

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: P798866

Luminaire Tested: **ARCH1-40-730-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798866
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: ARCH1-40-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1220mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3988 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - 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

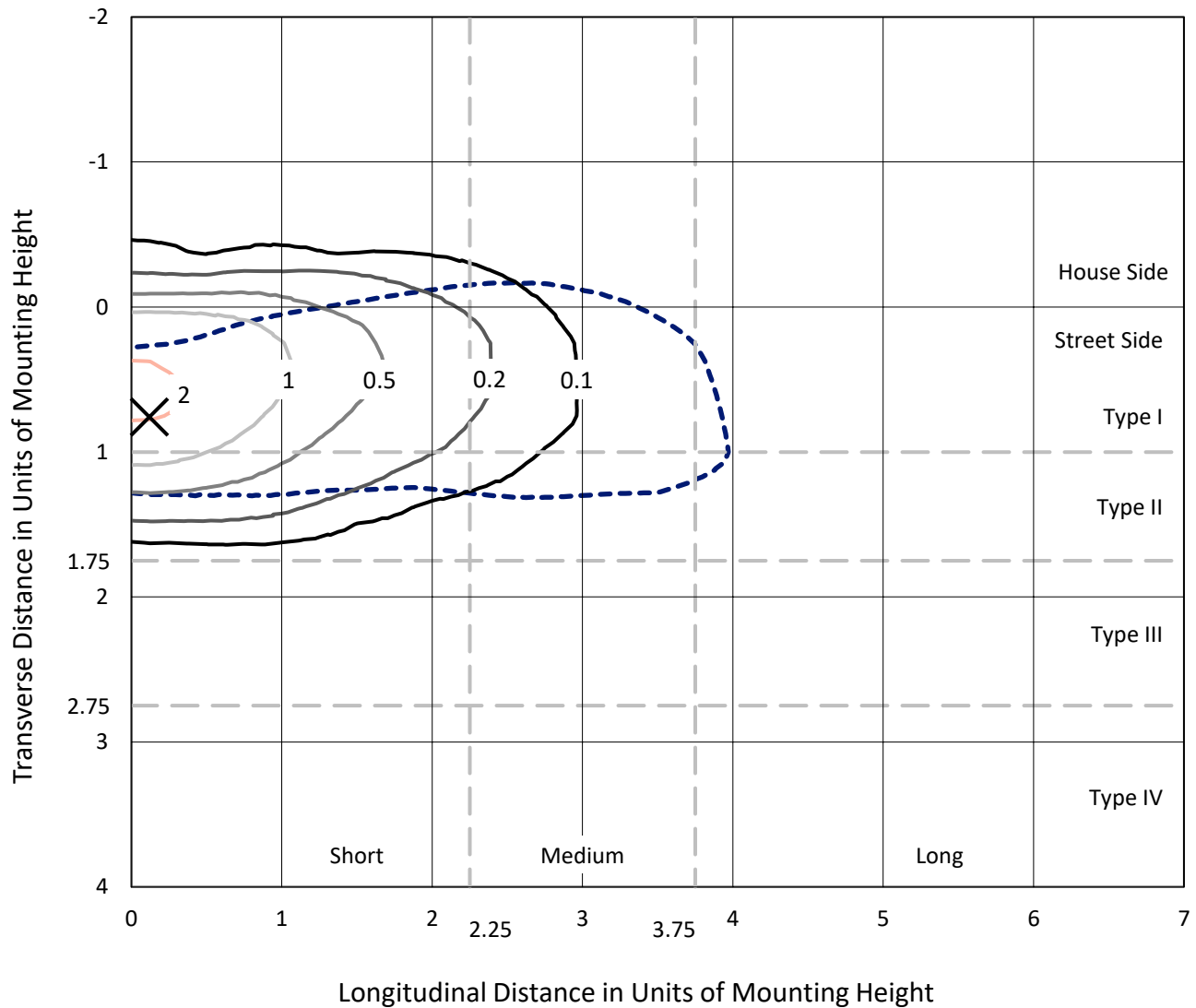


REPORT NUMBER: P798866

CATALOG NUMBER: ARCH1-40-730-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

