

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: P799634

Luminaire Tested: **ARCH2-40-730-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799634
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: ARCH2-40-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 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: 4573 lumens
Efficiency: N/A
Efficacy: 103.7 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

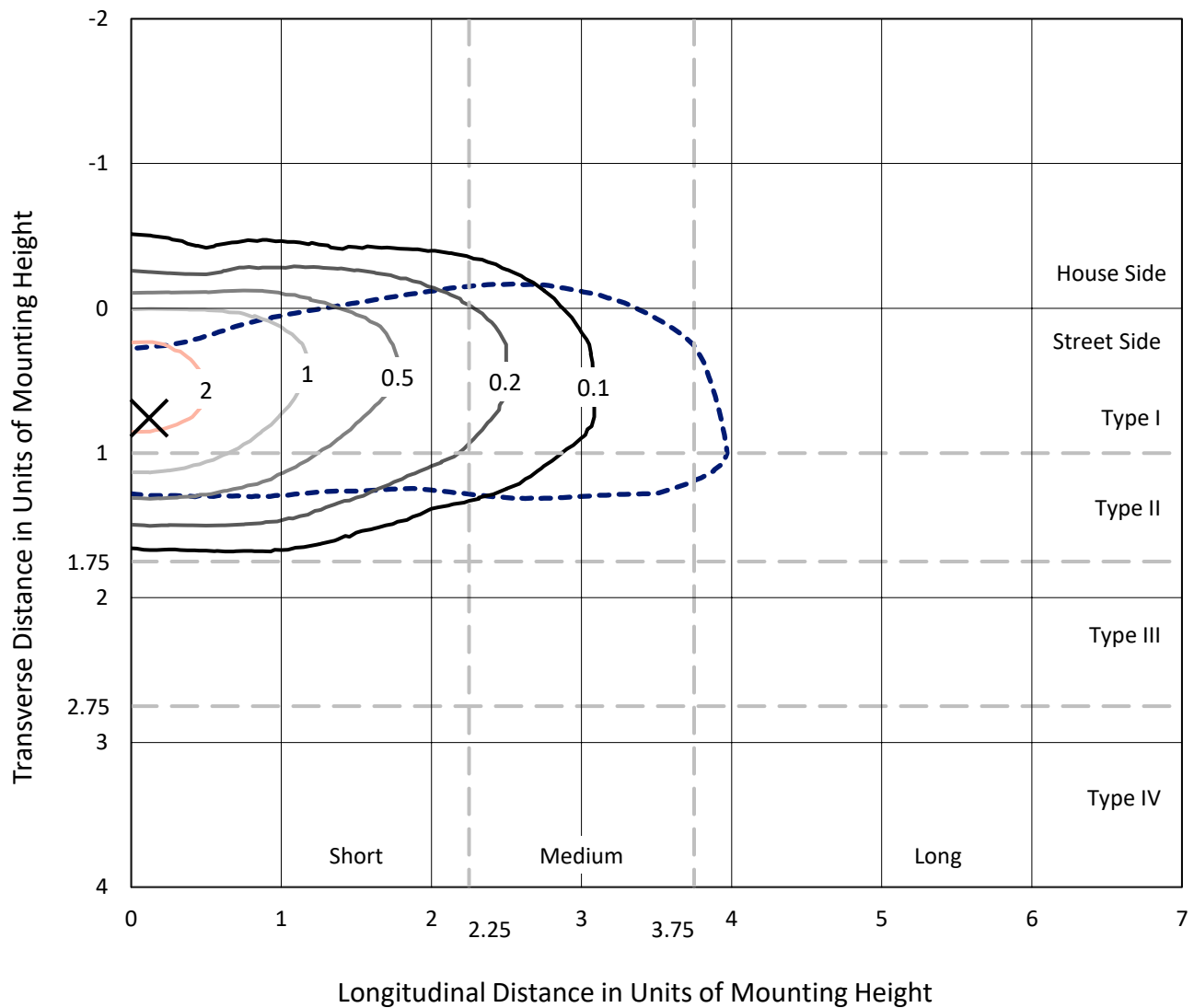


REPORT NUMBER: P799634

CATALOG NUMBER: ARCH2-40-730-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

