

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: P799602

Luminaire Tested: **ARCH2-40-722-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799602
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-40-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4001 lumens
Efficiency: N/A
Efficacy: 90.7 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): 44.1
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

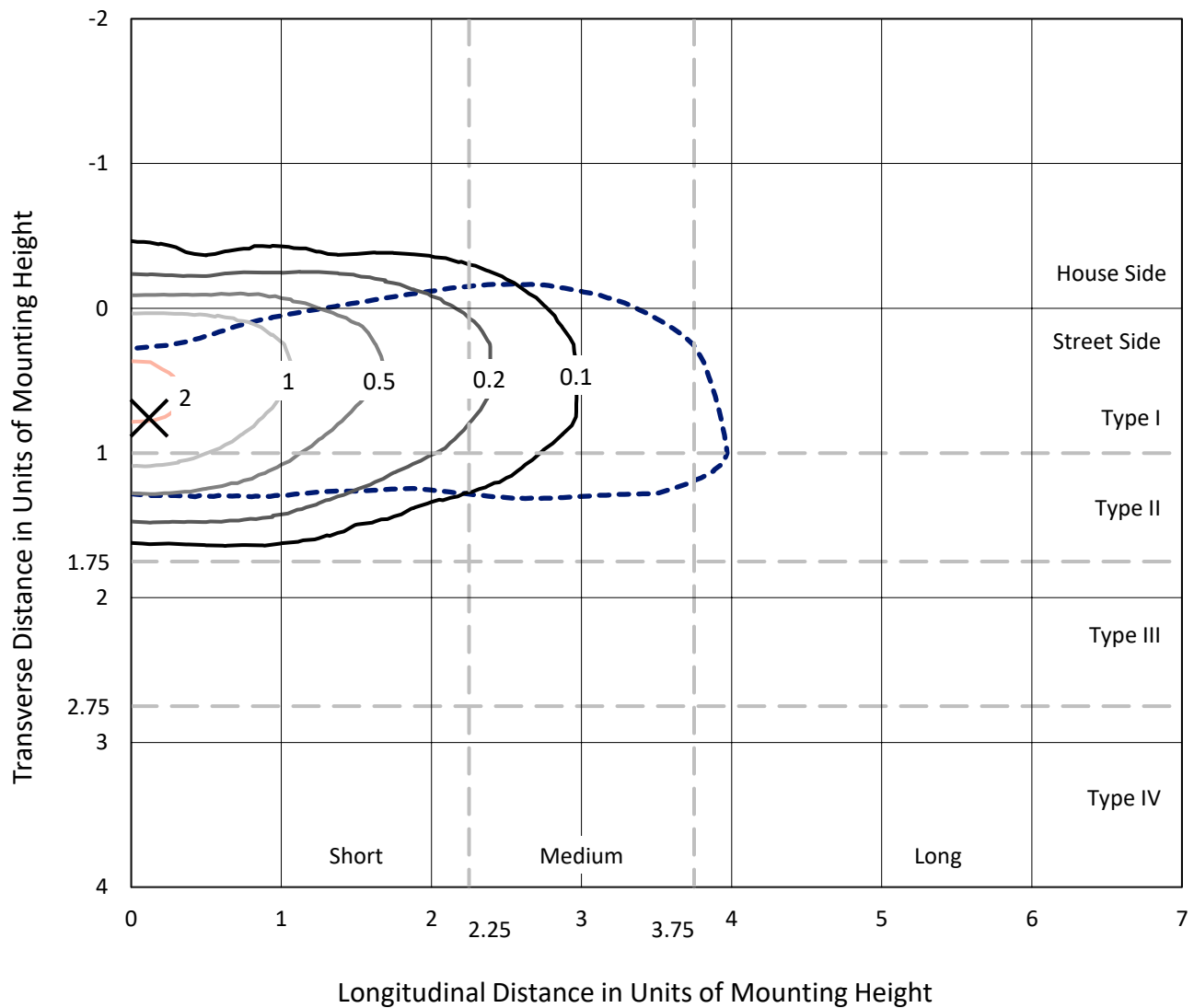


REPORT NUMBER: P799602

CATALOG NUMBER: ARCH2-40-722-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

