

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: P1210010

Luminaire Tested: **ARCH1-50-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210010
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: ARCH1-50-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1470mA 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: 4528 lumens
Efficiency: N/A
Efficacy: 85.4 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

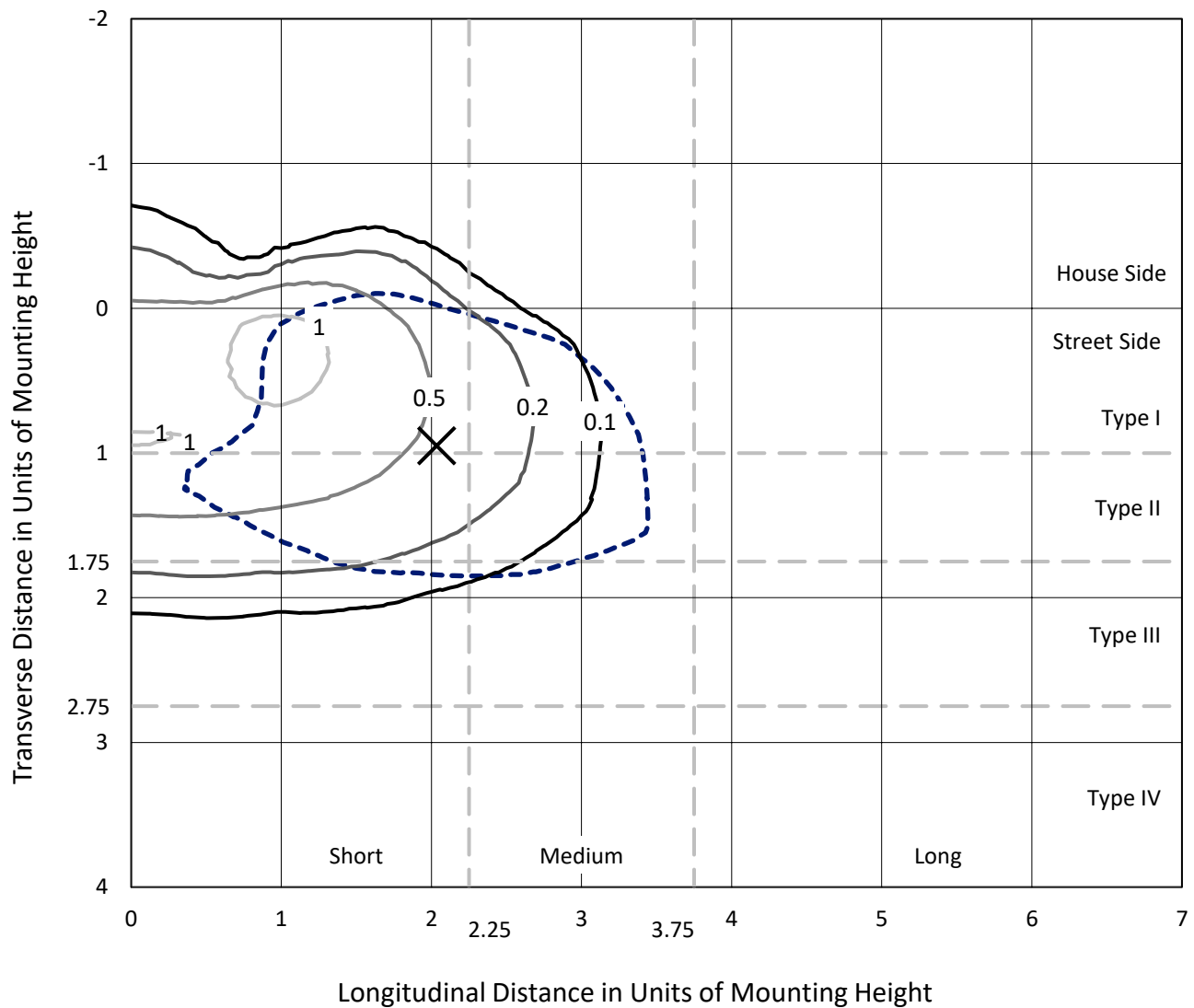
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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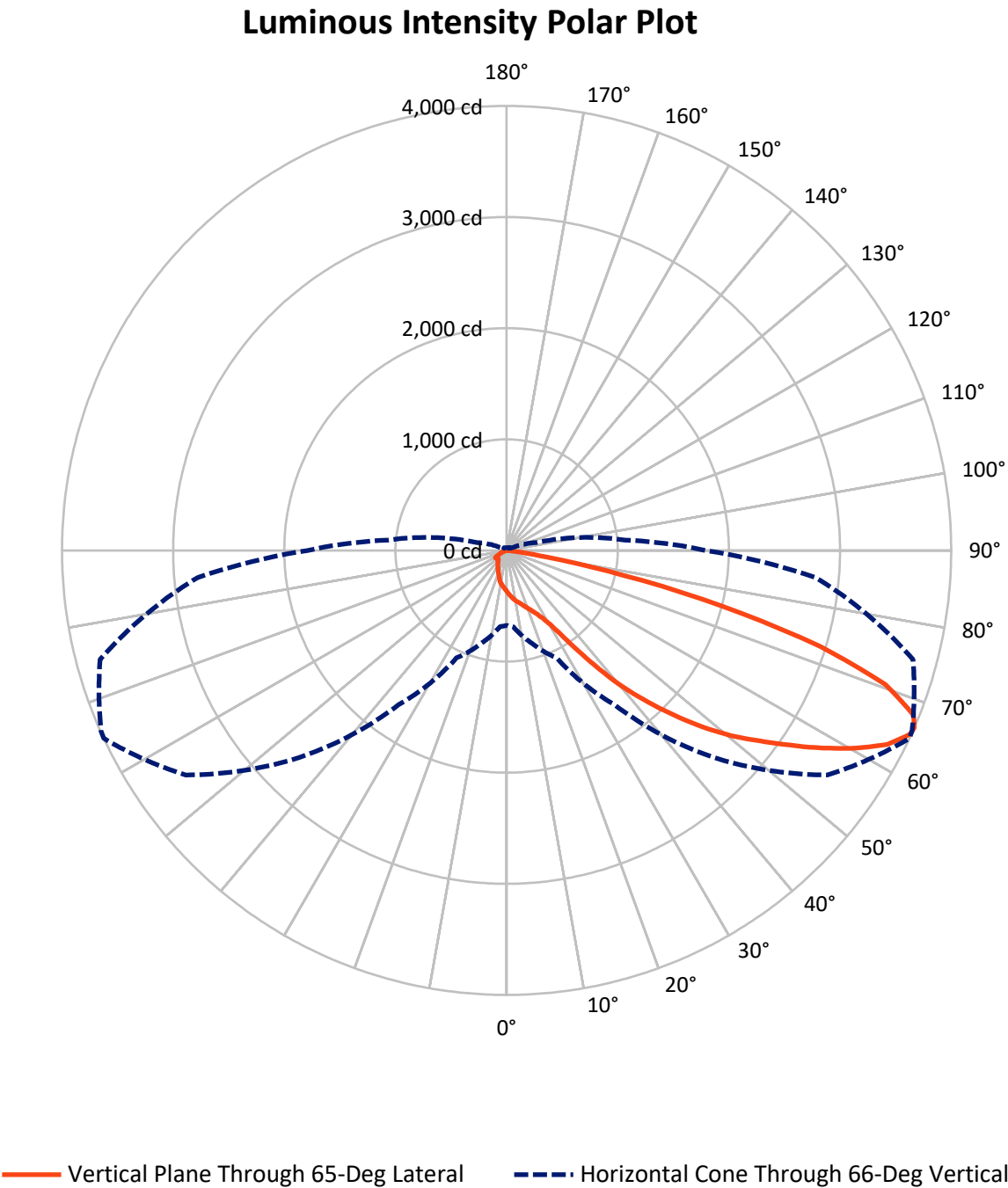
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
Type III - Short - N/A

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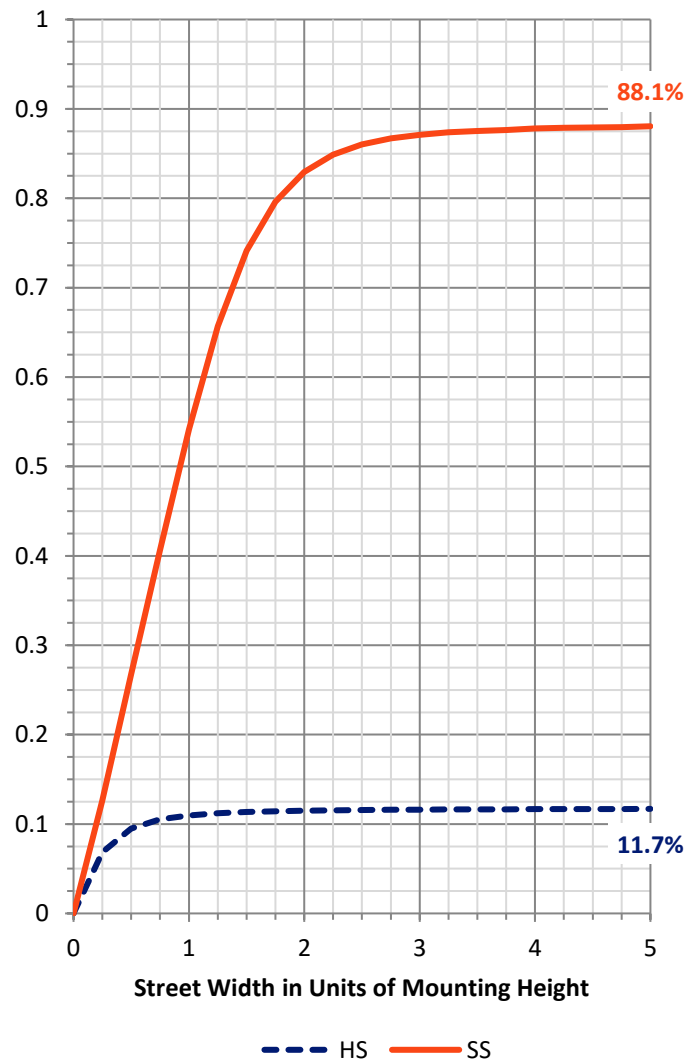
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	534.4	0.0	534.4
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	3993.6	0.0	3993.6
	% Fixture	88.2	0.0	88.2
Total	Lumens	4528.0	0.0	4528.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.0	0.8
10°-20°	103.5	2.3
20°-30°	189.5	4.2
30°-40°	385.0	8.5
40°-50°	813.1	18.0
50°-60°	1250.0	27.6
60°-70°	1258.2	27.8