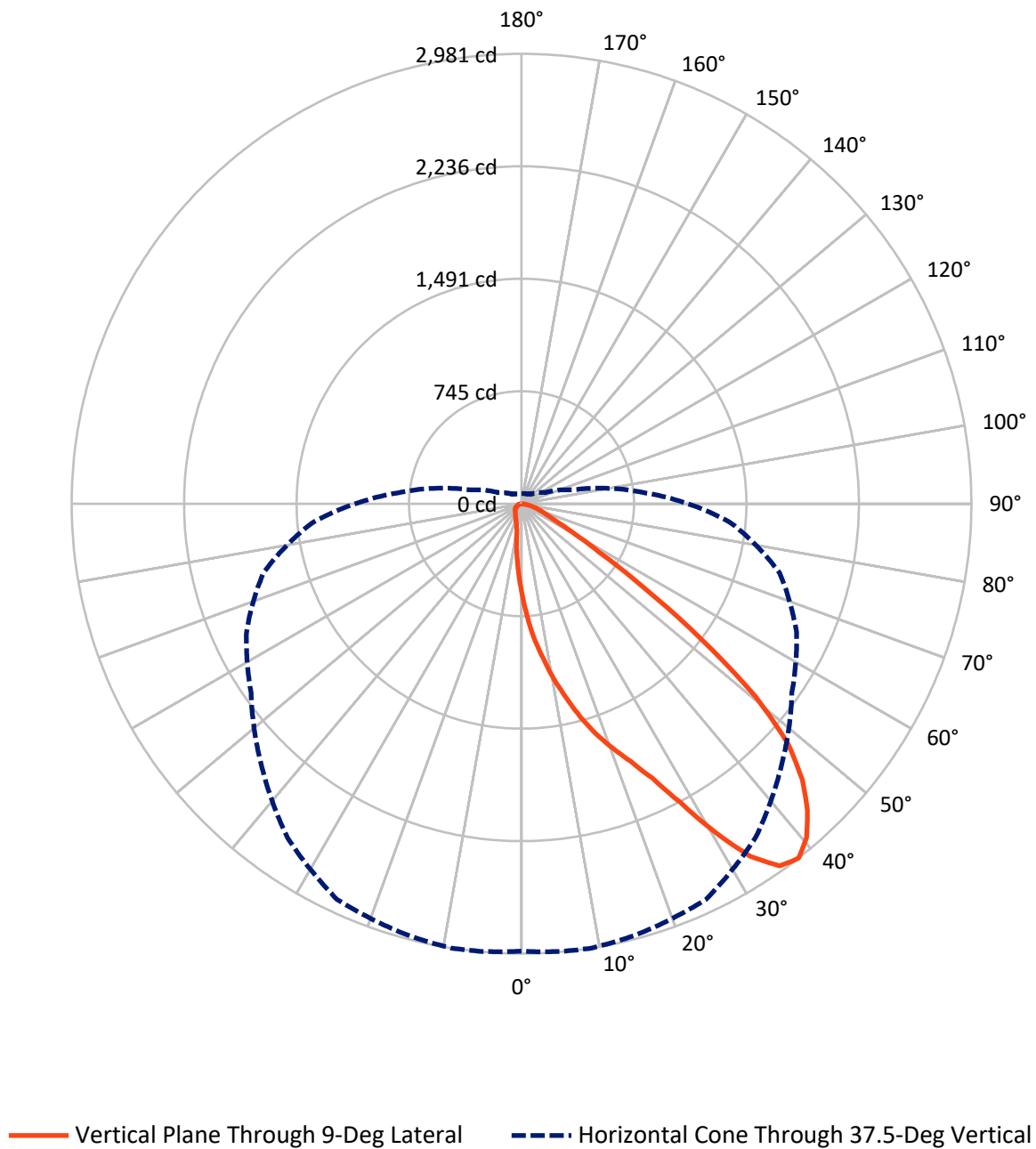


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
Type II - Short - N/A

REPORT NUMBER: P799634

CATALOG NUMBER: ARCH2-40-730-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P799634

