

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: P1209917

Luminaire Tested: **ARCH1-20-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1209917
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-20-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

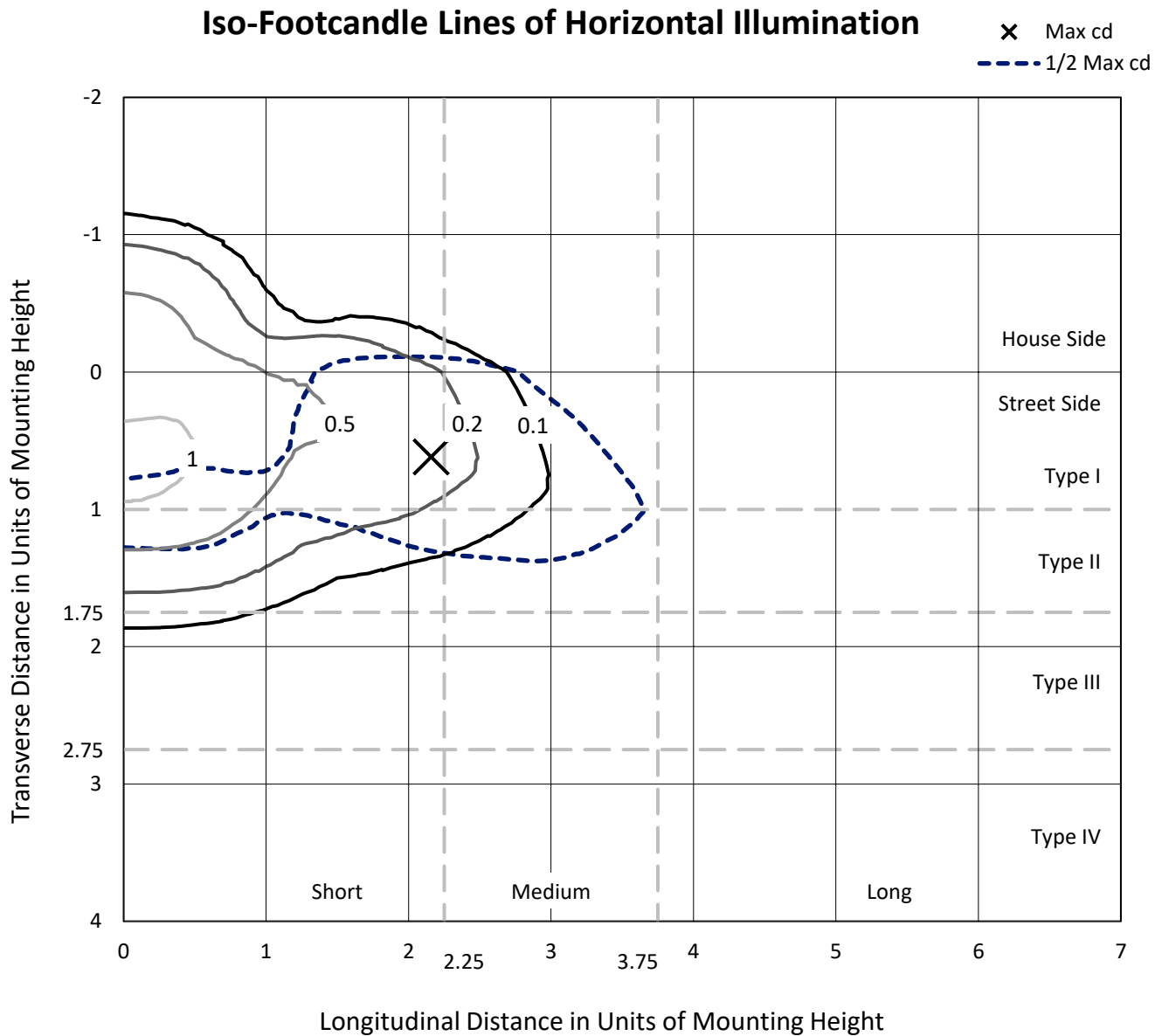
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3524 lumens
Efficiency: N/A
Efficacy: 150.0 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): 23.5
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



