°	57.5	62.9	66.2	69.4	89.0	149.7	298.3	538.0	533.7	555.4	252.7
82.5°	36.9	41.2	44.5	46.6	53.2	71.6	89.0	120.4	130.2	215.9	100.9
85°	16.3	18.4	20.6	24.9	22.8	24.9	36.9	23.9	20.6	32.5	18.4
87.5°	0.0	0.0	3.3	5.4	4.3	2.2	6.5	4.3	3.3	3.3	3.3
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°	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5	684.5
2.5°	691.0	679.1	654.1	630.2	616.1	597.7	581.4	566.2	565.2	560.8	553.2
5°	699.7	676.9	630.2	585.8	552.1	516.3	486.0	462.1	453.4	446.9	438.2
7.5°	708.4	672.6	603.1	538.0	484.9	435.0	399.2	366.7	356.9	348.2	342.8
10°	711.6	665.0	571.7	484.9	415.5	362.3	324.3	300.5	291.8	287.5	284.2
12.5°	721.4	660.6	542.4	435.0	354.7	305.9	278.8	264.7	261.4	258.2	254.9
15°	734.4	660.6	513.1	386.2	307.0	267.9	251.7	241.9	239.7	238.6	236.5
17.5°	748.5	660.6	484.9	345.0	272.3	243.0	231.1	225.6	224.5	223.5	222.4
20°	768.0	661.7	454.5	309.2	247.3	224.5	214.8	208.3	207.2	206.1	206.1
22.5°	787.5	663.9	425.2	282.0	231.1	210.4	198.5	192.0	189.8	189.8	189.8
25°	812.5	670.4	398.1	259.3	217.0	197.4	182.2	176.8	175.7	175.7	174.6
27.5°	841.8	678.0	374.2	241.9	202.9	182.2	167.1	161.6	159.5	159.5	158.4
30°	873.2	685.6	354.7	228.9	188.7	167.1	153.0	146.4	144.3	145.4	144.3
32.5°	907.9	696.4	339.5	220.2	175.7	154.0	141.0	133.4	132.3	132.3	131.3
35°	966.5	726.8	337.4	215.9	164.9	144.3	131.3	123.7	122.6	122.6	121.5
37.5°	1029.4	761.5	347.1	213.7	156.2	135.6	123.7	116.1	115.0	115.0	115.0
40°	1082.6	787.5	358.0	213.7	150.8	128.0	117.2	110.6	110.6	110.6	110.6
42.5°	1118.4	789.7	355.8	213.7	146.4	122.6	112.8	106.3	106.3	107.4	106.3
45°	1171.5	800.6	347.1	210.4	143.2	118.2	108.5	103.1	102.0	103.1	103.1
47.5°	1234.5	820.1	338.4	197.4	142.1	113.9	105.2	98.7	97.6	98.7	97.6
50°	1294.1	837.4	334.1	180.1	139.9	109.6	100.9	94.4	93.3	94.4	93.3
52.5°	1344.0	845.0	326.5	168.1	134.5	105.2	96.5	90.0	87.9	89.0	89.0
55°	1384.2	842.9	315.7	158.4	124.7	100.9	91.1	85.7	82.4	82.4	81.4
57.5°	1421.0	843.9	305.9	148.6	113.9	94.4	86.8	80.3	75.9	74.8	73.8
60°	1435.1	838.5	288.5	135.6	103.1	89.0	81.4	73.8	69.4	68.3	67.3
62.5°	1415.6	819.0	265.8	112.8	93.3	82.4	75.9	68.3	64.0	62.9	61.8
65°	1360.3	782.1	231.1	89.0	84.6	74.8	69.4	64.0	58.6	56.4	55.3
67.5°	1265.9	729.0	187.7	71.6	74.8	68.3	65.1	58.6	52.1	49.9	48.8
70°	1131.4	658.5	141.0	60.7	66.2	60.7	58.6	52.1	46.6	44.5	43.4
72.5°	942.7	544.6	98.7	52.1	57.5	53.2	51.0	46.6	41.2	38.0	38.0
75°	712.7	390.5	65.1	44.5	47.7	45.6	42.3	39.1	35.8	33.6	32.5
77.5°	307.0	151.9	40.1	33.6	39.1	38.0	33.6	31.5	30.4	28.2	28.2
80°	132.3	61.8	24.9	24.9	28.2	27.1	26.0	23.9	23.9	22.8	21.7
82.5°	48.8	24.9	15.2	18.4	20.6	18.4	18.4	18.4	18.4	17.4	17.4
85°	11.9	7.6	7.6	10.8	11.9	10.8	11.9	10.8	10.8	10.8	9.8
87.5°	3.3	3.3	4.3	4.3	4.3	4.3	4.3	3.3	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)