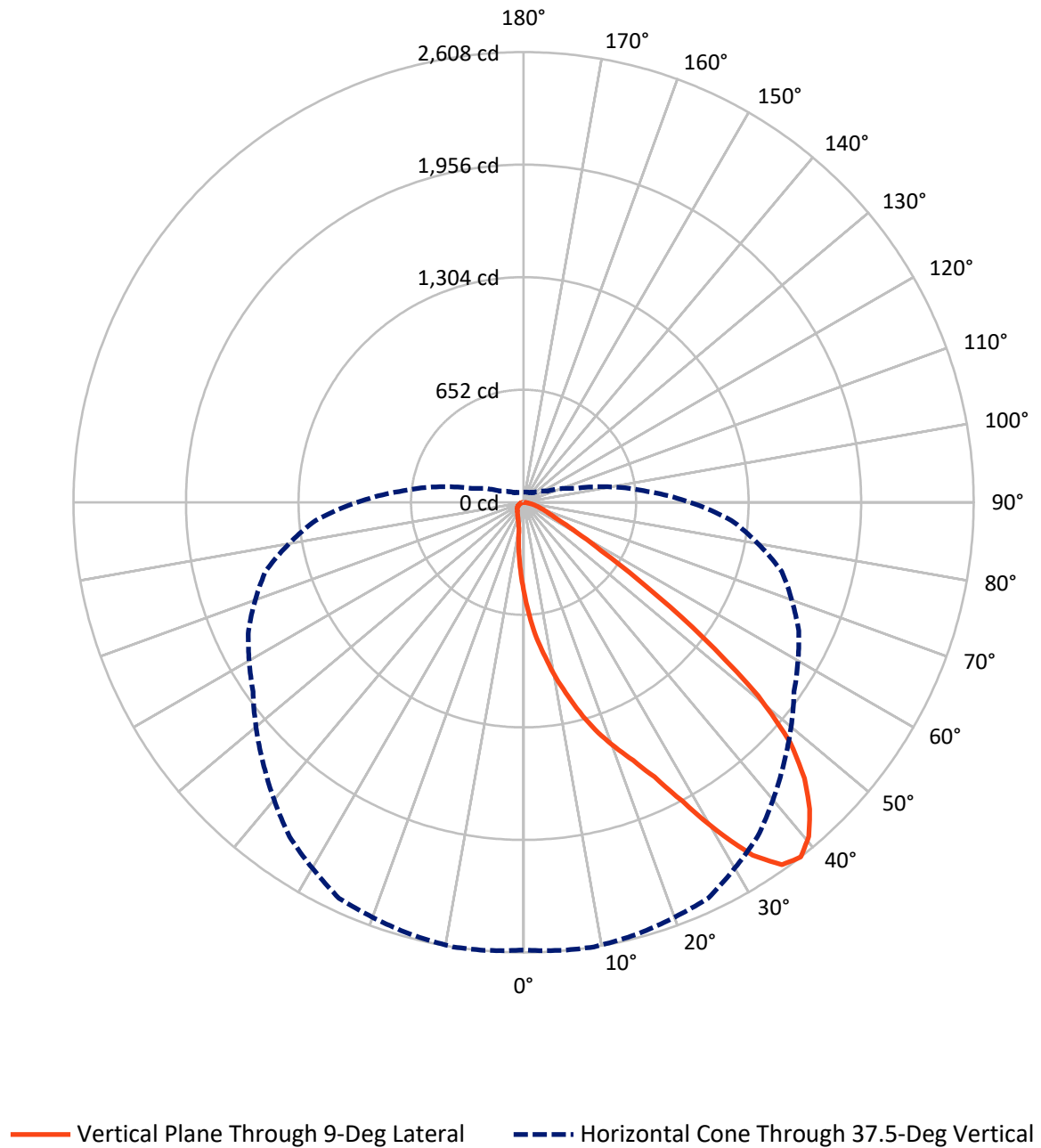


Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
Type II - Short - N/A

REPORT NUMBER: P799602

CATALOG NUMBER: ARCH2-40-722-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P799602