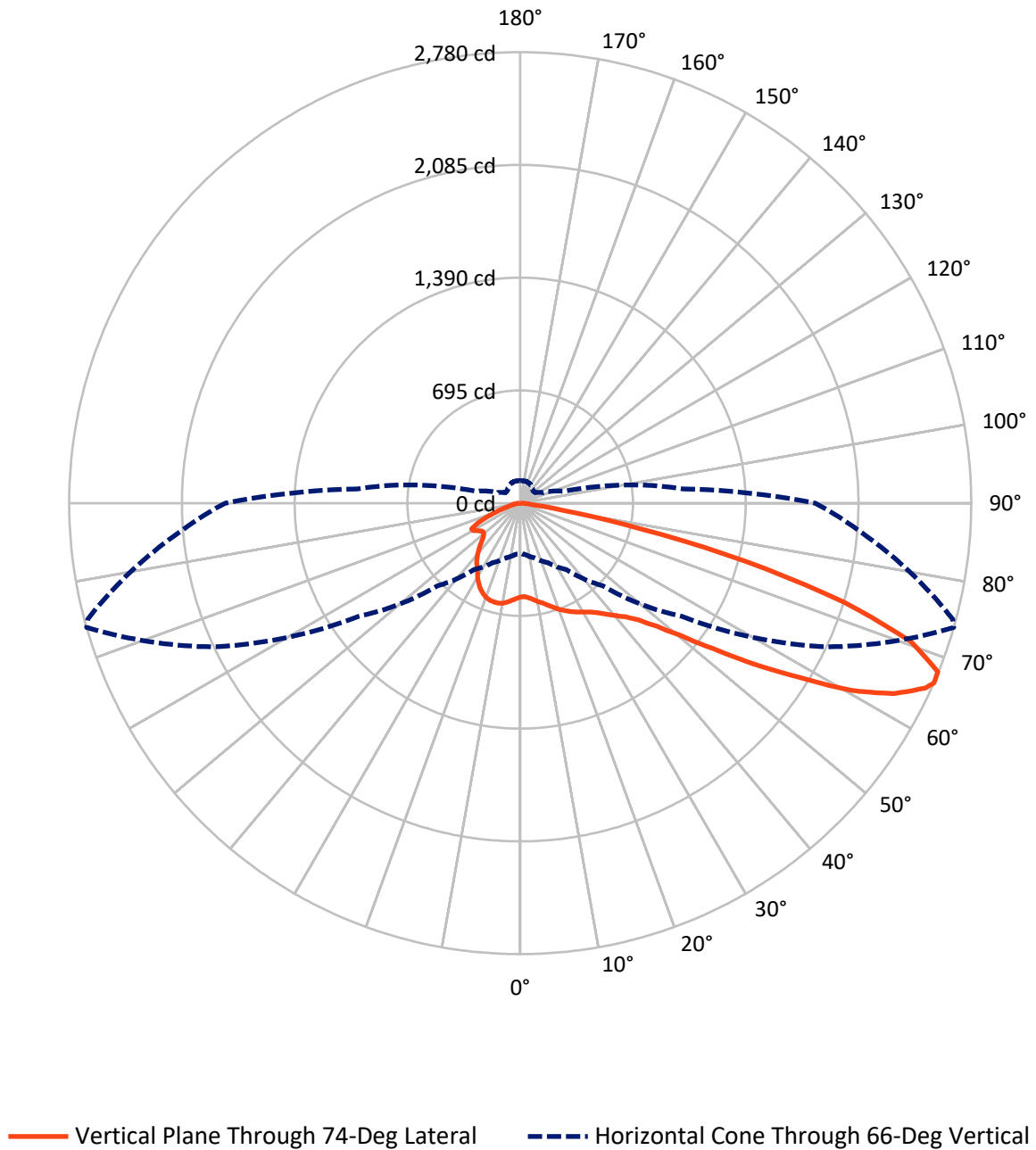
REPORT NUMBER: P1209917
CATALOG NUMBER: ARCH1-20-730-U-T2RE



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
Type II - Short - N/A

REPORT NUMBER: P1209917
CATALOG NUMBER: ARCH1-20-730-U-T2RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1209917

