

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: P1209926

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

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1209926
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
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-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 700mA LIGHTSQUARE WITH 10 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

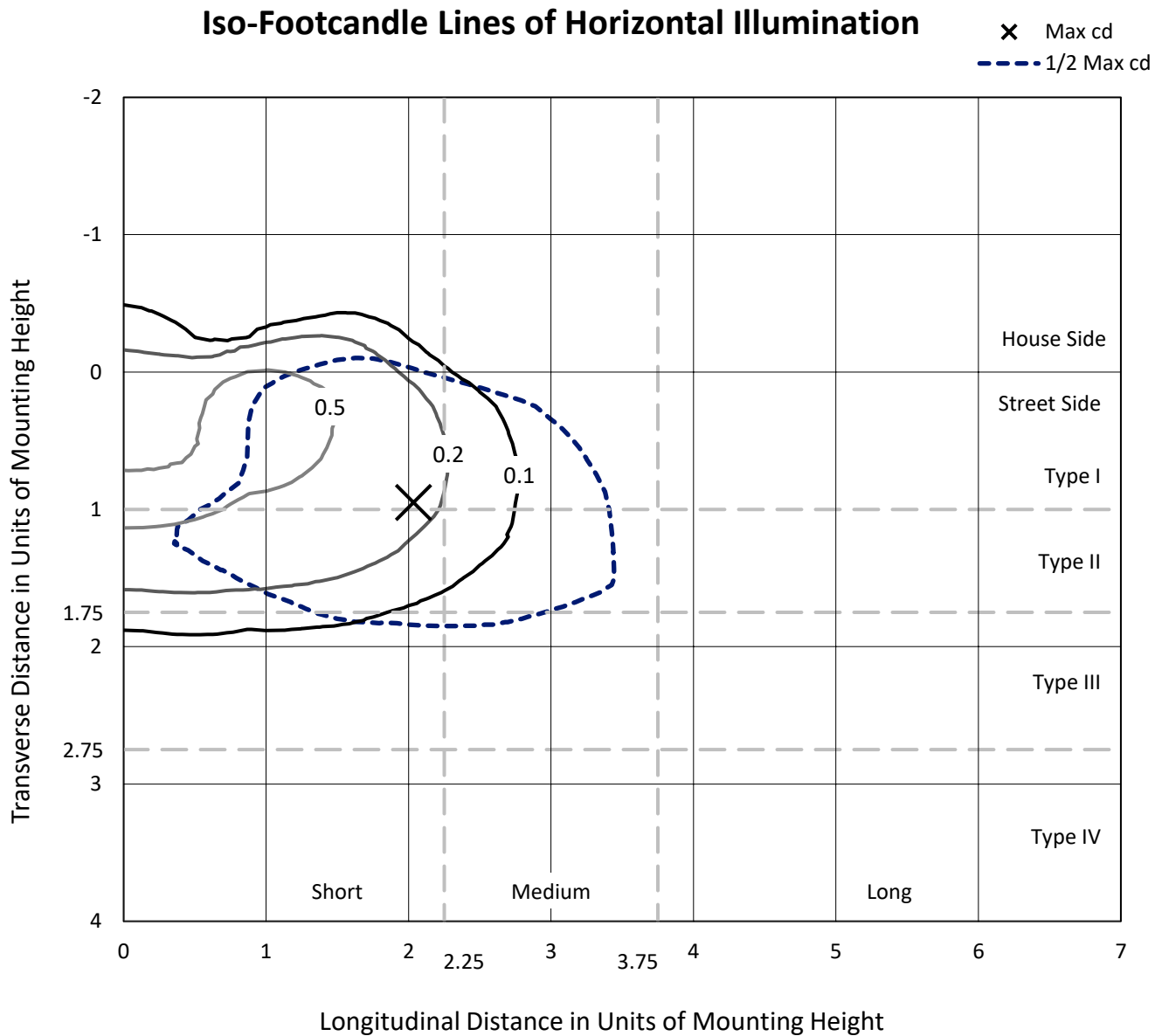
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2607 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - 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



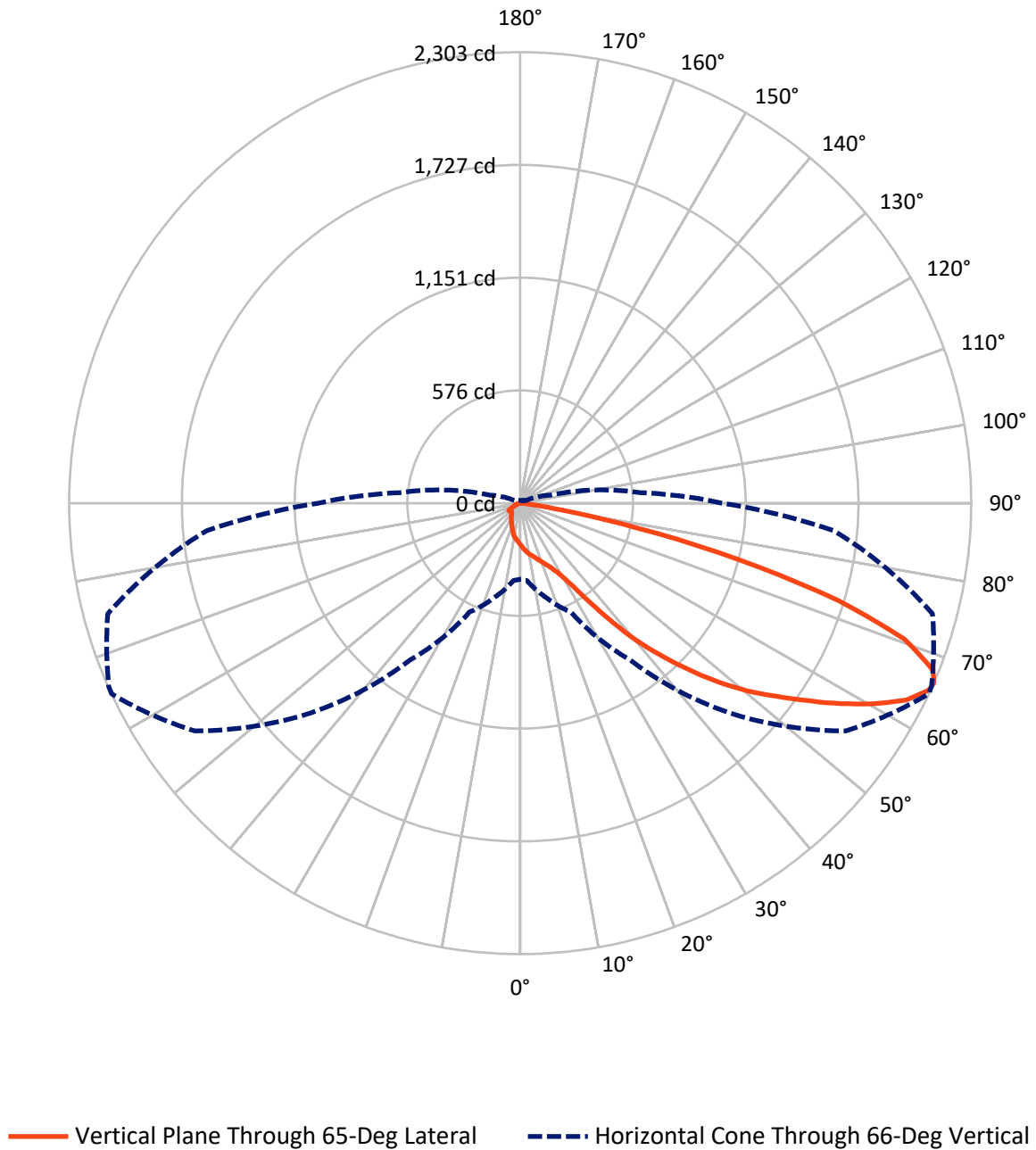
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Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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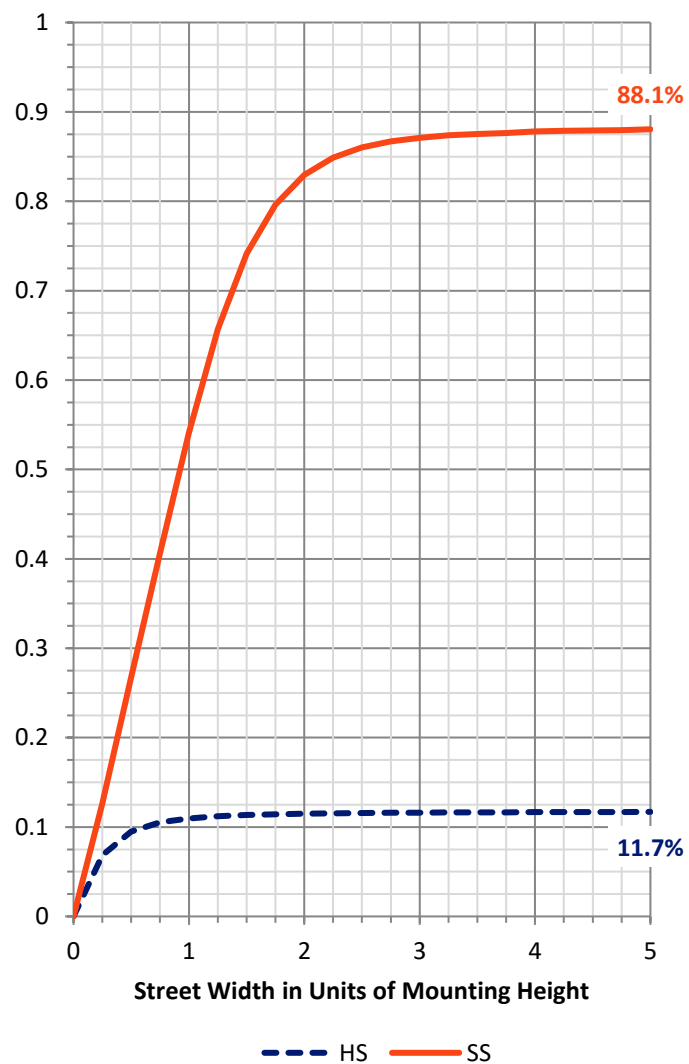
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	307.7	0.0	307.7
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	2299.3	0.0	2299.3
	% Fixture	88.2	0.0	88.2
Total	Lumens	2607.0	0.0	2607.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.1	0.8
10°-20°	59.6	2.3