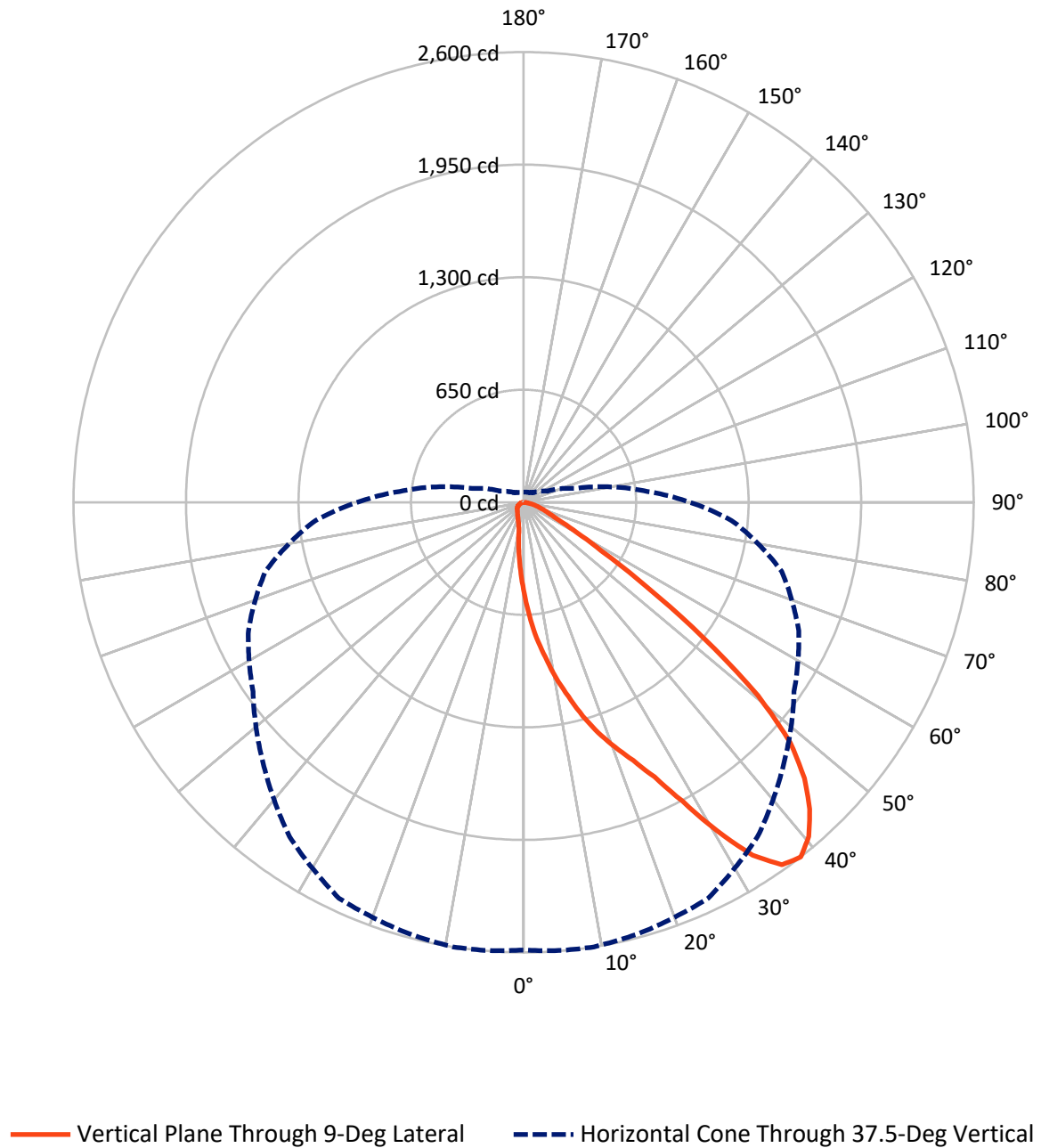


Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
Type II - Short - N/A

REPORT NUMBER: P798866

CATALOG NUMBER: ARCH1-40-730-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P798866