CATALOG NUMBER: ARCH1-20-730-U-T2RE

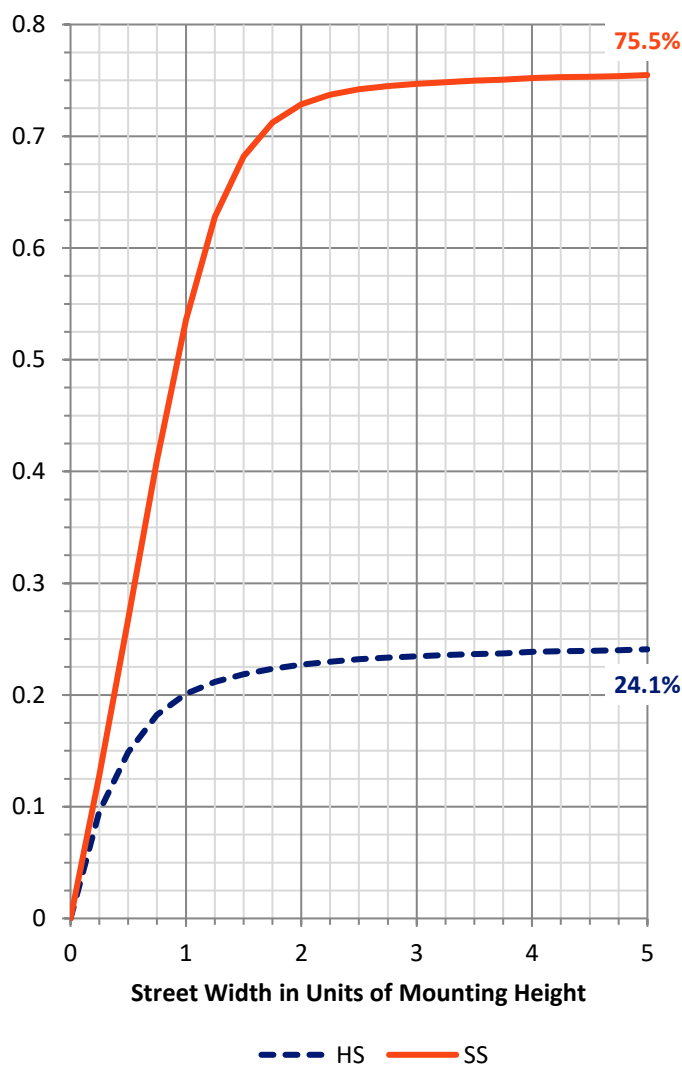
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	858.2	0.0	858.2
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	2665.8	0.0	2665.8
	% Fixture	75.6	0.0	75.6
Total	Lumens	3524.0	0.0	3524.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	1.6
10°-20°	169.5	4.8
20°-30°	318.0	9.0
30°-40°	489.2	13.9
40°-50°	658.0	18.7
50°-60°	778.1	22.1
60°-70°	719.8	20.4
70°-80°	302.8	8.6
80°-90°	33.5	1.0
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°	3524.0	100.0
0°-180°	3524.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1209917

