

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: P1209978

Luminaire Tested: **ARCH1-40-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1209978
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: ARCH1-40-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1220mA 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: 3891 lumens
Efficiency: N/A
Efficacy: 90.5 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): 43
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

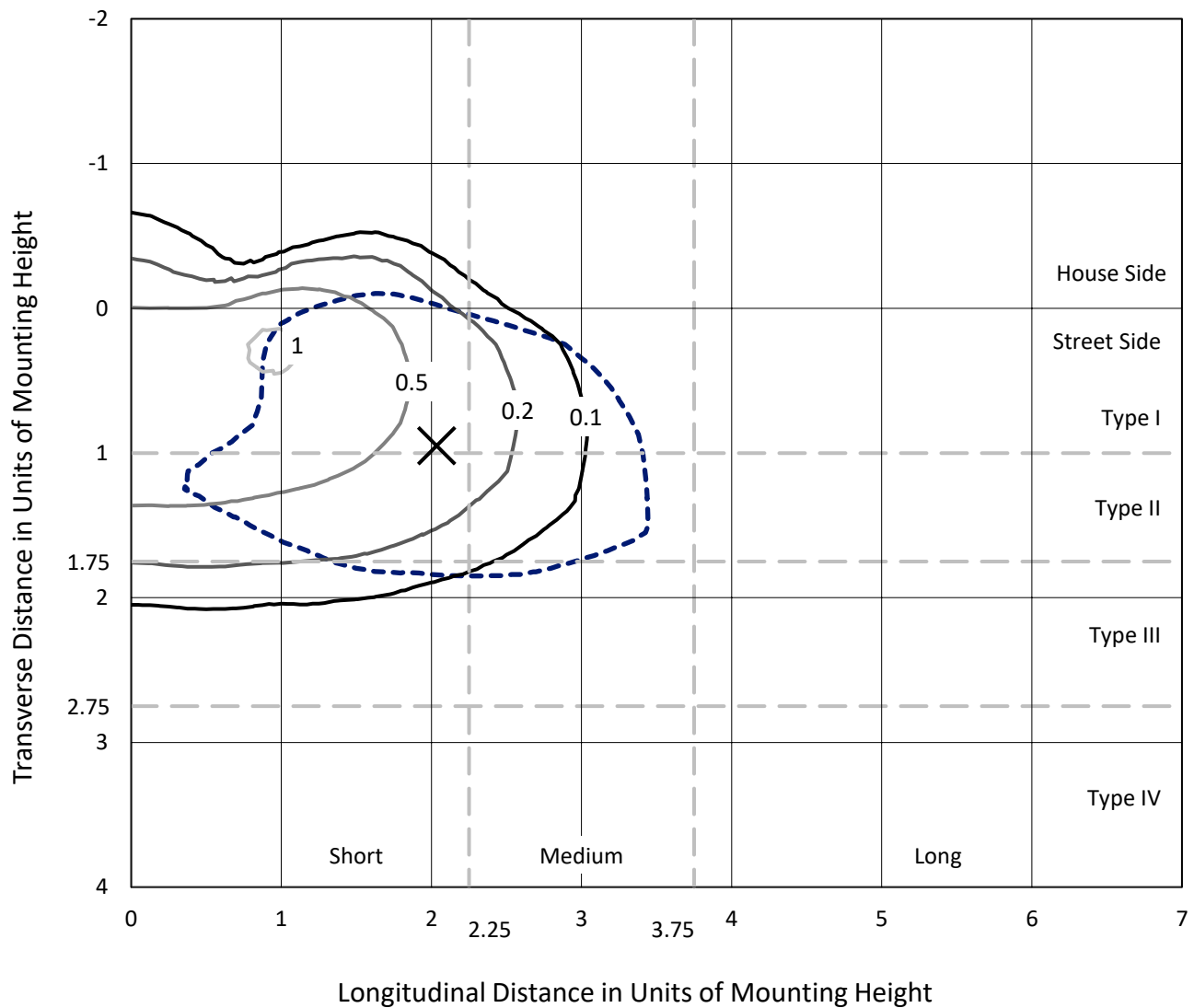


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Iso-Footcandle Lines of Horizontal Illumination

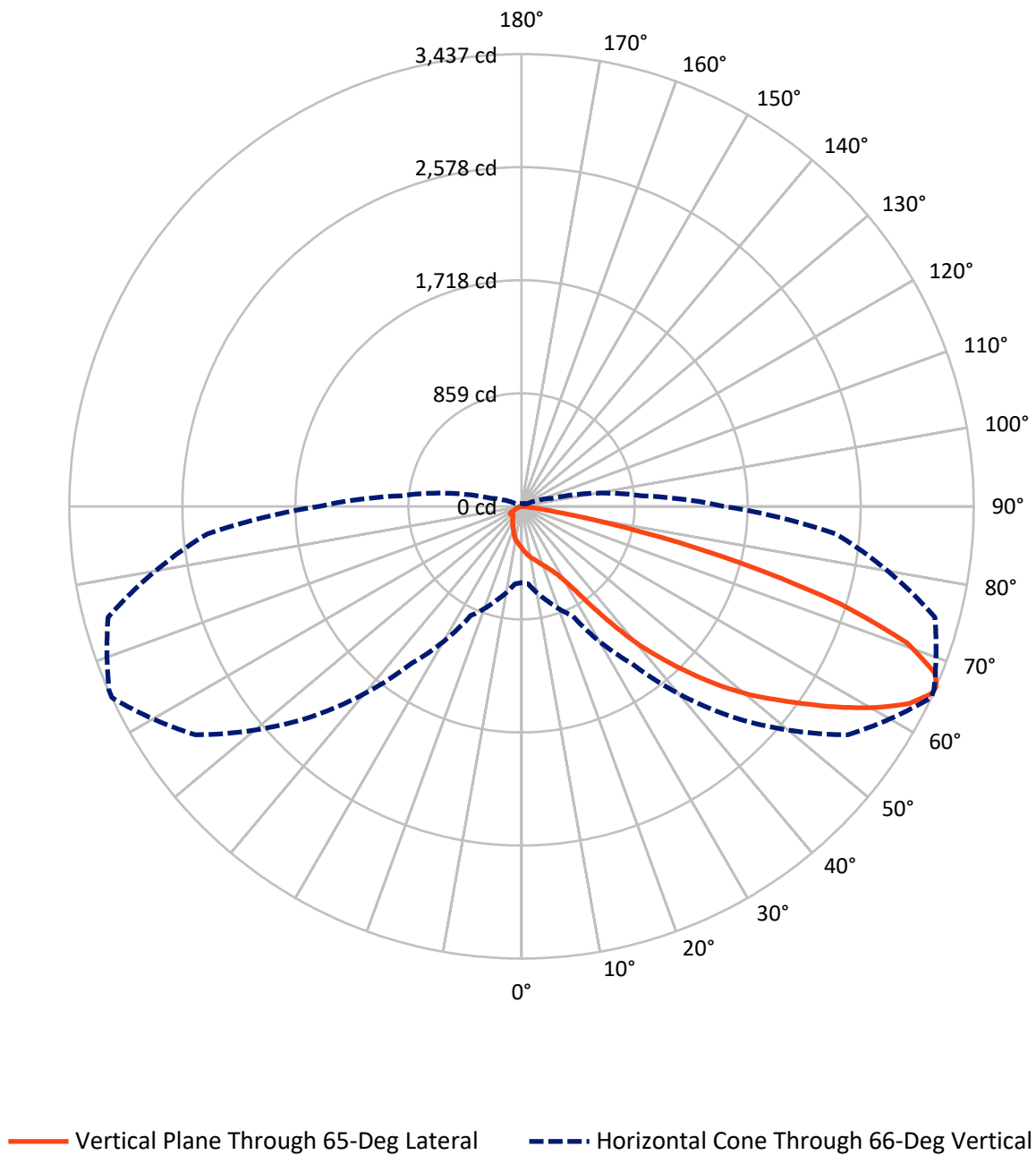
✕ Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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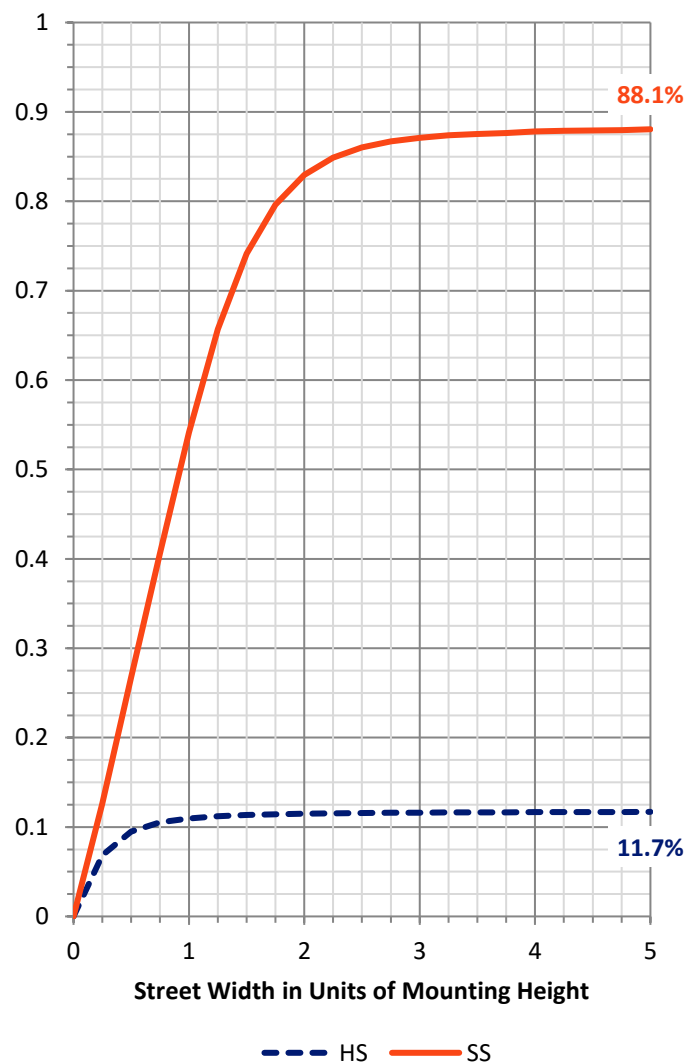
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	459.2	0.0	459.2
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	3431.8	0.0	3431.8
	% Fixture	88.2	0.0	88.2
Total	Lumens	3891.0	0.0	3891.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.1	0.8
10°-20°	89.0	2.3
20°-30°	162.8	4.2
30°-40°	330.9	8.5
40°-50°	698.7	18.0
50°-60°	1074.2	27.6