CATALOG NUMBER: ARCH1-40-730-U-T2R-HSS

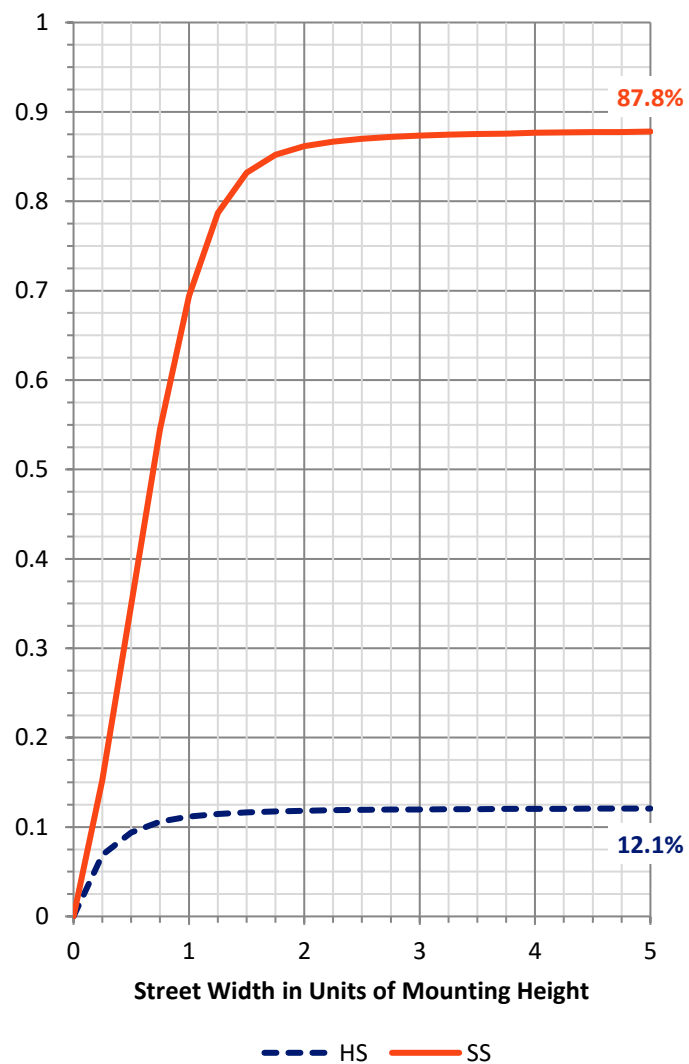
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	485.0	0.0	485.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	3503.0	0.0	3503.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	3988.0	0.0	3988.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.0	1.3
10°-20°	184.2	4.6
20°-30°	378.4	9.5
30°-40°	668.9	16.8
40°-50°	888.6	22.3
50°-60°	842.8	21.1
60°-70°	642.9	16.1
70°-80°	311.7	7.8
80°-90°	17.5	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°	3988.0	100.0
0°-180°	3988.0	100.0