20°-30°	109.1	4.2
30°-40°	221.7	8.5
40°-50°	468.1	18.0
50°-60°	719.7	27.6
60°-70°	724.4	27.8
70°-80°	270.7	10.4
80°-90°	13.5	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°	2607.0	100.0
0°-180°	2607.0	100.0

Coefficient of Utilization



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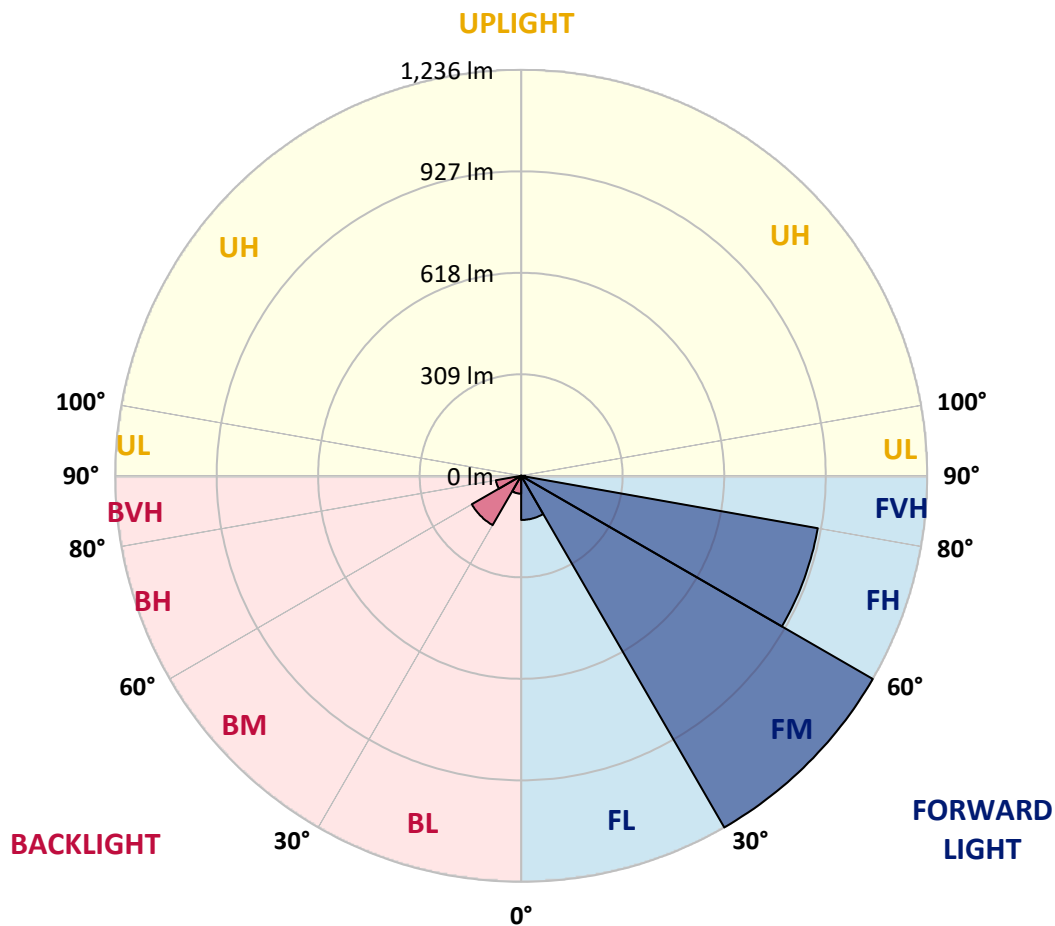
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	134.4	5.2			
FM	(30°-60°)	1236.1	47.4			
FH	(60°-80°)	916.9	35.2			G1/1800
FVH	(80°-90°)	11.9	0.5			G1/100
BL	(0°-30°)	54.5	2.1	B0/110		
BM	(30°-60°)	173.5	6.7	B0/220		
BH	(60°-80°)	78.2	3.0	B0/110		G0/110
BVH	(80°-90°)	1.6	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	212.4	212.4	212.4	212.4	212.4	212.4	212.4	212.4	212.4	212.4	212.4
2.5°	242.2	242.7	241.7	239.8	237.9	235.6	231.8	225.6	224.7	220.4	215.7
5°	258.8	259.7	258.3	257.8	256.9	253.6	248.3	239.4	238.4	229.9	219.0
7.5°	264.4	265.9	264.9	264.9	264.9	263.5	261.1	253.1	251.7	240.8	224.2
10°	268.7	269.6	269.2	271.1	272.5	271.5	270.1	265.4	264.0	253.1	231.3
12.5°	275.3	275.8	276.3	277.2	279.6	280.5	280.0	275.8	274.8	267.3	240.3
15°	281.5	281.5	281.9	286.2	289.5	291.4	291.9	288.6	287.6	281.5	251.7