CATALOG NUMBER: ARCH2-40-722-U-T2R-HSS

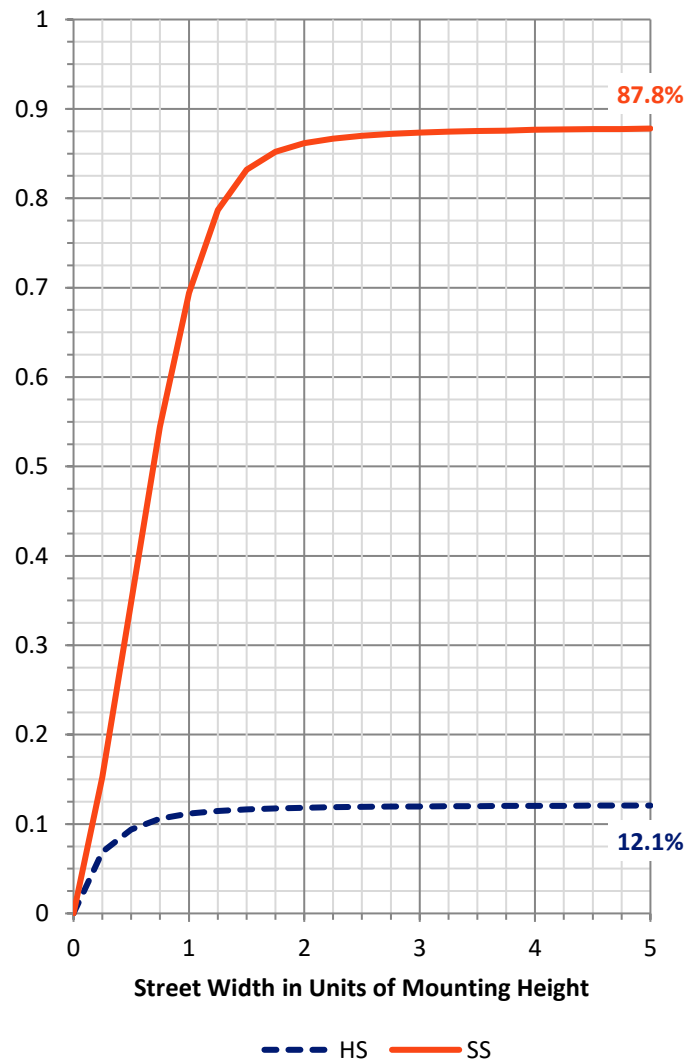
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	486.6	0.0	486.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	3514.4	0.0	3514.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	4001.0	0.0	4001.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	1.3
10°-20°	184.8	4.6
20°-30°	379.7	9.5
30°-40°	671.1	16.8
40°-50°	891.5	22.3
50°-60°	845.5	21.1
60°-70°	645.0	16.1
70°-80°	312.7	7.8
80°-90°	17.6	0.4
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°	4001.0	100.0
0°-180°	4001.0	100.0