Coefficient of Utilization



REPORT NUMBER: P798866

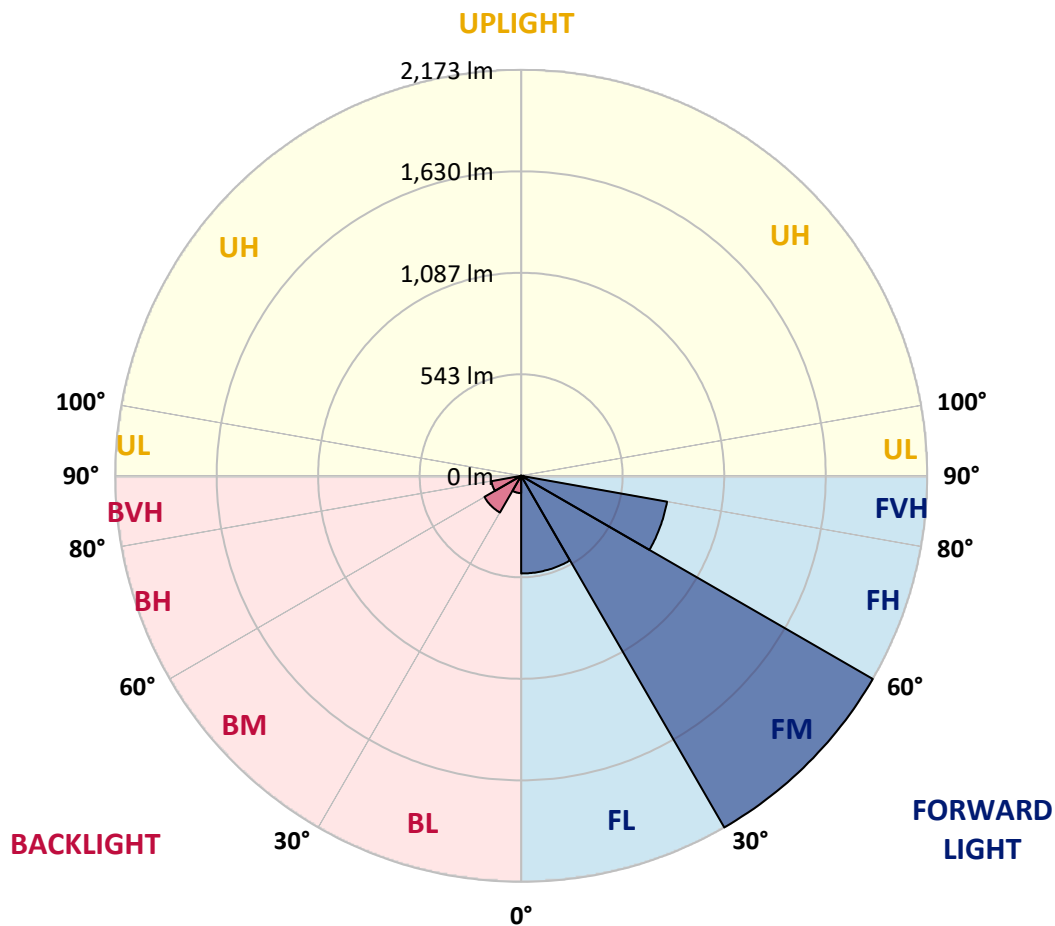
CATALOG NUMBER: ARCH1-40-730-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	523.0	13.1			
FM	(30°-60°)	2173.3	54.5			
FH	(60°-80°)	792.8	19.9			G1/1800
FVH	(80°-90°)	13.9	0.3			G1/100
BL	(0°-30°)	92.6	2.3	B0/110		
BM	(30°-60°)	227.0	5.7	B1/1000		
BH	(60°-80°)	161.8	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: P798866