17.5°	287.1	287.6	289.0	293.8	299.4	303.2	305.6	304.2	302.7	298.0	264.9
20°	295.7	296.6	298.0	304.6	310.3	316.5	321.2	320.7	320.3	316.9	280.5
22.5°	310.3	311.3	313.6	319.8	325.5	333.0	341.1	340.6	339.2	336.8	299.0
25°	332.6	332.6	334.0	339.2	346.3	355.3	362.8	364.2	362.8	361.4	322.1
27.5°	360.5	360.9	360.9	366.6	373.2	384.6	394.0	395.5	395.5	394.0	353.4
30°	399.2	397.8	396.9	401.6	408.7	425.3	441.8	444.7	443.2	445.6	397.4
32.5°	465.9	463.6	455.5	456.5	460.7	483.5	511.4	521.3	520.8	525.1	468.3
35°	558.2	553.5	541.6	531.7	531.2	555.8	598.4	635.8	635.3	650.0	576.2
37.5°	662.3	668.4	646.2	629.1	623.9	643.3	698.2	779.1	783.4	808.9	717.6
40°	801.3	805.1	776.7	752.6	728.0	735.1	807.5	933.3	940.9	969.3	859.0
42.5°	922.4	926.2	909.7	880.3	849.1	835.9	917.7	1073.3	1079.5	1118.8	1004.7
45°	1004.7	1007.6	1013.3	1016.1	980.6	953.2	1052.5	1217.1	1224.7	1270.1	1147.1
47.5°	1069.1	1071.4	1082.8	1111.2	1104.1	1082.3	1189.7	1366.6	1368.5	1419.1	1285.7
50°	1098.9	1104.6	1132.5	1176.0	1207.2	1213.4	1338.7	1508.1	1513.3	1561.5	1416.8
52.5°	1065.8	1067.7	1138.1	1220.0	1282.9	1345.3	1488.2	1639.1	1654.2	1690.2	1534.6
55°	954.1	967.8	1074.8	1218.6	1342.5	1470.7	1648.1	1780.5	1794.3	1817.0	1638.2
