

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: P1210020

Luminaire Tested: **ARCH1-50-740-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210020
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-50-740-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1470mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5012 lumens
Efficiency: N/A
Efficacy: 94.6 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

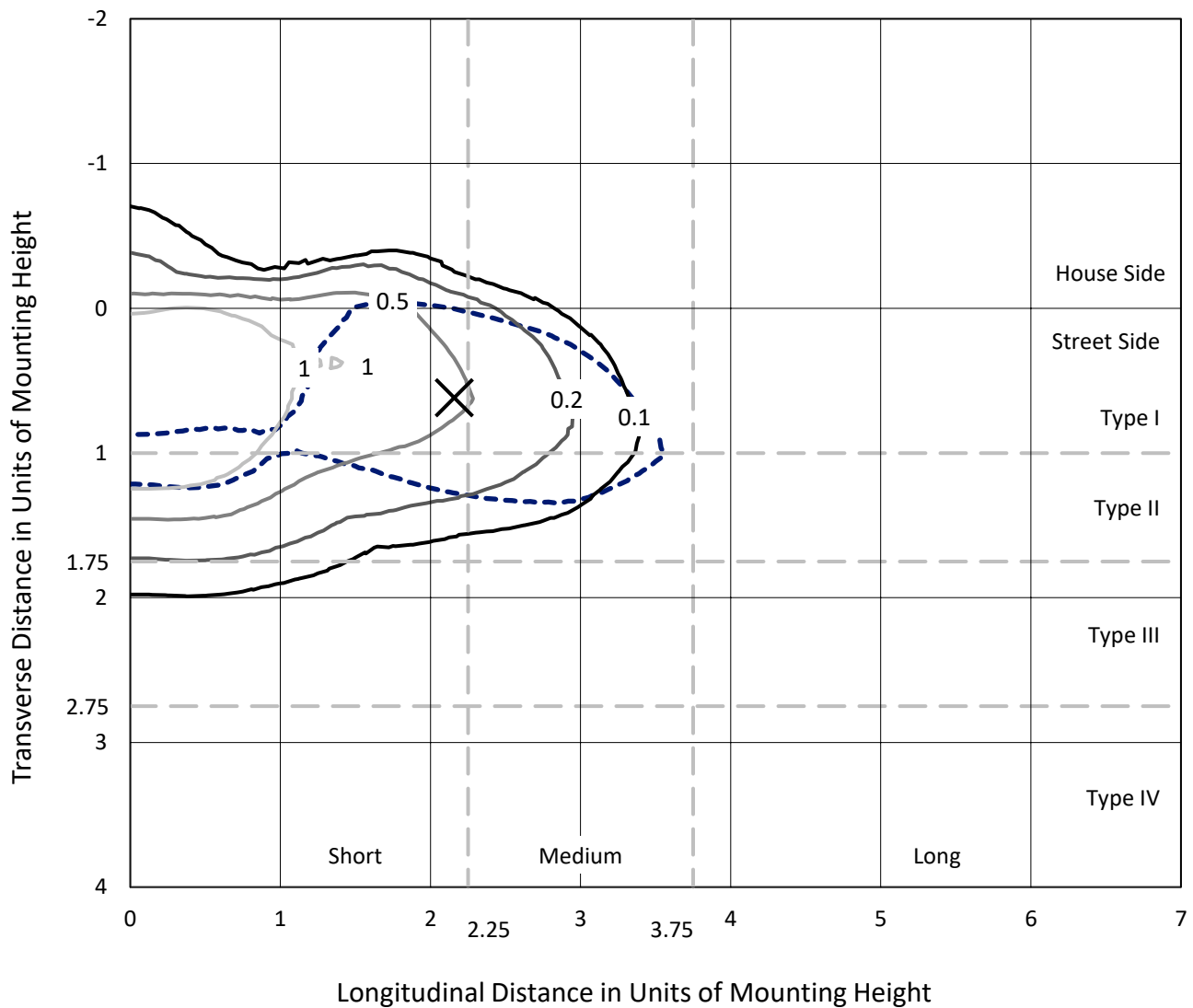
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

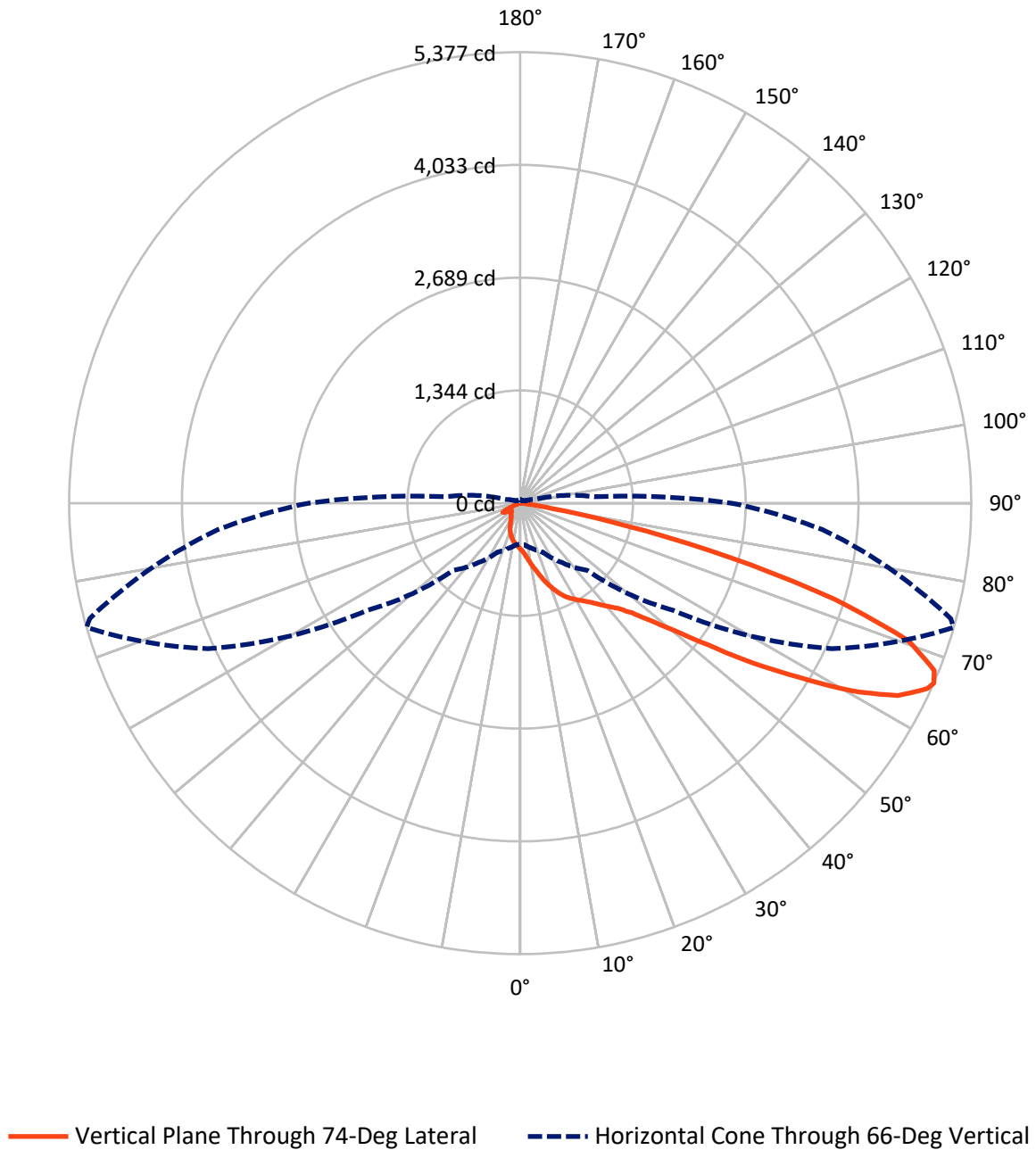
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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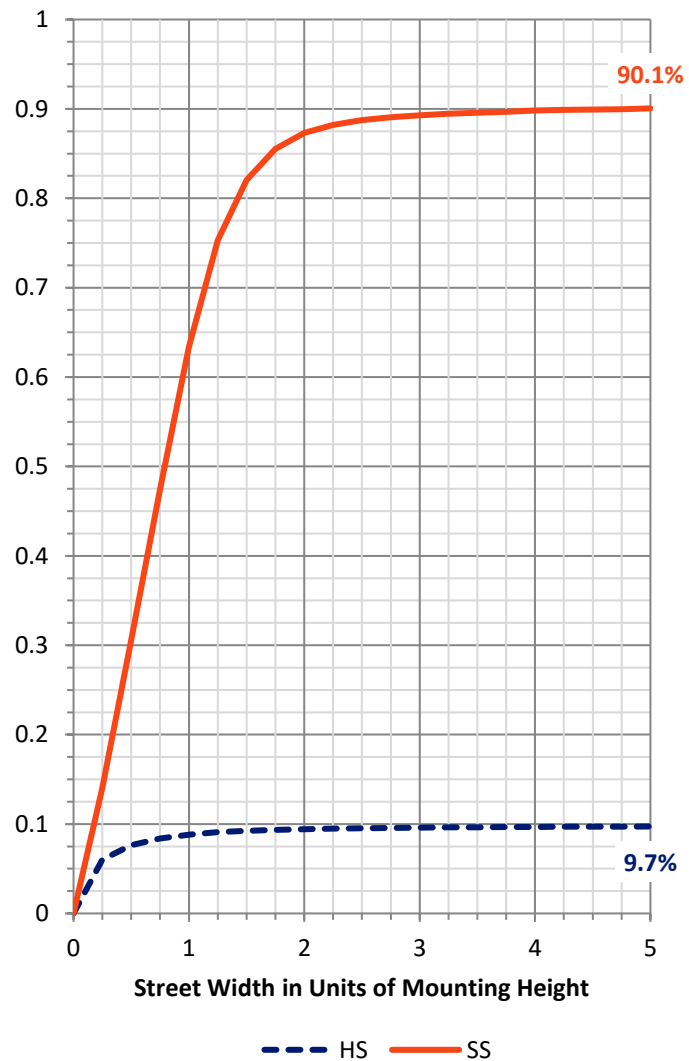
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	491.4	0.0	491.4
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	4520.7	0.0	4520.7
	% Fixture	90.2	0.0	90.2
Total	Lumens	5012.0	0.0	5012.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	1.1
10°-20°	171.2	3.4
20°-30°	326.7	6.5
30°-40°	572.7	11.4
40°-50°	982.0	19.6
50°-60°	1277.1	25.5
60°-70°	1156.1	23.1
70°-80°	446.1	8.9
80°-90°	26.8	0.5
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°	5012.0	100.0