CATALOG NUMBER: ARCH2-40-730-U-T2R-HSS

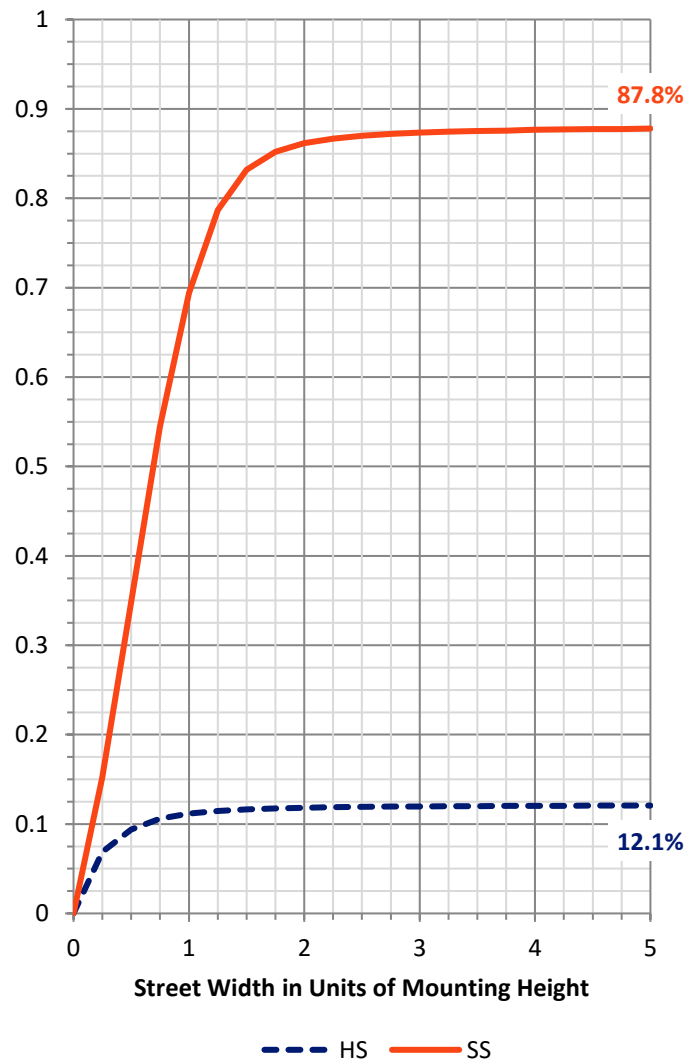
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	556.2	0.0	556.2
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	4016.8	0.0	4016.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	4573.0	0.0	4573.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.8	1.3
10°-20°	211.2	4.6
20°-30°	433.9	9.5
30°-40°	767.0	16.8
40°-50°	1018.9	22.3
50°-60°	966.4	21.1
60°-70°	737.3	16.1
70°-80°	357.4	7.8
80°-90°	20.1	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°	4573.0	100.0
0°-180°	4573.0	100.0

