

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: P1209927

Luminaire Tested: **ARCH1-20-740-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1209927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-20-740-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3668 lumens
Efficiency: N/A
Efficacy: 156.1 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

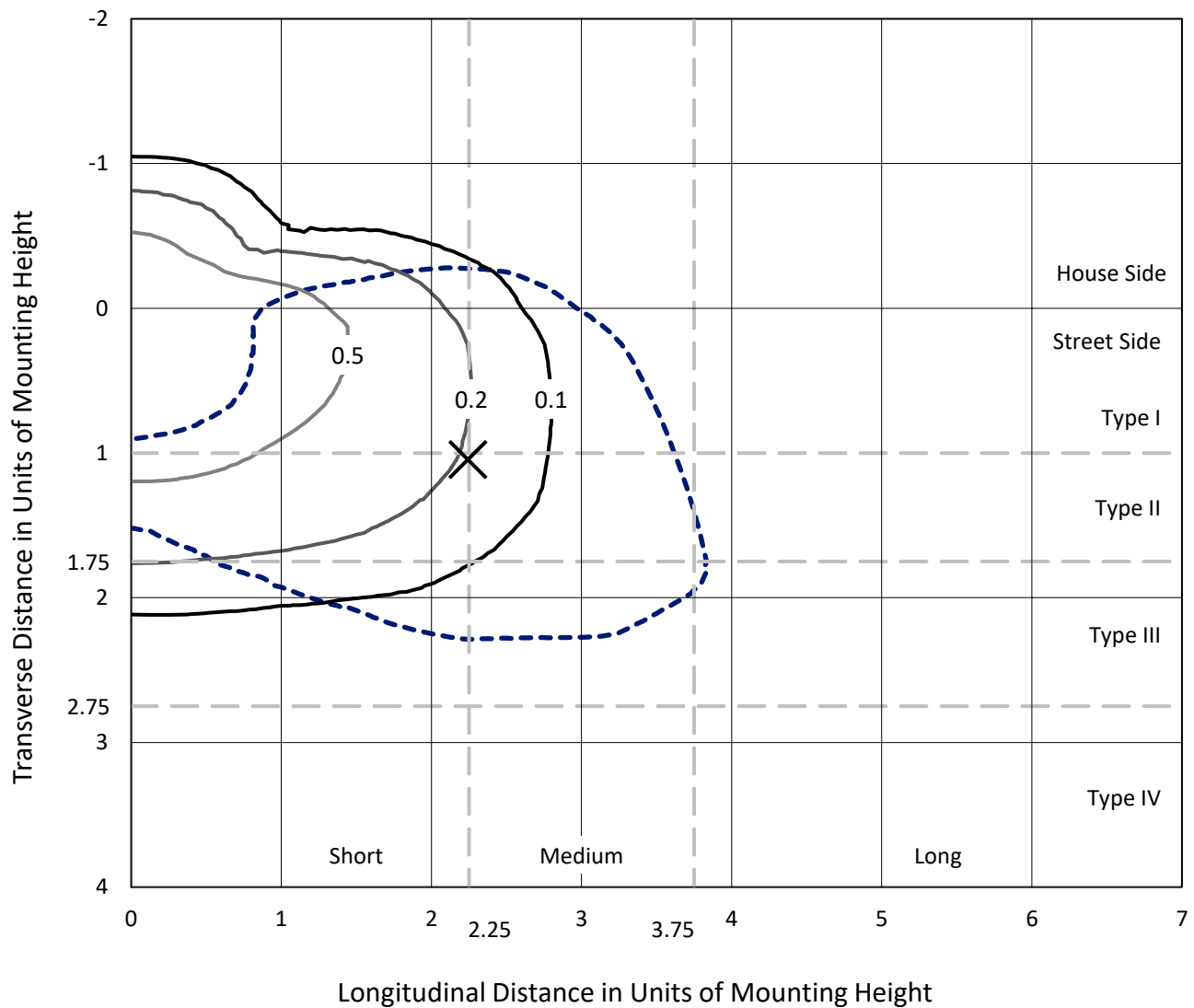
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

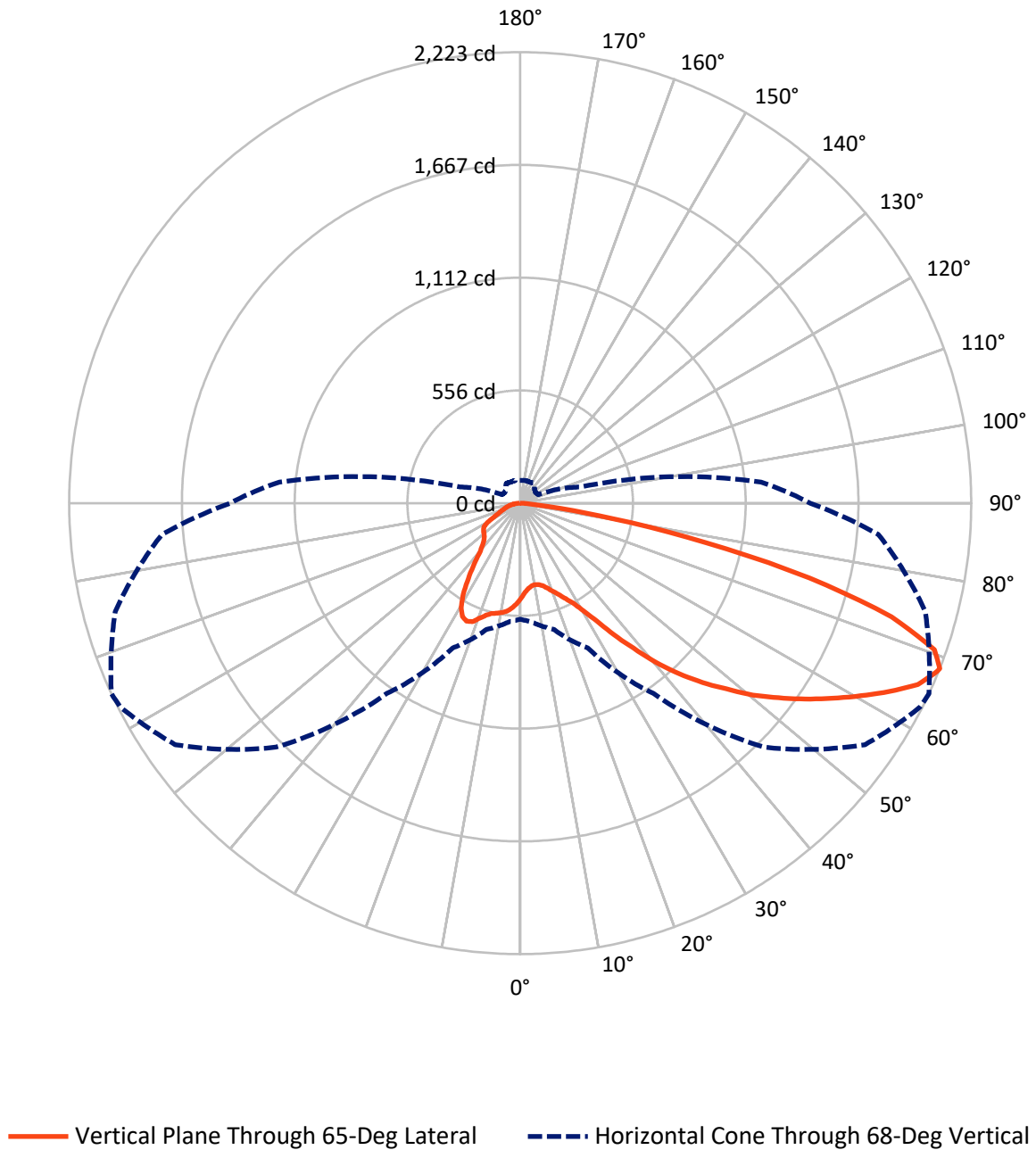
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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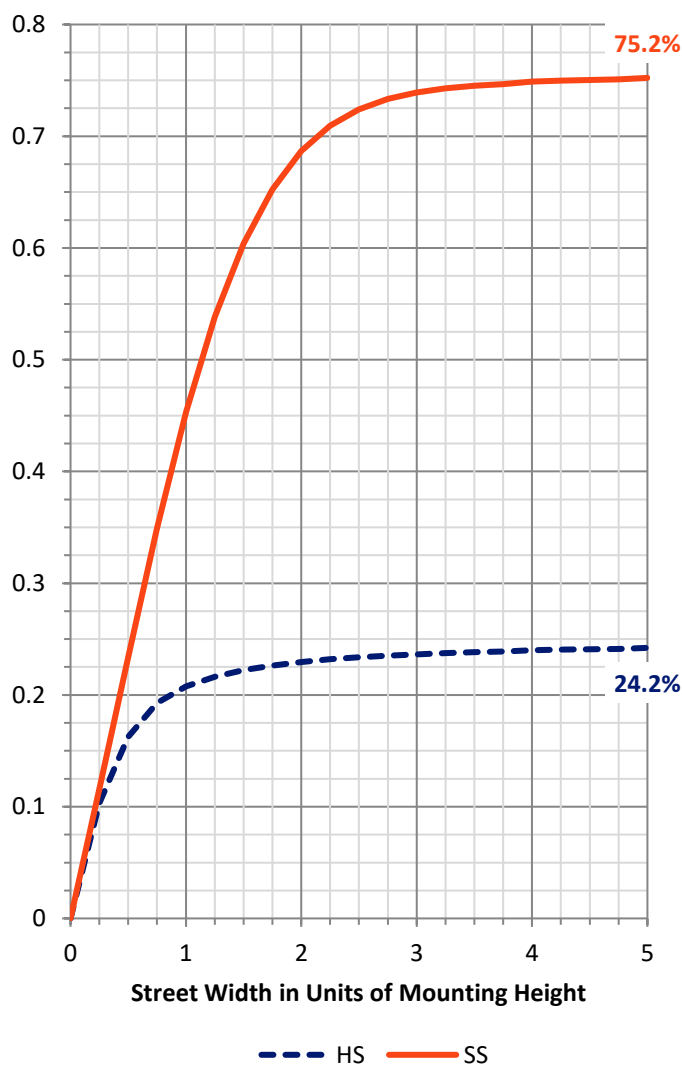
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	899.3	0.0	899.3
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	2768.7	0.0	2768.7
	% Fixture	75.5	0.0	75.5
Total	Lumens	3668.0	0.0	3668.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.8	1.2
10°-20°	145.9	4.0
20°-30°	264.0	7.2
30°-40°	415.3	11.3
40°-50°	618.5	16.9
50°-60°	811.4	22.1
60°-70°	887.3	24.2
70°-80°	439.0	12.0
80°-90°	41.9	1.1
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°	3668.0	100.0
0°-180°	3668.0	100.0

Coefficient of Utilization