0°-180°	5012.0	100.0

Coefficient of Utilization



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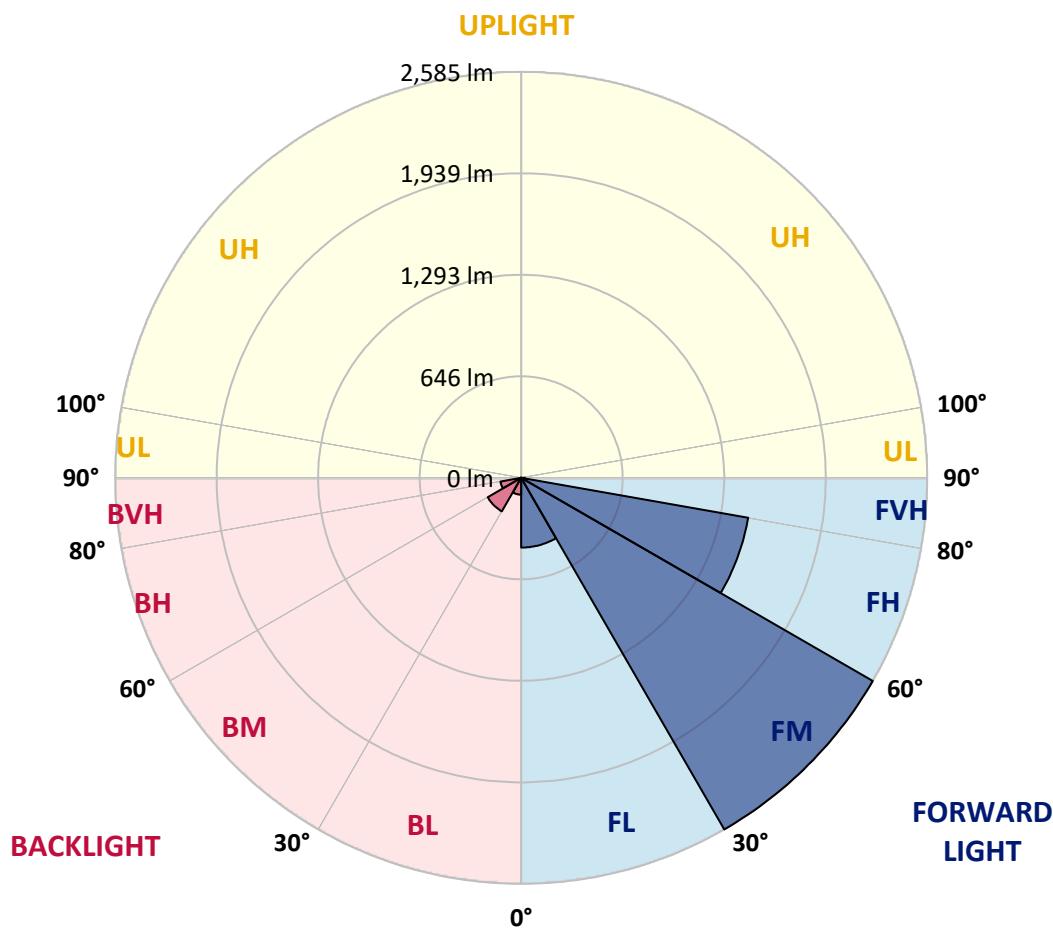
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	444.1	8.9			
FM	(30°-60°)	2585.4	51.6			
FH	(60°-80°)	1467.8	29.3			G1/1800
FVH	(80°-90°)	23.2	0.5			G1/100
BL	(0°-30°)	107.2	2.1	B0/110		
BM	(30°-60°)	246.3	4.9	B1/1000		
BH	(60°-80°)	134.3	2.7	B1/500		G1/500
BVH	(80°-90°)	3.6	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	547.1	547.1	547.1	547.1	547.1	547.1	547.1	547.1	547.1	547.1	547.1
2.5°	656.9	651.5	641.6	640.7	632.6	622.7	605.6	587.6	575.0	573.2	557.9
5°	786.5	783.8	773.9	767.6	752.3	728.9	689.3	649.7	616.4	612.8	578.6
7.5°	820.7	822.5	824.3	830.6	825.2	814.4	784.7	728.9	676.7	668.6	609.2
10°	826.1	824.3	824.3	832.4	847.6	862.9	859.3	811.7	744.2	734.3	651.5
12.5°	884.5	887.2	880.9	877.3	874.6	882.7	909.7	889.0	815.3	807.2	702.8
15°	960.1	959.2	950.2	950.2	942.1	928.6	945.7	961.0	900.7	890.8	761.3
17.5°	1015.0	1018.6	1017.7	1023.1	1020.4	1002.4	993.4	1024.9	988.9	976.3	827.9
20°	1059.1	1069.0	1072.6	1089.7	1097.8	1085.2	1061.8	1081.6	1073.5	1061.8	895.3