Coefficient of Utilization



REPORT NUMBER: P799634

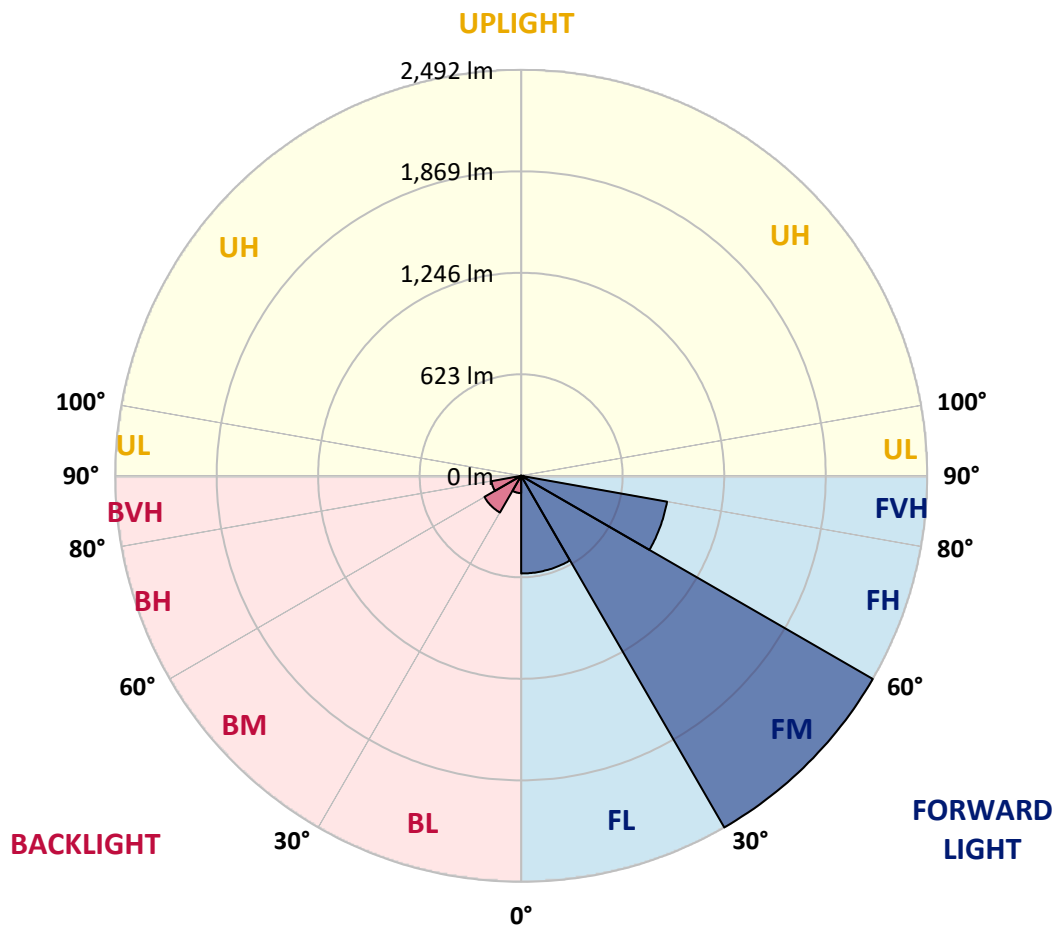
CATALOG NUMBER: ARCH2-40-730-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	599.7	13.1			
FM	(30°-60°)	2492.1	54.5			
FH	(60°-80°)	909.1	19.9			G1/1800
FVH	(80°-90°)	15.9	0.3			G1/100
BL	(0°-30°)	106.1	2.3	B0/110		
BM	(30°-60°)	260.3	5.7	B1/1000		
BH	(60°-80°)	185.6	4.1	B1/500		G1/500
BVH	(80°-90°)	4.2	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: P799634