CATALOG NUMBER: ARCH1-40-730-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	527.2	527.2	527.2	527.2	527.2	527.2	527.2	527.2	527.2	527.2	527.2
2.5°	653.2	641.8	654.9	653.2	641.8	634.4	611.5	604.1	577.1	557.5	540.3
5°	787.5	776.0	787.5	784.2	767.8	749.8	712.2	687.6	639.3	596.7	558.3
7.5°	898.8	898.8	903.7	904.5	884.9	857.1	810.4	773.6	705.6	640.1	578.7
10°	1019.1	1020.0	1030.6	1023.2	997.0	959.4	900.4	853.8	771.9	686.0	598.4
12.5°	1147.6	1148.5	1151.7	1148.5	1117.4	1069.1	997.8	936.5	842.3	738.4	625.4
15°	1276.2	1277.0	1281.1	1275.3	1241.0	1184.5	1103.4	1028.1	916.8	797.3	658.1
17.5°	1396.5	1398.1	1401.4	1394.0	1358.0	1290.9	1208.2	1117.4	996.2	860.3	695.0
20°	1504.5	1506.2	1508.6	1498.8	1462.8	1395.7	1306.5	1211.5	1077.3	925.0	735.1
22.5°	1613.4	1615.1	1619.2	1606.1	1565.9	1489.0	1401.4	1303.2	1163.2	996.2	781.7
25°	1752.6	1754.2	1757.5	1738.7	1683.8	1593.8	1501.3	1400.6	1256.5	1076.4	839.0
27.5°	1956.4	1954.8	1954.8	1920.4	1826.3	1709.2	1602.0	1499.6	1357.2	1162.4	902.1
30°	2208.5	2204.4	2202.0	2155.3	2021.1	1839.3	1705.1	1592.1	1453.8	1253.2	970.0
32.5°	2434.5	2434.5	2429.5	2380.4	2238.0	2014.5	1814.8	1682.2	1547.1	1344.9	1040.4
35°	2567.9	2573.6	2571.2	2534.3	2430.4	2202.8	1963.0	1790.2	1645.3	1440.7	1124.7
37.5°	2585.9	2597.4	2599.8	2577.7	2522.9	2356.7	2127.5	1907.3	1753.4	1543.8	1206.6
40°	2513.0	2537.6	2537.6	2534.3	2514.7	2429.5	2265.8	2043.2	1864.7	1651.1	1289.3
42.5°	2400.9	2426.3	2423.0	2435.3	2430.4	2412.4	2343.6	2170.1	1976.1	1761.6	1364.6
45°	2254.4	2280.6	2274.0	2296.1	2305.9	2325.6	2335.4	2258.5	2085.7	1881.9	1448.9
47.5°	2019.4	2063.6	2073.5	2112.8	2153.7	2215.1	2261.7	2290.4	2188.1	2011.3	1540.6
50°	1672.4	1734.6	1754.2	1836.9	1949.0	2075.9	2151.2	2251.1	2260.1	2143.9	1639.6
52.5°	1197.6	1269.6	1299.9	1435.8	1666.6	1887.6	2023.5	2164.3	2287.9	2270.7	1746.8
55°	774.4	835.8	865.2	992.9	1299.9	1647.0	1872.9	2052.2	2272.4	2387.0	1869.6
57.5°	477.2	512.4	532.1	641.8	924.2	1338.4	1675.6	1949.0	2224.9	2487.7	1997.3
60°	321.7	342.2	352.0	403.6	627.9	1000.3	1404.7	1841.0	2162.7	2555.6	2113.6
62.5°	213.6	220.2	230.0	261.9	414.2	702.3	1078.9	1647.8	2116.0	2559.7	2199.5
65°	165.4	168.6	172.7	186.6	255.4	491.1	758.8	1335.1	2046.4	2472.9	2226.5
67.5°	130.2	133.4	138.3	145.7	185.0	333.2	516.5	978.2	1904.0	2337.0	2182.3
70°	102.3	104.8	108.1	114.6	144.1	241.5	341.3	650.0	1616.7	2207.7	2043.2
72.5°	81.0	83.5	86.8	93.3	117.1	176.8	234.1	405.2	1246.7	2049.7	1775.5
75°	63.8	65.5	67.9	74.5	94.1	137.5	158.8	242.3	847.2	1760.8	1383.4
77.5°	31.9	39.3	45.0	51.6	68.8	95.0	105.6	134.2	357.7	903.7	659.8
80°	18.8	22.9	24.6	28.7	45.0	57.3	57.3	54.0	113.0	347.1	269.3
82.5°	10.6	14.7	15.6	16.4	27.0	32.7	26.2	19.6	22.9	116.2	78.6
85°	3.3	4.9	5.7	6.5	9.0	9.8	9.0	8.2	6.5	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: P798866