22.5°	1105.9	1114.0	1120.3	1150.0	1172.5	1169.8	1140.1	1135.6	1155.4	1144.6	961.9
25°	1152.7	1156.3	1175.2	1211.2	1247.2	1256.2	1225.6	1190.5	1229.2	1219.3	1021.3
27.5°	1204.0	1205.8	1228.3	1272.4	1322.8	1341.7	1317.4	1252.6	1285.9	1285.9	1075.3
30°	1297.6	1315.6	1324.6	1364.2	1408.3	1434.3	1405.6	1318.3	1336.3	1344.4	1132.0
32.5°	1499.1	1501.8	1499.1	1516.2	1525.2	1540.5	1507.2	1392.1	1387.6	1396.6	1187.8
35°	1806.9	1796.1	1767.3	1742.1	1689.9	1661.1	1617.9	1486.5	1450.5	1463.1	1242.7
37.5°	2180.3	2165.0	2099.3	2021.9	1910.4	1795.2	1741.2	1601.7	1530.6	1546.8	1302.1
40°	2536.7	2526.8	2448.5	2353.1	2162.3	1965.3	1851.0	1698.9	1619.7	1626.0	1362.4
42.5°	2830.0	2828.2	2762.5	2662.6	2417.9	2148.8	1980.5	1794.3	1713.3	1723.2	1425.3
45°	3052.3	3035.2	2986.6	2914.6	2665.3	2339.6	2137.1	1939.2	1863.6	1875.3	1519.8
47.5°	3052.3	3055.0	3086.5	3079.3	2838.1	2518.7	2308.1	2121.8	2085.8	2096.6	1675.5
50°	2803.9	2829.1	2969.5	3087.4	2928.1	2658.1	2492.6	2350.4	2387.3	2403.5	1947.3
52.5°	2312.6	2354.9	2598.7	2867.8	2861.5	2728.3	2683.3	2641.0	2806.6	2835.4	2348.6
55°	1757.4	1785.3	2102.9	2456.6	2571.7	2670.7	2849.8	3010.0	3361.8	3355.5	2756.2