CATALOG NUMBER: ARCH2-40-730-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	604.5	604.5	604.5	604.5	604.5	604.5	604.5	604.5	604.5	604.5	604.5
2.5°	749.0	735.9	750.9	749.0	735.9	727.5	701.2	692.7	661.8	639.2	619.5
5°	903.0	889.8	903.0	899.2	880.5	859.8	816.6	788.5	733.1	684.3	640.2
7.5°	1030.6	1030.6	1036.3	1037.2	1014.7	982.8	929.3	887.0	809.1	734.0	663.6
10°	1168.6	1169.6	1181.8	1173.3	1143.3	1100.1	1032.5	979.0	885.2	786.6	686.2
12.5°	1316.0	1316.9	1320.7	1316.9	1281.3	1225.9	1144.2	1073.8	965.9	846.7	717.1
15°	1463.4	1464.3	1469.0	1462.4	1423.0	1358.2	1265.3	1179.0	1051.3	914.3	754.7
17.5°	1601.3	1603.2	1607.0	1598.5	1557.2	1480.3	1385.5	1281.3	1142.3	986.5	796.9
20°	1725.3	1727.1	1729.9	1718.7	1677.4	1600.4	1498.1	1389.2	1235.3	1060.7	842.9
22.5°	1850.1	1852.0	1856.7	1841.6	1795.7	1707.4	1607.0	1494.3	1333.8	1142.3	896.4
25°	2009.7	2011.5	2015.3	1993.7	1930.8	1827.6	1721.5	1606.0	1440.8	1234.3	962.1
27.5°	2243.4	2241.5	2241.5	2202.1	2094.1	1959.9	1837.0	1719.6	1556.3	1332.9	1034.4
30°	2532.5	2527.8	2525.0	2471.5	2317.5	2109.2	1955.2	1825.7	1667.1	1437.1	1112.3
32.5°	2791.6	2791.6	2785.9	2729.6	2566.3	2310.0	2081.0	1928.9	1774.1	1542.2	1193.0
35°	2944.6	2951.1	2948.3	2906.1	2786.9	2525.9	2250.9	2052.8	1886.7	1652.0	1289.7
37.5°	2965.2	2978.4	2981.2	2955.8	2892.9	2702.4	2439.6	2187.1	2010.6	1770.3	1383.6
40°	2881.7	2909.8	2909.8	2906.1	2883.6	2785.9	2598.2	2342.9	2138.3	1893.3	1478.4
42.5°	2753.1	2782.2	2778.4	2792.5	2786.9	2766.2	2687.4	2488.4	2265.9	2020.0	1564.7
45°	2585.1	2615.1	2607.6	2632.9	2644.2	2666.7	2678.0	2589.8	2391.7	2158.0	1661.4
47.5°	2315.7	2366.4	2377.6	2422.7	2469.6	2540.0	2593.5	2626.4	2509.0	2306.3	1766.6
50°	1917.7	1989.0	2011.5	2106.3	2234.9	2380.4	2466.8	2581.3	2591.6	2458.3	1880.1
52.5°	1373.3	1455.9	1490.6	1646.4	1911.1	2164.5	2320.4	2481.8	2623.5	2603.8	2003.1
55°	888.0	958.4	992.2	1138.6	1490.6	1888.6	2147.6	2353.2	2605.7	2737.1	2143.9
57.5°	547.2	587.6	610.1	735.9	1059.7	1534.7	1921.4	2234.9	2551.3	2852.6	2290.3
60°	368.9	392.4	403.6	462.8	720.0	1147.0	1610.7	2111.0	2479.9	2930.5	2423.6
62.5°	245.0	252.5	263.8	300.4	475.0	805.4	1237.2	1889.5	2426.4	2935.2	2522.2
65°	189.6	193.4	198.1	214.0	292.9	563.2	870.1	1530.9	2346.6	2835.7	2553.1
67.5°	149.2	153.0	158.6	167.1	212.1	382.0	592.3	1121.7	2183.3	2679.9	2502.5
70°	117.3	120.1	123.9	131.4	165.2	276.9	391.4	745.3	1853.8	2531.6	2342.9
72.5°	92.9	95.7	99.5	107.0	134.2	202.7	268.5	464.6	1429.6	2350.4	2035.9
75°	73.2	75.1	77.9	85.4	107.9	157.7	182.1	277.8	971.5	2019.1	1586.3
77.5°	36.6	45.1	51.6	59.1	78.8	108.9	121.1	153.9	410.2	1036.3	756.6
80°	21.6	26.3	28.2	32.9	51.6	65.7	65.7	62.0	129.5	398.0	308.8
82.5°	12.2	16.9	17.8	18.8	31.0	37.5	30.0	22.5	26.3	133.3	90.1
85°	3.8	5.6	6.6	7.5	10.3	11.3	10.3	9.4	7.5	13.1	8.4
87.5°	0.0	0.0	0.0	0.0	0.9	1.9	1.9	1.9	2.8	2.8	2.8
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: P799634