Coefficient of Utilization



REPORT NUMBER: P799602

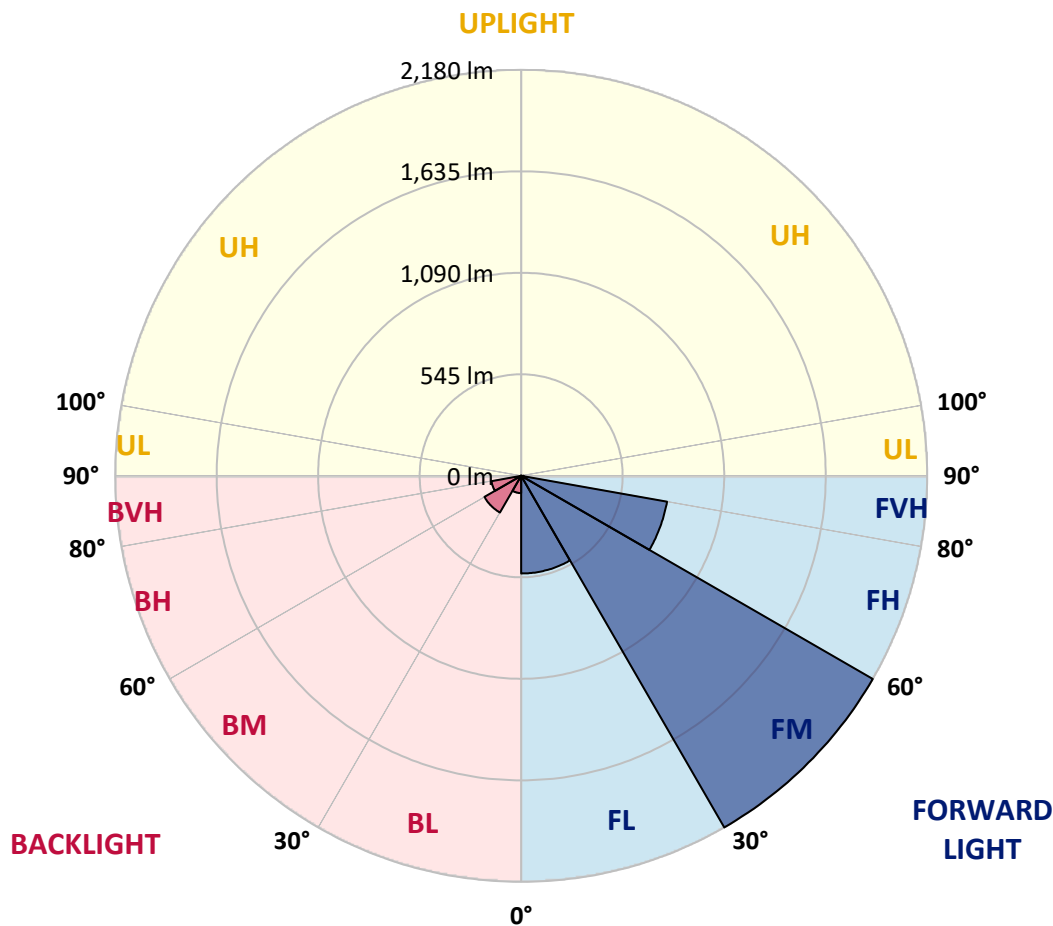
CATALOG NUMBER: ARCH2-40-722-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	524.7	13.1			
FM	(30°-60°)	2180.4	54.5			
FH	(60°-80°)	795.4	19.9			G1/1800
FVH	(80°-90°)	13.9	0.3			G1/100
BL	(0°-30°)	92.9	2.3	B0/110		
BM	(30°-60°)	227.7	5.7	B1/1000		
BH	(60°-80°)	162.4	4.1	B1/500		G1/500
BVH	(80°-90°)	3.7	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 II Short