57.5°	1312.9	1339.0	1612.5	2004.8	2156.9	2421.5	2935.3	3432.0	3912.5	3936.8	3138.6
60°	965.5	985.3	1218.4	1540.5	1760.1	2039.9	2901.1	3847.7	4546.9	4519.0	3476.1
62.5°	714.5	725.3	893.5	1103.2	1394.8	1662.0	2686.0	4132.1	5053.5	4996.8	3664.2
65°	552.5	556.1	643.4	755.0	1014.1	1292.2	2365.7	4175.3	5333.4	5273.1	3660.6
66°	492.2	494.9	558.8	645.2	862.9	1131.1	2225.3	4106.0	5377.4	5313.6	3615.6
67.5°	413.0	411.2	449.0	505.7	647.9	872.8	1976.1	3903.5	5325.3	5292.9	3471.6
70°	305.9	306.8	325.7	339.2	378.8	483.2	1427.1	3386.1	4907.7	4905.9	3076.6
72.5°	226.8	229.5	243.9	246.6	236.7	261.9	822.5	2693.2	3926.0	3926.9	2300.0
75°	170.1	174.6	179.1	180.9	171.9	165.6	371.6	1812.3	2582.5	2563.6	1302.1
77.5°	129.6	131.4	135.0	132.3	130.5	114.3	154.8	883.6	1275.1	1161.7	422.0
80°	94.5	94.5	98.1	94.5	93.6	81.9	84.6	283.4	374.3	311.3	90.9
82.5°	59.4	58.5	61.2	60.3	58.5	52.2	49.5	79.2	86.4	77.4	44.1
85°	33.3	32.4	31.5	30.6	27.9	23.4	27.0	29.7	39.6	40.5	31.5
87.5°	11.7	11.7	10.8	9.9	8.1	8.1	9.9	9.9	14.4	14.4	16.2
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°	547.1	547.1	547.1	547.1	547.1	547.1	547.1	547.1	547.1	547.1	547.1
2.5°	550.7	540.8	526.4	507.5	494.0	480.5	466.1	458.0	446.3	443.6	447.2