60°-70°	1081.2	27.8
70°-80°	404.0	10.4
80°-90°	20.2	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°	3891.0	100.0
0°-180°	3891.0	100.0

Coefficient of Utilization



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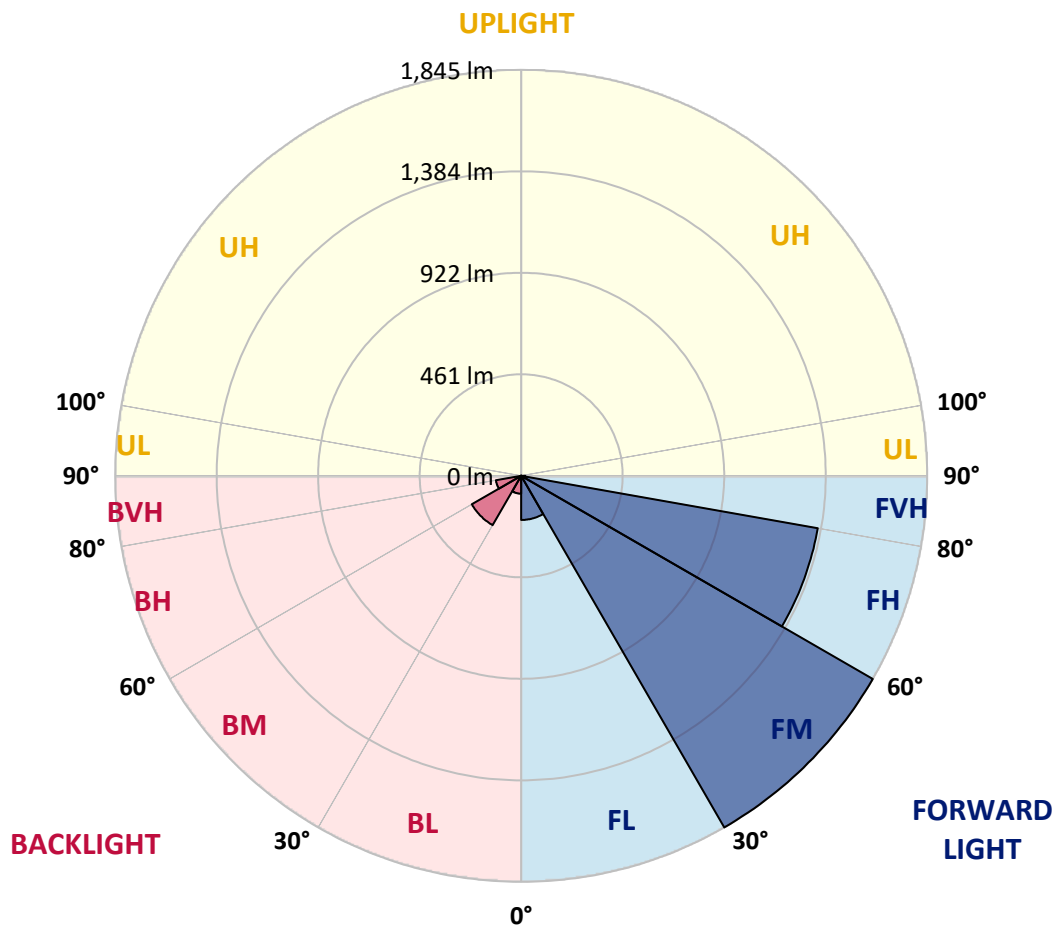
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	200.6	5.2			
FM	(30°-60°)	1844.8	47.4			
FH	(60°-80°)	1368.6	35.2			G1/1800
FVH	(80°-90°)	17.8	0.5			G1/100
BL	(0°-30°)	81.3	2.1	B0/110		
BM	(30°-60°)	258.9	6.7	B1/1000		
BH	(60°-80°)	116.7	3.0	B1/500		G1/500
BVH	(80°-90°)	2.4	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°	317.0	317.0	317.0	317.0	317.0	317.0	317.0	317.0	317.0	317.0	317.0
2.5°	361.5	362.2	360.8	358.0	355.1	351.6	346.0	336.8	335.4	329.0	321.9
5°	386.2	387.6	385.5	384.8	383.4	378.4	370.7	357.3	355.8	343.1	326.9
7.5°	394.7	396.8	395.4	395.4	395.4	393.3	389.7	377.7	375.6	359.4	334.7
10°	401.0	402.4	401.7	404.6	406.7	405.3	403.1	396.1	394.0	377.7	345.2
12.5°	410.9	411.6	412.3	413.7	417.3	418.7	418.0	411.6	410.2	398.9	358.7
15°	420.1	420.1	420.8	427.1	432.1	434.9	435.6	430.7	429.3	420.1	375.6
17.5°	428.6	429.3	431.4	438.4	446.9	452.6	456.1	454.0	451.9	444.8	395.4