CATALOG NUMBER: ARCH1-40-730-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	527.2	527.2	527.2	527.2	527.2	527.2	527.2	527.2	527.2	527.2	527.2
2.5°	530.4	519.8	499.3	480.5	462.5	449.4	437.1	425.7	417.5	410.9	410.1
5°	537.8	516.5	477.2	440.4	406.8	379.0	355.3	336.4	322.5	312.7	311.9
7.5°	547.6	514.9	455.1	400.3	350.4	310.2	275.9	250.5	232.5	225.1	219.4
10°	555.8	513.2	433.0	360.2	294.7	243.9	203.0	177.6	164.5	159.6	157.2
12.5°	569.7	514.9	414.2	323.3	246.4	186.6	155.5	141.6	135.9	131.8	131.0
15°	590.2	522.3	396.2	287.3	197.3	150.6	132.6	123.6	117.9	117.1	116.2
17.5°	610.7	528.8	379.8	250.5	163.7	131.0	118.7	111.3	107.2	106.4	106.4
20°	634.4	537.0	361.8	215.3	140.0	117.9	108.1	102.3	97.4	96.6	96.6
22.5°	662.2	548.4	344.6	184.2	124.4	108.1	99.9	93.3	89.2	88.4	88.4
25°	699.9	565.6	330.7	161.3	113.8	99.9	92.5	86.8	83.5	81.9	81.9
27.5°	741.6	589.4	320.9	147.3	106.4	93.3	86.0	81.0	77.8	76.1	76.1
30°	788.3	615.6	314.3	141.6	102.3	87.6	81.0	76.1	72.0	71.2	71.2
32.5°	839.9	645.9	310.2	142.4	101.5	83.5	76.1	71.2	67.9	66.3	66.3
35°	897.2	679.4	307.8	147.3	103.1	80.2	72.0	67.1	63.8	62.2	62.2
37.5°	961.0	718.7	307.8	152.3	107.2	79.4	67.9	63.0	60.6	58.9	58.9
40°	1020.8	760.5	311.1	158.0	111.3	79.4	64.7	60.6	57.3	55.7	55.7
42.5°	1067.4	784.2	313.5	163.7	113.8	78.6	61.4	57.3	54.8	53.2	53.2
45°	1120.6	809.6	308.6	166.2	113.8	76.9	58.9	54.8	52.4	50.8	50.8
47.5°	1179.6	840.7	307.8	167.8	111.3	73.7	56.5	52.4	50.8	49.1	49.1
50°	1239.3	875.1	309.4	167.0	108.1	68.8	53.2	50.8	48.3	46.7	46.7
52.5°	1307.3	911.1	312.7	165.4	100.7	63.0	50.8	48.3	45.8	44.2	43.4
55°	1382.6	950.4	319.2	162.1	90.9	57.3	48.3	45.8	42.6	40.9	40.1
57.5°	1469.4	998.7	326.6	155.5	80.2	52.4	45.8	42.6	37.7	35.2	34.4
60°	1552.0	1053.5	334.8	140.0	69.6	47.5	43.4	38.5	33.6	31.9	31.1
62.5°	1629.8	1107.5	338.9	112.1	58.9	43.4	40.9	35.2	30.3	28.7	27.8
65°	1679.7	1166.5	329.9	76.1	48.3	40.1	37.7	32.7	27.8	25.4	25.4
67.5°	1683.0	1194.3	298.8	49.9	39.3	36.0	34.4	29.5	24.6	22.9	22.1
70°	1600.3	1152.6	228.4	39.3	32.7	31.1	31.1	26.2	21.3	19.6	18.8
72.5°	1410.4	1020.8	145.7	31.9	27.8	26.2	26.2	22.1	18.8	16.4	15.6
75°	1113.3	787.5	77.8	26.2	22.9	22.1	20.5	18.0	15.6	13.9	13.1
77.5°	511.6	347.1	36.0	18.8	17.2	17.2	15.6	13.1	12.3	10.6	10.6
80°	202.2	117.9	18.0	12.3	11.5	11.5	11.5	9.0	9.0	7.4	6.5
82.5°	55.7	24.6	9.0	7.4	7.4	7.4	6.5	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)