57.5°	824.5	839.7	969.7	1157.5	1368.0	1586.6	1796.2	1931.0	1940.4	1946.6	1733.2
60°	712.4	726.6	860.5	1040.7	1342.5	1668.4	1933.8	2080.5	2088.5	2071.9	1781.0
62.5°	574.7	588.9	723.8	886.0	1242.2	1685.0	2036.0	2213.4	2216.7	2171.7	1751.7
65°	433.3	442.8	555.4	694.4	1066.7	1597.0	2059.2	2296.2	2292.8	2200.6	1663.7
66°	388.4	396.4	495.8	614.0	975.4	1516.6	2027.9	2302.8	2299.5	2179.3	1606.0
67.5°	334.9	337.3	419.1	502.4	816.0	1345.8	1932.9	2272.5	2275.3	2120.7	1500.5
70°	261.6	261.1	308.4	349.6	557.2	957.4	1612.1	2081.9	2095.6	1899.3	1279.6
72.5°	167.5	161.8	189.2	213.8	324.5	555.8	1175.5	1696.8	1720.0	1492.0	953.2
75°	99.8	94.1	100.8	106.9	155.6	267.3	691.1	1154.7	1176.9	956.5	567.2
77.5°	74.7	72.4	72.8	67.6	69.1	100.3	315.5	610.2	626.3	391.7	215.2
80°	57.2	51.1	47.8	50.1	45.4	39.7	117.3	210.0	220.0	92.7	44.9
82.5°	38.3	33.1	30.7	33.6	28.9	22.2	28.4	40.7	39.7	25.1	17.5
85°	19.9	17.0	17.0	17.0	14.7	10.9	12.3	16.6	16.6	13.2	10.4
87.5°	5.7	5.2	6.1	5.7	4.3	4.3	4.7	5.7	5.7	5.2	4.7
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°	212.4	212.4	212.4	212.4	212.4	212.4	212.4	212.4	212.4	212.4	212.4