70°-80°	470.1	10.4
80°-90°	23.5	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°	4528.0	100.0
0°-180°	4528.0	100.0

Coefficient of Utilization



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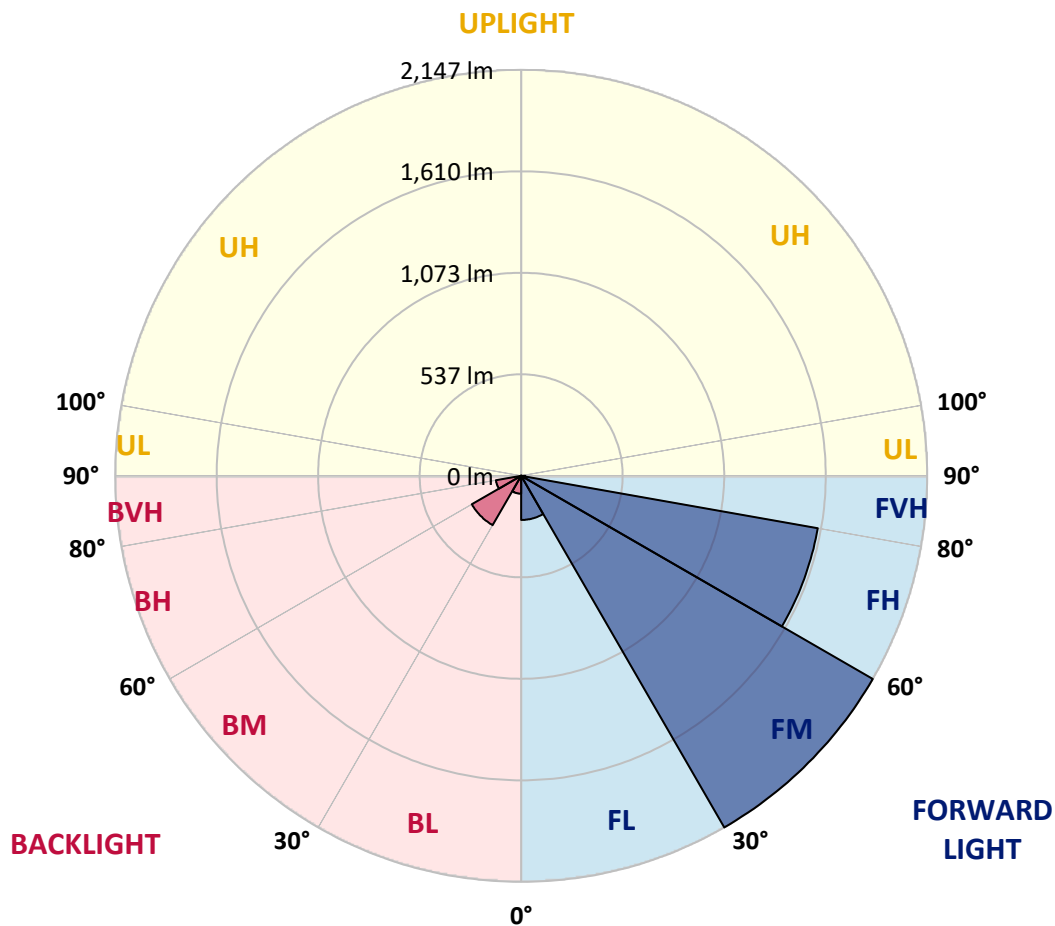
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	233.4	5.2			
FM	(30°-60°)	2146.9	47.4			
FH	(60°-80°)	1592.6	35.2			G1/1800
FVH	(80°-90°)	20.7	0.5			G1/100
BL	(0°-30°)	94.6	2.1	B0/110		
BM	(30°-60°)	301.3	6.7	B1/1000		
BH	(60°-80°)	135.8	3.0	B1/500		G1/500
BVH	(80°-90°)	2.8	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	368.9	368.9	368.9	368.9	368.9	368.9	368.9	368.9	368.9	368.9	368.9
2.5°	420.7	421.5	419.8	416.6	413.3	409.2	402.6	391.9	390.3	382.9	374.7
5°	449.4	451.1	448.6	447.8	446.1	440.4	431.3	415.7	414.1	399.3	380.4
7.5°	459.3	461.7	460.1	460.1	460.1	457.6	453.5	439.6	437.1	418.2	389.4
10°	466.7	468.3	467.5	470.8	473.2	471.6	469.1	460.9	458.5	439.6	401.8
12.5°	478.2	479.0	479.8	481.5	485.6	487.2	486.4	479.0	477.4	464.2	417.4
15°	488.9	488.9	489.7	497.1	502.8	506.1	506.9	501.2	499.5	488.9	437.1
17.5°	498.7	499.5	502.0	510.2	520.1	526.7	530.8	528.3	525.8	517.6	460.1