20°	441.3	442.7	444.8	454.7	463.2	472.3	479.4	478.7	478.0	473.0	418.7
22.5°	463.2	464.6	468.1	477.3	485.7	497.0	509.0	508.3	506.2	502.7	446.2
25°	496.3	496.3	498.5	506.2	516.8	530.2	541.5	543.6	541.5	539.4	480.8
27.5°	538.0	538.7	538.7	547.2	557.1	574.0	588.1	590.2	590.2	588.1	527.4
30°	595.9	593.8	592.4	599.4	610.0	634.7	659.4	663.7	661.5	665.1	593.1
32.5°	695.4	691.9	679.9	681.3	687.7	721.6	763.2	778.0	777.3	783.7	699.0
35°	833.1	826.1	808.4	793.6	792.9	829.6	893.1	948.9	948.2	970.1	859.9
37.5°	988.4	997.6	964.4	939.0	931.3	960.2	1042.1	1162.8	1169.2	1207.3	1071.0
40°	1196.0	1201.7	1159.3	1123.3	1086.6	1097.2	1205.2	1393.0	1404.3	1446.7	1282.1
42.5°	1376.8	1382.4	1357.7	1313.9	1267.3	1247.6	1369.7	1602.0	1611.2	1669.8	1499.6
45°	1499.6	1503.8	1512.3	1516.6	1463.6	1422.6	1570.9	1816.6	1827.9	1895.7	1712.1
47.5°	1595.6	1599.2	1616.1	1658.5	1647.9	1615.4	1775.7	2039.7	2042.5	2118.1	1919.0
50°	1640.1	1648.6	1690.2	1755.2	1801.8	1811.0	1998.1	2250.8	2258.6	2330.6	2114.6
52.5°	1590.7	1593.5	1698.7	1820.8	1914.8	2007.9	2221.2	2446.4	2469.0	2522.6	2290.4
55°	1424.1	1444.5	1604.1	1818.7	2003.7	2195.0	2459.8	2657.5	2678.0	2711.9	2445.0