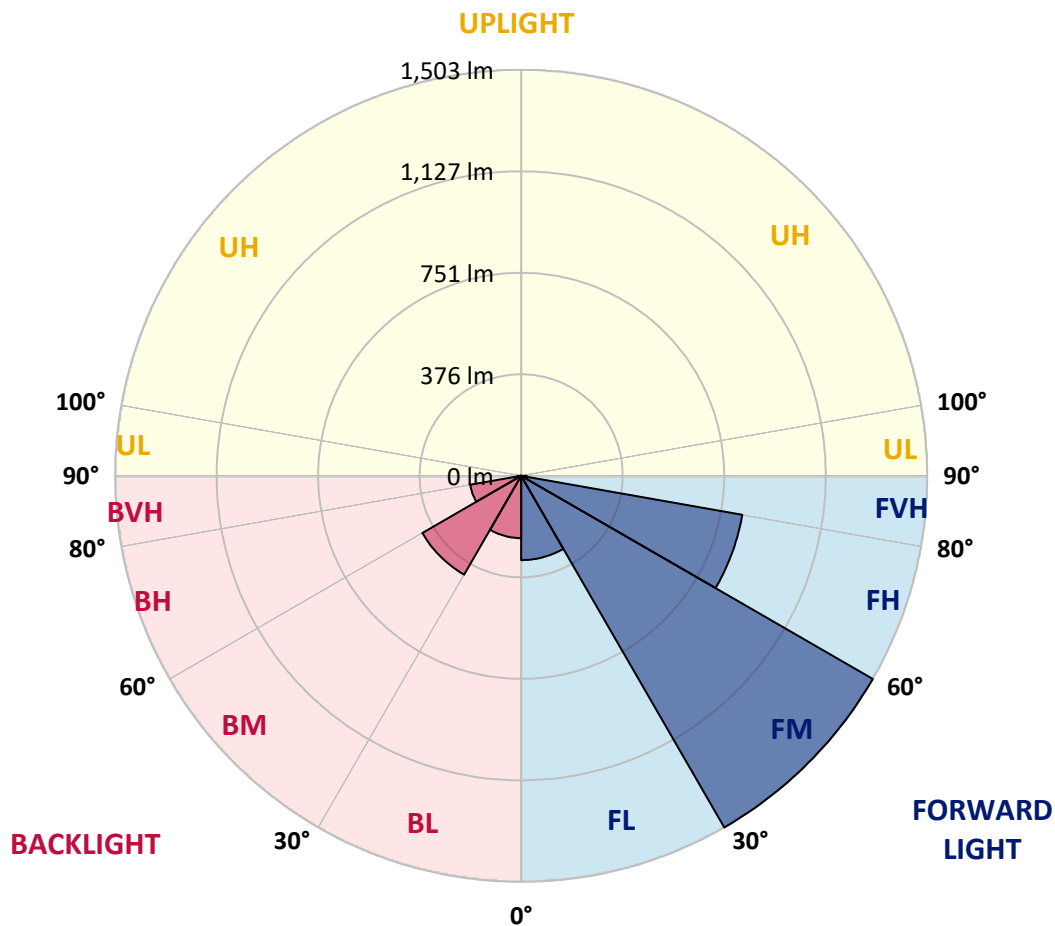
CATALOG NUMBER: ARCH1-20-730-U-T2RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	311.9	8.9			
FM	(30°-60°)	1502.8	42.6			
FH	(60°-80°)	831.1	23.6			G1/1800
FVH	(80°-90°)	20.0	0.6			G1/100
BL	(0°-30°)	230.7	6.5	B1/500		
BM	(30°-60°)	422.5	12.0	B1/1000		
BH	(60°-80°)	191.6	5.4	B1/500		G1/500
BVH	(80°-90°)	13.5	0.4			G1/100
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: P1209917