20°	513.5	515.2	517.6	529.1	539.0	549.7	557.9	557.1	556.2	550.5	487.2
22.5°	539.0	540.6	544.7	555.4	565.3	578.4	592.4	591.6	589.1	585.0	519.3
25°	577.6	577.6	580.1	589.1	601.4	617.0	630.2	632.6	630.2	627.7	559.5
27.5°	626.1	626.9	626.9	636.8	648.3	668.0	684.4	686.9	686.9	684.4	613.7
30°	693.4	691.0	689.3	697.6	709.9	738.6	767.4	772.3	769.9	774.0	690.2
32.5°	809.3	805.2	791.2	792.9	800.3	839.7	888.2	905.4	904.6	912.0	813.4
35°	969.5	961.3	940.7	923.5	922.7	965.4	1039.3	1104.2	1103.4	1128.9	1000.7
37.5°	1150.3	1160.9	1122.3	1092.7	1083.7	1117.4	1212.7	1353.2	1360.6	1405.0	1246.4
40°	1391.8	1398.4	1349.1	1307.2	1264.5	1276.8	1402.5	1621.0	1634.2	1683.5	1492.1
42.5°	1602.1	1608.7	1580.0	1529.0	1474.8	1451.8	1593.9	1864.2	1874.9	1943.1	1745.1
45°	1745.1	1750.0	1759.9	1764.8	1703.2	1655.6	1828.1	2114.0	2127.2	2206.0	1992.4
47.5°	1856.8	1861.0	1880.7	1930.0	1917.6	1879.9	2066.4	2373.6	2376.9	2464.8	2233.1
50°	1908.6	1918.5	1966.9	2042.5	2096.8	2107.4	2325.2	2619.3	2628.3	2712.1	2460.7
52.5°	1851.1	1854.4	1976.8	2118.9	2228.2	2336.7	2584.8	2846.9	2873.2	2935.6	2665.3
55°	1657.2	1681.0	1866.7	2116.5	2331.7	2554.4	2862.5	3092.6	3116.4	3155.8	2845.2
57.5°	1432.1	1458.4	1684.3	2010.5	2376.1	2755.7	3119.7	3353.8	3370.3	3380.9	3010.4