2.5°	211.9	210.0	204.8	201.0	197.3	193.9	190.2	189.2	187.3	187.8	186.9
5°	213.3	208.1	199.2	190.6	184.0	178.3	171.2	168.4	164.6	163.2	162.3
7.5°	215.2	207.7	194.4	182.6	171.2	159.9	148.5	141.9	137.7	135.8	134.3
10°	219.5	209.6	192.1	173.6	154.2	138.1	126.8	122.0	119.2	118.7	118.3
12.5°	225.2	212.4	189.7	162.3	136.7	121.6	114.5	113.1	112.6	112.6	112.1
15°	233.7	217.1	185.9	149.0	123.0	112.6	109.3	106.9	106.0	106.0	106.0
17.5°	242.2	222.8	180.2	135.3	113.5	106.9	103.6	102.2	101.2	101.7	101.2
20°	253.1	229.4	172.7	123.5	107.4	102.2	98.9	97.4	97.0	97.0	97.0
22.5°	265.4	237.0	163.2	114.5	102.2	97.4	94.1	92.7	91.8	92.2	92.2
25°	281.9	246.5	153.3	105.5	97.0	92.7	88.9	87.0	87.0	87.5	88.0
27.5°	303.2	257.8	143.3	99.8	92.2	88.0	83.7	81.8	82.3	83.3	83.3
30°	334.4	273.4	133.4	93.7	87.0	82.3	78.5	76.6	77.6	79.5	79.5
32.5°	378.9	299.0	124.9	86.6	79.5	74.3	70.5	69.1	71.4	75.2	75.2
35°	458.4	345.8	119.7	79.5	71.4	65.3	60.5	59.1	62.4	67.2	67.2
37.5°	564.8	421.0	121.6	73.3	64.8	57.7	52.5	50.6	53.0	57.2	58.7
40°	683.5	511.8	138.1	68.1	58.7	51.6	46.4	44.5	45.9	47.8	48.3
42.5°	802.3	608.3	169.4	64.3	53.9	46.4	41.6	40.2	41.2	41.6	42.1
45°	920.5	703.9	208.6	62.0	49.7	42.1	37.4	37.4	37.8	37.8	37.8