57.5°	1230.6	1253.2	1447.4	1727.7	2041.8	2368.0	2680.8	2882.0	2896.1	2905.3	2586.9
60°	1063.3	1084.5	1284.3	1553.3	2003.7	2490.2	2886.2	3105.1	3117.1	3092.4	2658.2
62.5°	857.8	879.0	1080.2	1322.4	1854.0	2514.9	3038.7	3303.5	3308.5	3241.4	2614.4
65°	646.7	660.8	828.9	1036.5	1592.1	2383.6	3073.3	3427.1	3422.1	3284.4	2483.1
66°	579.6	591.7	739.9	916.4	1455.8	2263.5	3026.7	3436.9	3432.0	3252.7	2397.0
67.5°	499.9	503.4	625.5	749.8	1217.9	2008.7	2884.8	3391.8	3396.0	3165.1	2239.5
70°	390.4	389.7	460.3	521.8	831.7	1429.0	2406.1	3107.2	3127.7	2834.7	1909.8
72.5°	249.9	241.5	282.4	319.1	484.3	829.6	1754.5	2532.5	2567.1	2226.8	1422.6
75°	149.0	140.5	150.4	159.6	232.3	398.9	1031.5	1723.4	1756.6	1427.6	846.5
77.5°	111.6	108.0	108.7	101.0	103.1	149.7	470.9	910.8	934.8	584.6	321.2
80°	85.4	76.3	71.3	74.8	67.8	59.3	175.1	313.5	328.3	138.4	67.1
82.5°	57.2	49.4	45.9	50.1	43.1	33.2	42.4	60.7	59.3	37.4	26.1
85°	29.7	25.4	25.4	25.4	21.9	16.2	18.4	24.7	24.7	19.8	15.5
87.5°	8.5	7.8	9.2	8.5	6.4	6.4	7.1	8.5	8.5	7.8	7.1
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°	317.0	317.0	317.0	317.0	317.0	317.0	317.0	317.0	317.0	317.0	317.0
2.5°	316.3	313.5	305.7	300.1	294.4	289.5	283.8	282.4	279.6	280.3	278.9