60°	1237.4	1262.0	1494.5	1807.6	2331.7	2897.8	3358.8	3613.5	3627.4	3598.7	3093.4
62.5°	998.3	1022.9	1257.1	1538.9	2157.6	2926.6	3536.2	3844.3	3850.1	3772.0	3042.4
65°	752.6	769.0	964.6	1206.1	1852.7	2773.8	3576.5	3988.1	3982.4	3822.1	2889.6
66°	674.5	688.5	861.1	1066.5	1694.2	2634.1	3522.3	3999.6	3993.9	3785.2	2789.4
67.5°	581.7	585.8	727.9	872.6	1417.3	2337.5	3357.1	3947.0	3952.0	3683.3	2606.2
70°	454.4	453.5	535.7	607.2	967.9	1662.9	2800.1	3615.9	3639.7	3298.8	2222.5
72.5°	290.9	281.0	328.6	371.4	563.6	965.4	2041.7	2947.1	2987.4	2591.4	1655.6
75°	173.4	163.5	175.0	185.7	270.3	464.2	1200.4	2005.6	2044.2	1661.3	985.1
77.5°	129.8	125.7	126.5	117.5	120.0	174.2	548.0	1059.9	1087.8	680.3	373.8
80°	99.4	88.7	83.0	87.1	78.9	69.0	203.8	364.8	382.1	161.0	78.1
82.5°	66.6	57.5	53.4	58.3	50.1	38.6	49.3	70.7	69.0	43.5	30.4
85°	34.5	29.6	29.6	29.6	25.5	18.9	21.4	28.8	28.8	23.0	18.1
87.5°	9.9	9.0	10.7	9.9	7.4	7.4	8.2	9.9	9.9	9.0	8.2
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°	368.9	368.9	368.9	368.9	368.9	368.9	368.9	368.9	368.9	368.9	368.9
2.5°	368.1	364.8	355.8	349.2	342.6	336.9	330.3	328.6	325.4	326.2	324.5