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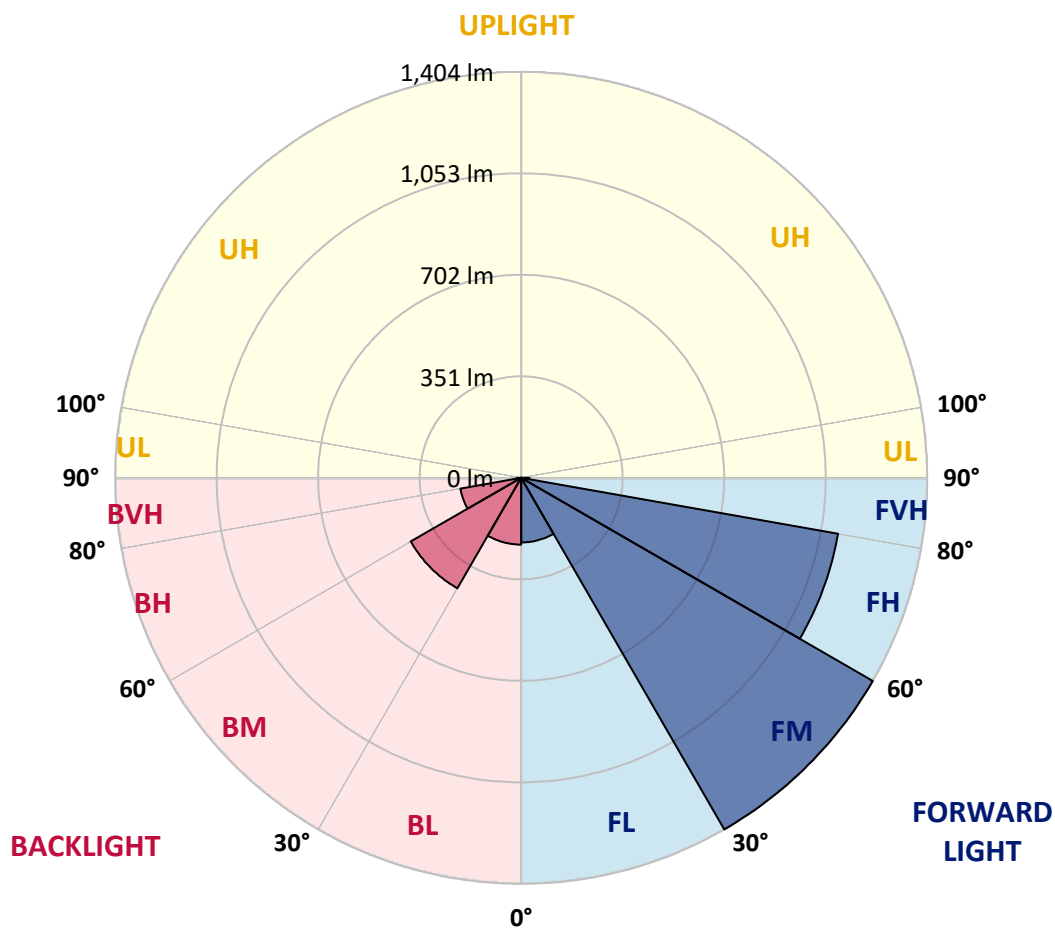
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	223.6	6.1			
FM	(30°-60°)	1404.1	38.3			
FH	(60°-80°)	1112.9	30.3			G1/1800
FVH	(80°-90°)	28.2	0.8			G1/100
BL	(0°-30°)	231.0	6.3	B1/500		
BM	(30°-60°)	441.1	12.0	B1/1000		
BH	(60°-80°)	213.4	5.8	B1/500		G1/500
BVH	(80°-90°)	13.7	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	468.7	468.7	468.7	468.7	468.7	468.7	468.7	468.7	468.7	468.7	468.7
2.5°	409.1	408.2	410.5	412.9	418.1	424.3	432.8	439.9	440.8	454.1	464.5
5°	385.0	383.6	386.0	388.8	391.2	398.7	407.7	418.1	422.4	441.8	464.0
7.5°	387.4	386.9	387.8	386.9	386.9	390.2	396.4	406.8	411.5	434.7	466.4
10°	401.1	402.0	402.5	399.7	396.8	395.4	397.3	404.4	407.7	435.1	476.8
12.5°	423.8	425.2	425.7	420.5	416.7	410.5	407.2	410.1	412.4	439.9	491.4
15°	454.5	455.5	452.2	448.9	439.4	431.8	423.8	421.4	422.4	449.8	508.0
17.5°	490.5	489.1	489.1	481.0	468.7	456.9	443.7	441.8	441.8	465.9	531.6
20°	529.7	531.2	526.9	516.0	503.7	485.3	472.0	463.5	464.5	484.3	560.5
22.5°	586.5	588.9	577.5	561.9	543.0	521.7	502.8	489.1	489.5	508.5	590.3