5°	318.4	310.7	297.2	284.5	274.6	266.2	255.6	251.3	245.7	243.6	242.2
7.5°	321.2	309.9	290.2	272.5	255.6	238.6	221.7	211.8	205.5	202.6	200.5
10°	327.6	312.8	286.6	259.1	230.2	206.2	189.2	182.2	177.9	177.2	176.5
12.5°	336.1	317.0	283.1	242.2	204.0	181.4	170.9	168.7	168.0	168.0	167.3
15°	348.8	324.1	277.5	222.4	183.6	168.0	163.1	159.6	158.2	158.2	158.2
17.5°	361.5	332.5	269.0	201.9	169.4	159.6	154.6	152.5	151.1	151.8	151.1
20°	377.7	342.4	257.7	184.3	160.3	152.5	147.6	145.4	144.7	144.7	144.7
22.5°	396.1	353.7	243.6	170.9	152.5	145.4	140.5	138.4	137.0	137.7	137.7
25°	420.8	367.8	228.8	157.4	144.7	138.4	132.7	129.9	129.9	130.6	131.3
27.5°	452.6	384.8	213.9	149.0	137.7	131.3	125.0	122.1	122.8	124.3	124.3
30°	499.2	408.1	199.1	139.8	129.9	122.8	117.2	114.4	115.8	118.6	118.6
32.5°	565.5	446.2	186.4	129.2	118.6	110.8	105.2	103.1	106.6	112.3	112.3
35°	684.1	516.1	178.6	118.6	106.6	97.4	90.4	88.3	93.2	100.3	100.3
37.5°	843.0	628.4	181.4	109.4	96.7	86.1	78.4	75.5	79.1	85.4	87.5
40°	1020.2	763.9	206.2	101.7	87.5	77.0	69.2	66.4	68.5	71.3	72.0
42.5°	1197.4	908.0	252.8	96.0	80.5	69.2	62.1	60.0	61.4	62.1	62.8
45°	1373.9	1050.6	311.4	92.5	74.1	62.8	55.8	55.8	56.5	56.5	56.5