5°	370.5	361.5	345.9	331.1	319.6	309.7	297.4	292.5	285.9	283.5	281.8
7.5°	373.8	360.7	337.7	317.1	297.4	277.7	258.0	246.5	239.1	235.8	233.3
10°	381.2	364.0	333.6	301.5	267.8	239.9	220.2	212.0	207.0	206.2	205.4
12.5°	391.1	368.9	329.5	281.8	237.4	211.2	198.8	196.4	195.5	195.5	194.7
15°	405.9	377.1	322.9	258.8	213.6	195.5	189.8	185.7	184.0	184.0	184.0
17.5°	420.7	387.0	313.0	235.0	197.2	185.7	179.9	177.5	175.8	176.6	175.8
20°	439.6	398.5	299.9	214.4	186.5	177.5	171.7	169.3	168.4	168.4	168.4
22.5°	460.9	411.6	283.5	198.8	177.5	169.3	163.5	161.0	159.4	160.2	160.2
25°	489.7	428.1	266.2	183.2	168.4	161.0	154.5	151.2	151.2	152.0	152.8
27.5°	526.7	447.8	248.9	173.4	160.2	152.8	145.4	142.1	143.0	144.6	144.6
30°	580.9	474.9	231.7	162.7	151.2	143.0	136.4	133.1	134.7	138.0	138.0
32.5°	658.1	519.3	216.9	150.4	138.0	129.0	122.4	120.0	124.1	130.6	130.6
35°	796.1	600.6	207.9	138.0	124.1	113.4	105.2	102.7	108.5	116.7	116.7
37.5°	981.0	731.2	211.2	127.4	112.6	100.2	91.2	87.9	92.0	99.4	101.9
40°	1187.2	889.0	239.9	118.3	101.9	89.6	80.5	77.2	79.7	83.0	83.8
42.5°	1393.5	1056.6	294.1	111.7	93.7	80.5	72.3	69.8	71.5	72.3	73.1
45°	1598.9	1222.6	362.3	107.6	86.3	73.1	64.9	64.9	65.7	65.7	65.7