25°	647.5	648.5	641.4	620.6	595.0	564.7	539.7	522.2	521.7	535.4	628.6
27.5°	709.9	714.2	700.0	680.1	656.5	618.7	585.6	561.9	558.1	576.6	676.4
30°	774.3	779.5	765.8	746.4	717.0	684.9	645.6	618.2	615.8	640.4	740.2
32.5°	839.1	840.5	829.6	813.5	787.0	756.8	725.1	694.8	692.4	732.7	823.0
35°	892.0	896.3	888.7	885.0	865.6	837.7	806.9	789.4	795.6	847.1	930.4
37.5°	955.9	960.2	951.6	950.7	944.5	920.4	899.1	900.6	906.7	976.7	1043.4
40°	1048.1	1052.9	1031.1	1021.6	1021.6	998.0	990.9	1024.5	1032.5	1104.4	1161.2
42.5°	1126.2	1133.7	1121.0	1114.8	1096.4	1079.8	1088.3	1135.6	1149.3	1226.4	1263.8
45°	1164.0	1169.7	1184.8	1202.8	1184.8	1156.0	1188.1	1241.6	1261.0	1339.0	1366.4
47.5°	1184.3	1189.6	1207.1	1255.3	1267.6	1243.5	1288.9	1355.6	1368.8	1450.6	1464.4
50°	1187.2	1203.7	1226.4	1274.7	1331.0	1334.3	1390.1	1471.4	1487.1	1560.4	1550.4
52.5°	1164.0	1170.6	1217.5	1298.8	1361.2	1418.0	1500.3	1582.6	1594.0	1663.5	1626.6
55°	1126.2	1135.6	1182.5	1293.1	1390.6	1497.5	1612.4	1691.9	1704.6	1763.8	1697.1
57.5°	1092.1	1096.8	1147.0	1276.6	1419.9	1576.9	1712.2	1805.8	1814.4	1851.7	1749.1
60°	1054.3	1059.5	1109.6	1241.1	1441.7	1637.0	1816.3	1920.8	1928.4	1944.4	1809.6