CATALOG NUMBER: ARCH2-40-730-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	604.5	604.5	604.5	604.5	604.5	604.5	604.5	604.5	604.5	604.5	604.5
2.5°	608.2	596.0	572.6	551.0	530.3	515.3	501.2	488.1	478.7	471.2	470.3
5°	616.7	592.3	547.2	505.0	466.5	434.6	407.4	385.8	369.8	358.6	357.6
7.5°	628.0	590.4	521.9	459.0	401.7	355.8	316.3	287.2	266.6	258.1	251.6
10°	637.3	588.5	496.5	413.0	337.9	279.7	232.8	203.7	188.7	183.0	180.2
12.5°	653.3	590.4	475.0	370.8	282.5	214.0	178.3	162.4	155.8	151.1	150.2
15°	676.8	598.9	454.3	329.5	226.2	172.7	152.1	141.7	135.2	134.2	133.3
17.5°	700.2	606.4	435.5	287.2	187.7	150.2	136.1	127.7	123.0	122.0	122.0
20°	727.5	615.8	414.9	246.9	160.5	135.2	123.9	117.3	111.7	110.8	110.8
22.5°	759.4	628.9	395.2	211.2	142.7	123.9	114.5	107.0	102.3	101.4	101.4
25°	802.6	648.6	379.2	184.9	130.5	114.5	106.1	99.5	95.7	93.9	93.9
27.5°	850.4	675.8	368.0	169.0	122.0	107.0	98.6	92.9	89.2	87.3	87.3
30°	903.9	705.9	360.4	162.4	117.3	100.4	92.9	87.3	82.6	81.7	81.7
32.5°	963.1	740.6	355.8	163.3	116.4	95.7	87.3	81.7	77.9	76.0	76.0
35°	1028.8	779.1	352.9	169.0	118.3	92.0	82.6	77.0	73.2	71.3	71.3
37.5°	1102.0	824.1	352.9	174.6	123.0	91.0	77.9	72.3	69.5	67.6	67.6
40°	1170.5	872.0	356.7	181.2	127.7	91.0	74.2	69.5	65.7	63.8	63.8
42.5°	1224.0	899.2	359.5	187.7	130.5	90.1	70.4	65.7	62.9	61.0	61.0
45°	1285.0	928.3	353.9	190.5	130.5	88.2	67.6	62.9	60.1	58.2	58.2
47.5°	1352.6	964.0	352.9	192.4	127.7	84.5	64.8	60.1	58.2	56.3	56.3
50°	1421.1	1003.4	354.8	191.5	123.9	78.8	61.0	58.2	55.4	53.5	53.5
52.5°	1499.0	1044.7	358.6	189.6	115.5	72.3	58.2	55.4	52.6	50.7	49.7
55°	1585.4	1089.8	366.1	185.9	104.2	65.7	55.4	52.6	48.8	46.9	46.0
57.5°	1684.9	1145.2	374.5	178.3	92.0	60.1	52.6	48.8	43.2	40.4	39.4
60°	1779.7	1208.1	383.9	160.5	79.8	54.4	49.7	44.1	38.5	36.6	35.7
62.5°	1868.9	1270.0	388.6	128.6	67.6	49.7	46.9	40.4	34.7	32.9	31.9
65°	1926.1	1337.6	378.3	87.3	55.4	46.0	43.2	37.5	31.9	29.1	29.1
67.5°	1929.9	1369.5	342.6	57.3	45.1	41.3	39.4	33.8	28.2	26.3	25.3
70°	1835.1	1321.6	261.9	45.1	37.5	35.7	35.7	30.0	24.4	22.5	21.6
72.5°	1617.3	1170.5	167.1	36.6	31.9	30.0	30.0	25.3	21.6	18.8	17.8
75°	1276.6	903.0	89.2	30.0	26.3	25.3	23.5	20.7	17.8	16.0	15.0
77.5°	586.7	398.0	41.3	21.6	19.7	19.7	17.8	15.0	14.1	12.2	12.2
80°	231.8	135.2	20.7	14.1	13.1	13.1	13.1	10.3	10.3	8.4	7.5
82.5°	63.8	28.2	10.3	8.4	8.4	8.4	7.5	6.6	6.6	5.6	5.6
85°	6.6	4.7	4.7	4.7	4.7	3.8	3.8	2.8	1.9	1.9	1.9
87.5°	2.8	2.8	2.8	2.8	2.8	1.9	0.9	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)