5°	560.6	542.6	506.6	467.0	432.8	402.2	373.4	356.3	339.2	332.9	335.6
7.5°	581.3	550.7	489.5	425.6	368.9	323.0	288.8	269.1	253.8	247.5	249.3
10°	611.9	565.1	473.3	378.8	305.9	257.4	228.6	216.0	207.0	203.4	204.3
12.5°	648.8	585.8	452.6	332.0	252.0	209.7	196.2	193.5	191.7	189.9	190.8
15°	690.2	603.8	428.3	286.1	209.7	186.3	181.8	180.9	180.0	180.0	180.0
17.5°	733.4	620.0	401.3	243.0	182.7	171.9	169.2	169.2	169.2	170.1	170.1
20°	773.9	632.6	369.8	204.3	167.4	158.4	156.6	156.6	157.5	158.4	158.4
22.5°	813.5	638.0	332.9	177.3	154.8	146.7	144.0	144.0	144.0	144.9	144.9
25°	847.6	638.0	296.0	160.2	144.0	135.9	132.3	131.4	132.3	132.3	132.3
27.5°	876.4	635.3	260.1	148.5	133.2	125.1	121.5	120.6	122.4	123.3	123.3
30°	907.0	631.7	231.3	137.7	124.2	116.1	112.5	112.5	115.2	118.8	118.8
32.5°	936.7	634.4	208.8	128.7	115.2	108.9	105.3	106.2	111.6	117.0	117.0
35°	968.2	639.8	195.3	122.4	108.9	102.6	99.9	102.6	108.0	113.4	113.4
37.5°	999.7	646.1	187.2	117.0	103.5	97.2	95.4	99.0	105.3	110.7	111.6
40°	1033.0	651.5	178.2	111.6	99.9	92.7	91.8	95.4	103.5	108.9	109.8
42.5°	1074.4	662.3	167.4	107.1	96.3	87.3	88.2	90.9	99.0	107.1	108.0
45°	1155.4	696.5	156.6	102.6	91.8	84.6	82.8	84.6	93.6	102.6	104.4