62.5°	956.4	970.1	1033.0	1182.5	1436.0	1705.6	1927.4	2034.3	2043.8	2026.3	1857.4
65°	776.6	796.0	873.1	1049.5	1383.0	1750.0	2018.2	2138.8	2154.9	2087.7	1870.2
67.5°	603.1	616.8	678.7	832.9	1197.1	1727.8	2076.9	2210.7	2215.5	2077.8	1799.2
68°	571.8	585.6	644.7	787.5	1145.6	1701.3	2075.4	2212.6	2223.0	2066.9	1771.8
70°	437.5	453.1	509.4	623.9	923.3	1532.9	1988.9	2167.2	2165.8	1935.4	1601.5
72.5°	273.4	282.4	321.2	393.5	610.6	1166.4	1688.1	1911.3	1915.1	1577.9	1228.3
75°	173.6	173.6	171.7	190.6	313.1	664.5	1254.8	1471.4	1474.3	1104.9	774.3
77.5°	150.9	146.6	126.3	106.9	124.9	258.2	742.6	950.2	934.6	595.0	367.5
80°	127.2	120.1	103.6	86.1	80.4	80.9	285.2	482.4	461.6	214.3	122.0
82.5°	91.8	85.6	78.0	67.6	62.0	48.2	59.6	139.5	136.2	62.0	39.7
85°	49.7	44.9	44.0	44.5	37.4	29.8	25.1	30.7	30.7	27.0	22.7
87.5°	17.5	12.8	15.1	17.0	14.7	12.3	9.9	11.8	12.3	11.8	10.9
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°	468.7	468.7	468.7	468.7	468.7	468.7	468.7	468.7	468.7	468.7	468.7
2.5°	470.6	475.3	486.7	496.6	503.7	509.9	513.2	514.6	517.9	518.4	517.4
5°	474.4	486.7	503.7	518.4	526.4	529.7	530.7	531.2	529.7	530.7	529.7
7.5°	484.3	499.9	524.1	536.8	538.3	533.1	533.5	531.6	533.5	535.4	535.4