47.5°	1541.3	1189.7	372.8	91.8	68.5	56.5	50.8	51.5	51.5	52.2	52.2
50°	1699.4	1313.9	434.9	93.9	63.5	50.8	46.6	46.6	46.6	47.3	46.6
52.5°	1831.4	1422.6	499.9	97.4	58.6	46.6	42.4	42.4	42.4	43.1	42.4
55°	1956.4	1521.5	566.2	102.4	54.4	43.1	38.8	37.4	37.4	38.1	37.4
57.5°	2058.1	1587.2	629.1	103.1	50.8	39.5	36.0	33.9	33.9	33.9	33.9
60°	2062.3	1549.0	647.4	90.4	46.6	36.0	32.5	29.7	30.4	30.4	30.4
62.5°	1927.5	1348.5	520.3	67.8	41.7	32.5	29.7	26.8	26.8	26.8	26.8
65°	1662.7	1049.2	305.0	53.7	36.0	28.9	26.1	24.0	24.0	24.0	23.3
66°	1538.4	920.0	233.7	48.7	33.9	28.2	25.4	23.3	22.6	21.9	21.9
67.5°	1335.8	727.2	146.1	43.1	31.1	26.1	23.3	21.2	20.5	19.8	19.8
70°	1006.1	461.7	71.3	33.2	26.8	22.6	20.5	18.4	17.7	16.9	16.2
72.5°	706.0	270.4	37.4	25.4	21.9	19.8	17.7	15.5	14.8	14.1	14.1
75°	398.9	130.6	24.7	18.4	17.7	16.2	14.8	12.7	12.0	12.0	12.0
77.5°	151.1	45.2	16.9	13.4	14.1	12.7	10.6	10.6	9.9	10.6	9.9
80°	39.5	19.8	10.6	9.9	10.6	9.2	7.8	8.5	8.5	8.5	8.5
82.5°	21.2	11.3	6.4	7.1	6.4	6.4	4.9	5.6	6.4	5.6	6.4
85°	14.8	5.6	3.5	3.5	2.8	2.8	2.1	2.8	3.5	2.8	2.8
87.5°	7.8	2.1	2.1	2.1	2.1	1.4	0.7	0.0	0.7	0.7	0.7
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)