REPORT NUMBER: P799602

CATALOG NUMBER: ARCH2-40-722-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	528.9	528.9	528.9	528.9	528.9	528.9	528.9	528.9	528.9	528.9	528.9
2.5°	655.4	643.9	657.0	655.4	643.9	636.5	613.5	606.1	579.0	559.3	542.0
5°	790.0	778.5	790.0	786.8	770.3	752.3	714.5	689.8	641.4	598.7	560.1
7.5°	901.7	901.7	906.7	907.5	887.8	859.8	813.0	776.1	707.9	642.2	580.6
10°	1022.5	1023.3	1034.0	1026.6	1000.3	962.5	903.4	856.6	774.4	688.2	600.3
12.5°	1151.4	1152.2	1155.5	1152.2	1121.0	1072.6	1001.1	939.5	845.1	740.8	627.4
15°	1280.3	1281.1	1285.3	1279.5	1245.0	1188.3	1107.0	1031.5	919.8	799.9	660.3
17.5°	1401.0	1402.7	1406.0	1398.6	1362.5	1295.1	1212.2	1121.0	999.5	863.1	697.2
20°	1509.5	1511.1	1513.6	1503.7	1467.6	1400.2	1310.7	1215.4	1080.8	928.0	737.5
22.5°	1618.7	1620.3	1624.4	1611.3	1571.0	1493.9	1406.0	1307.4	1167.0	999.5	784.3
25°	1758.3	1759.9	1763.2	1744.3	1689.3	1599.0	1506.2	1405.2	1260.6	1079.9	841.8
27.5°	1962.8	1961.1	1961.1	1926.6	1832.2	1714.8	1607.2	1504.5	1361.6	1166.2	905.0
30°	2215.7	2211.6	2209.2	2162.3	2027.7	1845.3	1710.7	1597.3	1458.5	1257.3	973.2
32.5°	2442.4	2442.4	2437.5	2388.2	2245.3	2021.1	1820.7	1687.7	1552.2	1349.3	1043.8
35°	2576.3	2582.0	2579.5	2542.6	2438.3	2210.0	1969.4	1796.1	1650.7	1445.4	1128.4
37.5°	2594.3	2605.8	2608.3	2586.1	2531.1	2364.4	2134.4	1913.5	1759.1	1548.9	1210.5
40°	2521.2	2545.9	2545.9	2542.6	2522.9	2437.5	2273.2	2049.8	1870.8	1656.5	1293.5
42.5°	2408.7	2434.2	2430.9	2443.2	2438.3	2420.2	2351.2	2177.1	1982.5	1767.3	1369.0
45°	2261.7	2288.0	2281.4	2303.6	2313.5	2333.2	2343.0	2265.8	2092.5	1888.0	1453.6
47.5°	2026.0	2070.4	2080.2	2119.6	2160.7	2222.3	2269.1	2297.9	2195.2	2017.8	1545.6
50°	1677.8	1740.2	1759.9	1842.9	1955.4	2082.7	2158.2	2258.4	2267.5	2150.8	1645.0
52.5°	1201.5	1273.8	1304.1	1440.5	1672.1	1893.8	2030.1	2171.4	2295.4	2278.1	1752.5
55°	776.9	838.5	868.1	996.2	1304.1	1652.4	1879.0	2058.9	2279.8	2394.8	1875.7
57.5°	478.8	514.1	533.8	643.9	927.2	1342.7	1681.1	1955.4	2232.2	2495.8	2003.8
60°	322.8	343.3	353.1	404.9	629.9	1003.6	1409.3	1847.0	2169.7	2563.9	2120.5
62.5°	214.3	220.9	230.8	262.8	415.6	704.6	1082.4	1653.2	2122.9	2568.0	2206.7
65°	165.9	169.2	173.3	187.2	256.2	492.7	761.3	1339.5	2053.1	2481.0	2233.8
67.5°	130.6	133.9	138.8	146.2	185.6	334.2	518.2	981.4	1910.2	2344.7	2189.4
70°	102.7	105.1	108.4	115.0	144.5	242.3	342.5	652.1	1622.0	2214.9	2049.8
72.5°	81.3	83.8	87.1	93.6	117.4	177.4	234.9	406.5	1250.8	2056.4	1781.3
75°	64.1	65.7	68.2	74.7	94.4	138.0	159.3	243.1	850.0	1766.5	1387.9
77.5°	32.0	39.4	45.2	51.7	69.0	95.3	105.9	134.7	358.9	906.7	661.9
80°	18.9	23.0	24.6	28.7	45.2	57.5	57.5	54.2	113.3	348.2	270.2
82.5°	10.7	14.8	15.6	16.4	27.1	32.8	26.3	19.7	23.0	116.6	78.8
85°	3.3	4.9	5.7	6.6	9.0	9.9	9.0	8.2	6.6	11.5	7.4
87.5°	0.0	0.0	0.0	0.0	0.8	1.6	1.6	1.6	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P799602