47.5°	1307.5	773.9	144.9	98.1	87.3	82.8	75.6	77.4	85.5	95.4	96.3
50°	1599.0	938.5	138.6	93.6	83.7	76.5	68.4	68.4	74.7	83.7	83.7
52.5°	2053.4	1233.7	142.2	90.0	79.2	70.2	62.1	61.2	64.8	71.1	71.1
55°	2543.8	1557.6	155.7	86.4	73.8	66.6	57.6	53.1	55.8	59.4	59.4
57.5°	2932.6	1720.5	192.6	84.6	67.5	63.9	52.2	45.9	48.6	52.2	52.2
60°	3103.6	1625.1	234.0	86.4	63.0	59.4	46.8	40.5	45.0	48.6	49.5
62.5°	2965.0	1338.1	251.1	81.9	56.7	53.1	45.9	37.8	43.2	45.9	46.8
65°	2665.3	1016.8	196.2	71.1	52.2	45.9	41.4	36.0	40.5	43.2	43.2
66°	2523.2	886.3	167.4	65.7	50.4	43.2	39.6	36.0	39.6	41.4	42.3
67.5°	2302.7	699.2	124.2	57.6	46.8	39.6	36.9	34.2	37.8	39.6	39.6
70°	1800.6	416.6	74.7	45.0	40.5	35.1	33.3	31.5	34.2	35.1	35.1
72.5°	1127.5	198.0	47.7	33.3	34.2	33.3	27.9	29.7	30.6	31.5	31.5
75°	546.2	78.3	32.4	24.3	27.9	31.5	22.5	26.1	27.0	28.8	27.9
77.5°	152.1	37.8	20.7	18.0	24.3	24.3	17.1	20.7	24.3	30.6	27.9
80°	44.1	24.3	13.5	13.5	17.1	17.1	11.7	14.4	16.2	18.0	18.9
82.5°	30.6	16.2	9.0	9.9	9.9	10.8	7.2	7.2	9.0	9.0	9.9
85°	24.3	7.2	5.4	6.3	4.5	5.4	3.6	3.6	4.5	3.6	3.6
87.5°	9.9	3.6	3.6	3.6	2.7	2.7	1.8	0.9	0.9	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)