10°	499.5	519.3	542.0	546.8	540.6	537.8	543.5	554.8	558.6	563.8	563.8
12.5°	519.3	543.0	559.1	554.8	549.1	558.6	575.1	586.5	590.3	592.2	590.8
15°	542.0	567.6	575.6	561.4	571.8	592.2	597.9	591.2	581.8	577.5	579.9
17.5°	570.9	592.2	587.4	578.0	601.6	604.5	586.0	564.7	549.6	543.9	547.7
20°	601.2	619.6	597.9	602.1	616.8	586.5	551.5	524.1	510.8	508.5	512.2
22.5°	633.3	645.1	608.3	630.0	608.3	546.8	504.7	490.5	487.2	491.0	494.3
25°	669.7	668.3	626.2	638.5	576.6	498.1	473.0	472.0	472.0	474.4	479.1
27.5°	710.9	688.7	644.2	627.2	521.7	457.8	453.1	453.6	452.2	452.6	455.0
30°	758.7	716.1	664.1	589.8	460.2	427.6	425.7	424.3	421.0	420.0	421.0
32.5°	818.7	744.9	684.4	528.3	406.3	396.4	395.4	387.8	379.8	378.9	382.2
35°	894.9	797.4	694.8	451.2	361.8	361.4	358.0	346.2	335.8	335.8	333.5
37.5°	981.9	865.1	699.1	376.0	324.9	327.3	317.8	302.7	294.7	289.9	291.4
40°	1070.8	942.2	698.6	310.3	292.8	293.2	286.2	267.7	247.8	236.0	238.9
42.5°	1156.4	1012.2	686.3	275.3	266.8	265.3	259.7	234.6	218.0	208.6	209.1
45°	1225.0	1084.5	667.4	254.5	243.1	245.5	232.7	217.6	202.4	193.9	193.4
47.5°	1293.6	1139.4	637.1	241.7	225.6	221.4	216.2	205.7	194.4	184.9	185.4