CATALOG NUMBER: ARCH2-40-722-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	528.9	528.9	528.9	528.9	528.9	528.9	528.9	528.9	528.9	528.9	528.9
2.5°	532.2	521.5	501.0	482.1	464.0	450.9	438.5	427.0	418.8	412.3	411.4
5°	539.6	518.2	478.8	441.8	408.2	380.2	356.4	337.5	323.6	313.7	312.9
7.5°	549.4	516.6	456.6	401.6	351.5	311.3	276.8	251.3	233.2	225.8	220.1
10°	557.6	514.9	434.4	361.3	295.6	244.7	203.7	178.2	165.1	160.1	157.7
12.5°	571.6	516.6	415.6	324.4	247.2	187.2	156.0	142.1	136.3	132.2	131.4
15°	592.1	524.0	397.5	288.3	197.9	151.1	133.0	124.0	118.3	117.4	116.6
17.5°	612.7	530.5	381.1	251.3	164.2	131.4	119.1	111.7	107.6	106.8	106.8
20°	636.5	538.7	363.0	216.0	140.4	118.3	108.4	102.7	97.7	96.9	96.9
22.5°	664.4	550.2	345.7	184.8	124.8	108.4	100.2	93.6	89.5	88.7	88.7
25°	702.2	567.5	331.8	161.8	114.2	100.2	92.8	87.1	83.8	82.1	82.1
27.5°	744.1	591.3	321.9	147.8	106.8	93.6	86.2	81.3	78.0	76.4	76.4
30°	790.9	617.6	315.4	142.1	102.7	87.9	81.3	76.4	72.3	71.4	71.4
32.5°	842.6	648.0	311.3	142.9	101.8	83.8	76.4	71.4	68.2	66.5	66.5
35°	900.1	681.6	308.8	147.8	103.5	80.5	72.3	67.3	64.1	62.4	62.4
37.5°	964.1	721.1	308.8	152.8	107.6	79.7	68.2	63.2	60.8	59.1	59.1
40°	1024.1	762.9	312.1	158.5	111.7	79.7	64.9	60.8	57.5	55.8	55.8
42.5°	1070.9	786.8	314.5	164.2	114.2	78.8	61.6	57.5	55.0	53.4	53.4
45°	1124.3	812.2	309.6	166.7	114.2	77.2	59.1	55.0	52.6	50.9	50.9
47.5°	1183.4	843.4	308.8	168.4	111.7	73.9	56.7	52.6	50.9	49.3	49.3
50°	1243.4	877.9	310.4	167.5	108.4	69.0	53.4	50.9	48.5	46.8	46.8
52.5°	1311.5	914.0	313.7	165.9	101.0	63.2	50.9	48.5	46.0	44.3	43.5
55°	1387.1	953.5	320.3	162.6	91.2	57.5	48.5	46.0	42.7	41.1	40.2
57.5°	1474.1	1001.9	327.7	156.0	80.5	52.6	46.0	42.7	37.8	35.3	34.5
60°	1557.1	1056.9	335.9	140.4	69.8	47.6	43.5	38.6	33.7	32.0	31.2
62.5°	1635.1	1111.1	340.0	112.5	59.1	43.5	41.1	35.3	30.4	28.7	27.9
65°	1685.2	1170.3	331.0	76.4	48.5	40.2	37.8	32.8	27.9	25.5	25.5
67.5°	1688.5	1198.2	299.8	50.1	39.4	36.1	34.5	29.6	24.6	23.0	22.2
70°	1605.5	1156.3	229.1	39.4	32.8	31.2	31.2	26.3	21.4	19.7	18.9
72.5°	1415.0	1024.1	146.2	32.0	27.9	26.3	26.3	22.2	18.9	16.4	15.6
75°	1116.9	790.0	78.0	26.3	23.0	22.2	20.5	18.1	15.6	14.0	13.1
77.5°	513.3	348.2	36.1	18.9	17.2	17.2	15.6	13.1	12.3	10.7	10.7
80°	202.8	118.3	18.1	12.3	11.5	11.5	11.5	9.0	9.0	7.4	6.6
82.5°	55.8	24.6	9.0	7.4	7.4	7.4	6.6	5.7	5.7	4.9	4.9
85°	5.7	4.1	4.1	4.1	4.1	3.3	3.3	2.5	1.6	1.6	1.6
87.5°	2.5	2.5	2.5	2.5	2.5	1.6	0.8	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)