CATALOG NUMBER: ARCH1-20-730-U-T2RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	577.7	577.7	577.7	577.7	577.7	577.7	577.7	577.7	577.7	577.7	577.7
2.5°	575.9	575.0	576.8	579.5	580.9	578.6	577.7	577.2	577.2	575.9	578.2
5°	548.7	548.2	552.3	557.3	566.8	573.6	582.7	588.1	586.3	583.6	585.4
7.5°	513.3	512.4	517.4	526.9	540.1	555.0	577.2	594.5	601.3	600.4	599.9
10°	526.9	526.0	525.6	522.8	527.4	541.9	565.0	595.4	618.5	619.0	619.4
12.5°	574.1	576.3	574.1	565.5	555.5	550.0	563.6	597.7	633.0	635.7	647.1
15°	638.5	636.2	631.7	621.7	606.3	589.9	580.0	608.1	653.9	656.1	681.1
17.5°	695.1	697.0	694.2	684.7	666.6	645.3	614.9	626.2	676.1	682.4	717.4
20°	756.8	764.1	760.4	748.7	733.7	701.9	663.9	652.5	700.6	705.1	755.0
22.5°	828.0	835.7	828.9	817.6	805.3	766.3	717.4	684.7	721.0	730.5	791.3
25°	913.3	920.5	914.2	896.5	881.1	833.4	775.0	721.0	740.9	751.4	820.8
27.5°	980.8	986.3	992.2	981.7	958.1	908.7	834.8	758.6	760.9	771.8	848.0
30°	1041.1	1054.7	1059.7	1061.1	1041.1	985.8	896.0	797.6	778.1	789.5	875.2
32.5°	1123.7	1144.1	1135.9	1144.1	1132.3	1058.4	959.5	838.0	800.3	810.8	901.0
35°	1244.3	1260.6	1239.3	1232.9	1213.9	1131.8	1020.7	879.7	829.8	841.2	925.5
37.5°	1374.0	1392.6	1361.7	1336.3	1300.1	1204.4	1073.3	934.6	870.6	879.7	948.2
40°	1487.3	1502.7	1476.0	1442.4	1381.7	1268.3	1118.7	973.1	911.4	922.8	974.5
42.5°	1592.1	1602.1	1572.1	1539.9	1458.8	1325.9	1167.6	1013.9	959.1	969.9	995.8
45°	1698.2	1705.9	1664.2	1618.4	1523.2	1378.5	1221.6	1071.1	1028.9	1043.4	1030.2
47.5°	1717.2	1719.5	1712.2	1681.4	1573.9	1428.8	1288.3	1147.7	1135.4	1151.3	1089.7
50°	1585.3	1605.7	1650.6	1681.0	1594.3	1471.0	1354.9	1257.4	1282.4	1302.8	1213.0
52.5°	1329.1	1348.6	1452.4	1567.6	1545.4	1480.5	1426.6	1396.6	1489.6	1514.1	1380.8
55°	1058.8	1076.0	1185.8	1351.7	1387.1	1437.0	1503.2	1574.4	1754.0	1770.3	1564.9
57.5°	872.0	881.5	960.0	1119.6	1176.3	1297.8	1544.5	1785.7	2022.9	2047.8	1724.9
60°	715.1	725.5	784.0	915.5	990.8	1098.7	1511.8	1994.3	2343.9	2343.9	1930.4
62.5°	538.3	547.3	601.7	704.7	831.2	930.0	1407.5	2132.6	2586.0	2575.2	2079.1
65°	369.6	376.8	416.3	484.7	598.6	792.6	1265.1	2134.4	2746.6	2732.1	2142.6
66°	310.2	316.5	350.1	405.4	501.1	719.2	1214.8	2095.9	2780.1	2759.7	2115.8
67.5°	244.9	249.4	271.6	304.3	367.3	582.2	1135.4	1986.6	2777.0	2764.7	2047.8
70°	175.0	178.2	194.5	201.3	217.2	336.9	901.9	1739.9	2554.3	2557.9	1780.3
72.5°	135.6	140.6	150.5	151.9	148.3	179.1	547.3	1451.5	2089.5	2088.2	1321.4
75°	109.3	112.0	117.0	119.7	118.8	115.6	231.7	1082.8	1438.4	1455.1	740.0
77.5°	86.2	85.7	90.2	93.9	96.6	90.7	106.1	634.8	754.1	732.8	278.0
80°	63.5	63.5	69.8	71.2	75.3	76.2	70.7	244.9	258.9	235.3	72.1
82.5°	41.7	41.7	48.5	49.4	53.5	59.4	51.2	73.5	71.6	68.0	32.6
85°	22.7	21.8	24.0	27.2	29.5	34.9	30.8	36.7	37.6	37.2	21.8
87.5°	4.5	4.1	6.3	7.3	8.2	10.9	10.0	15.0	20.9	20.4	9.5
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: P1209917