47.5°	1793.6	1384.4	433.8	106.8	79.7	65.7	59.2	60.0	60.0	60.8	60.8
50°	1977.6	1529.0	506.1	109.3	73.9	59.2	54.2	54.2	54.2	55.0	54.2
52.5°	2131.3	1655.6	581.7	113.4	68.2	54.2	49.3	49.3	49.3	50.1	49.3
55°	2276.7	1770.6	658.9	119.1	63.3	50.1	45.2	43.5	43.5	44.4	43.5
57.5°	2395.0	1847.0	732.1	120.0	59.2	46.0	41.9	39.4	39.4	39.4	39.4
60°	2399.9	1802.6	753.4	105.2	54.2	41.9	37.8	34.5	35.3	35.3	35.3
62.5°	2243.0	1569.3	605.5	78.9	48.5	37.8	34.5	31.2	31.2	31.2	31.2
65°	1934.9	1220.9	354.9	62.4	41.9	33.7	30.4	27.9	27.9	27.9	27.1
66°	1790.3	1070.6	272.0	56.7	39.4	32.9	29.6	27.1	26.3	25.5	25.5
67.5°	1554.5	846.3	170.1	50.1	36.2	30.4	27.1	24.6	23.8	23.0	23.0
70°	1170.8	537.3	83.0	38.6	31.2	26.3	23.8	21.4	20.5	19.7	18.9
72.5°	821.6	314.7	43.5	29.6	25.5	23.0	20.5	18.1	17.3	16.4	16.4
75°	464.2	152.0	28.8	21.4	20.5	18.9	17.3	14.8	14.0	14.0	14.0
77.5°	175.8	52.6	19.7	15.6	16.4	14.8	12.3	12.3	11.5	12.3	11.5
80°	46.0	23.0	12.3	11.5	12.3	10.7	9.0	9.9	9.9	9.9	9.9
82.5°	24.6	13.1	7.4	8.2	7.4	7.4	5.8	6.6	7.4	6.6	7.4
85°	17.3	6.6	4.1	4.1	3.3	3.3	2.5	3.3	4.1	3.3	3.3
87.5°	9.0	2.5	2.5	2.5	2.5	1.6	0.8	0.0	0.8	0.8	0.8
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)