50°	1356.0	1186.2	608.7	233.2	209.5	198.7	199.6	193.4	183.5	175.0	174.5
52.5°	1400.0	1217.0	593.1	228.5	190.1	178.3	181.6	178.3	168.9	162.7	162.2
55°	1444.0	1240.6	598.3	222.3	168.9	159.4	165.1	164.1	158.9	157.0	157.5
57.5°	1479.5	1258.6	616.8	211.0	148.5	142.8	152.3	149.5	145.7	146.2	146.2
60°	1514.0	1281.8	638.5	184.9	131.0	131.5	140.5	135.3	132.9	137.2	137.6
62.5°	1550.0	1306.9	620.6	147.1	115.9	119.2	129.6	125.3	126.3	132.4	134.3
65°	1545.7	1304.5	505.6	120.6	102.6	109.3	124.9	123.4	123.9	126.3	127.2
67.5°	1458.7	1221.2	347.6	102.6	93.2	101.2	121.1	115.4	115.9	114.5	114.9
68°	1429.4	1191.9	306.5	99.8	91.3	99.3	119.2	114.0	114.5	113.0	112.6
70°	1269.5	1020.7	193.9	88.0	84.7	94.1	109.7	107.8	107.4	106.4	106.4
72.5°	967.7	753.5	102.2	76.2	77.1	86.1	97.9	101.7	99.3	99.8	102.6
75°	640.9	453.1	70.9	65.3	67.6	73.8	87.0	94.6	92.2	93.7	92.2
77.5°	339.1	244.1	56.8	55.3	55.3	59.6	71.9	83.7	83.7	82.8	81.4
80°	111.2	86.1	45.4	43.5	44.5	46.8	57.7	68.6	70.0	68.1	67.2
82.5°	37.4	39.7	34.1	31.7	32.6	34.5	43.5	52.5	53.0	49.2	48.2
85°	23.2	26.5	21.3	20.8	20.8	21.3	26.5	28.9	26.5	23.6	24.6
87.5°	10.9	13.2	9.9	8.5	7.1	6.1	4.7	1.9	1.9	0.9	0.9
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)