CATALOG NUMBER: ARCH1-20-730-U-T2RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	577.7	577.7	577.7	577.7	577.7	577.7	577.7	577.7	577.7	577.7	577.7
2.5°	581.3	580.9	585.9	591.8	598.6	602.6	604.5	607.6	605.4	606.3	609.0
5°	589.9	591.3	598.6	606.3	609.4	607.2	602.2	600.4	596.3	595.4	594.5
7.5°	602.6	604.9	612.2	614.0	604.5	588.6	577.2	570.9	564.1	562.3	561.4
10°	623.5	624.9	626.7	608.1	584.5	563.2	549.1	543.2	538.7	535.1	536.0
12.5°	649.8	648.9	634.8	596.3	562.7	541.0	531.4	527.8	524.6	522.4	521.9
15°	682.9	676.6	636.2	580.0	542.3	524.2	517.4	516.0	512.4	512.4	511.9
17.5°	716.5	700.1	635.3	562.7	522.8	512.9	508.8	507.9	507.0	506.5	507.9
20°	750.0	721.0	628.0	541.4	509.2	503.3	502.4	502.9	502.0	503.3	502.4
22.5°	779.5	734.6	614.4	518.8	499.7	499.3	497.0	497.9	501.1	501.5	502.9
25°	802.2	739.6	594.5	497.9	492.9	492.0	494.7	498.3	501.1	501.5	503.8
27.5°	820.8	736.9	569.5	481.6	481.1	486.1	494.3	495.6	496.1	496.1	494.3
30°	834.8	731.0	537.8	463.4	465.7	477.9	485.6	485.6	482.0	481.1	483.8
32.5°	838.0	723.3	503.3	444.8	448.5	463.0	472.5	469.3	465.2	465.2	467.1
35°	840.7	712.8	475.7	419.4	424.9	442.1	451.2	444.8	440.3	438.9	438.5
37.5°	839.8	708.7	450.7	387.2	394.5	411.3	417.2	411.3	404.5	401.3	405.4
40°	840.7	706.0	419.4	351.9	359.1	369.1	376.8	372.3	365.9	357.8	361.9
42.5°	846.1	709.7	385.0	317.4	317.4	322.9	336.0	332.8	317.4	314.2	317.9
45°	875.2	729.2	350.5	283.0	278.0	281.6	295.2	281.6	272.1	272.1	275.2
47.5°	945.5	765.4	320.1	252.6	240.8	248.0	251.7	239.0	231.7	229.9	233.1
50°	1088.7	838.0	302.0	227.6	213.1	218.6	216.3	215.8	208.6	209.5	211.3
52.5°	1306.4	979.5	296.6	215.4	197.3	198.6	196.3	197.3	195.9	200.4	201.8
55°	1543.6	1128.6	303.4	217.2	186.4	176.8	177.8	182.3	187.7	195.0	196.3
57.5°	1720.9	1203.5	321.0	229.4	172.8	158.3	160.5	169.1	179.6	185.5	188.6
60°	1852.8	1194.4	346.9	232.6	156.4	141.5	145.6	158.3	167.3	172.3	175.5
62.5°	1895.9	1137.7	353.2	209.5	135.1	125.6	135.6	148.7	152.8	158.3	160.5
65°	1860.5	1057.5	307.0	170.0	118.8	113.8	128.3	138.3	143.7	146.5	146.9
66°	1818.8	1009.4	282.0	154.6	112.9	110.2	125.6	133.8	139.2	138.8	139.2
67.5°	1727.2	908.7	241.7	132.9	104.3	104.7	121.1	126.5	128.3	127.0	127.0
70°	1415.7	639.8	173.2	100.7	91.6	97.9	108.8	110.2	114.3	112.5	112.5
72.5°	872.9	314.2	116.1	77.1	81.6	91.6	91.1	95.7	105.2	107.9	109.7
75°	429.0	127.4	76.6	65.3	73.0	76.6	75.7	87.1	100.7	112.5	116.5
77.5°	162.8	63.5	53.5	57.1	58.9	57.6	60.3	78.9	100.7	122.0	126.1
80°	50.3	44.0	42.2	47.2	44.4	42.2	45.3	65.3	85.2	92.5	92.5
82.5°	30.4	34.5	32.6	32.2	29.9	30.4	32.6	46.7	65.8	68.9	68.9
85°	21.3	22.7	18.6	17.7	17.2	16.8	16.8	27.2	39.0	38.5	39.9
87.5°	8.2	9.1	6.8	6.8	6.3	4.5	3.6	4.5	4.5	3.2	2.3
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)