47.5°	1032.7	797.1	249.8	61.5	45.9	37.8	34.1	34.5	34.5	35.0	35.0
50°	1138.6	880.3	291.4	62.9	42.6	34.1	31.2	31.2	31.2	31.7	31.2
52.5°	1227.1	953.2	334.9	65.3	39.3	31.2	28.4	28.4	28.4	28.9	28.4
55°	1310.8	1019.4	379.4	68.6	36.4	28.9	26.0	25.1	25.1	25.5	25.1
57.5°	1378.9	1063.4	421.5	69.1	34.1	26.5	24.1	22.7	22.7	22.7	22.7
60°	1381.8	1037.9	433.8	60.5	31.2	24.1	21.8	19.9	20.3	20.3	20.3
62.5°	1291.4	903.5	348.6	45.4	27.9	21.8	19.9	18.0	18.0	18.0	18.0
65°	1114.0	702.9	204.4	36.0	24.1	19.4	17.5	16.1	16.1	16.1	15.6
66°	1030.8	616.4	156.6	32.6	22.7	18.9	17.0	15.6	15.1	14.7	14.7
67.5°	895.0	487.2	97.9	28.9	20.8	17.5	15.6	14.2	13.7	13.2	13.2
70°	674.1	309.4	47.8	22.2	18.0	15.1	13.7	12.3	11.8	11.4	10.9
72.5°	473.0	181.2	25.1	17.0	14.7	13.2	11.8	10.4	9.9	9.5	9.5
75°	267.3	87.5	16.6	12.3	11.8	10.9	9.9	8.5	8.0	8.0	8.0
77.5°	101.2	30.3	11.4	9.0	9.5	8.5	7.1	7.1	6.6	7.1	6.6
80°	26.5	13.2	7.1	6.6	7.1	6.1	5.2	5.7	5.7	5.7	5.7
82.5°	14.2	7.6	4.3	4.7	4.3	4.3	3.3	3.8	4.3	3.8	4.3
85°	9.9	3.8	2.4	2.4	1.9	1.9	1.4	1.9	2.4	1.9	1.9
87.5°	5.2	1.4	1.4	1.4	1.4	0.9	0.5	0.0	0.5	0.5	0.5
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)