

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: P1210006

Luminaire Tested: **ARCH1-50-722-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210006
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: ARCH1-50-722-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 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: 4105 lumens
Efficiency: N/A
Efficacy: 77.5 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): 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



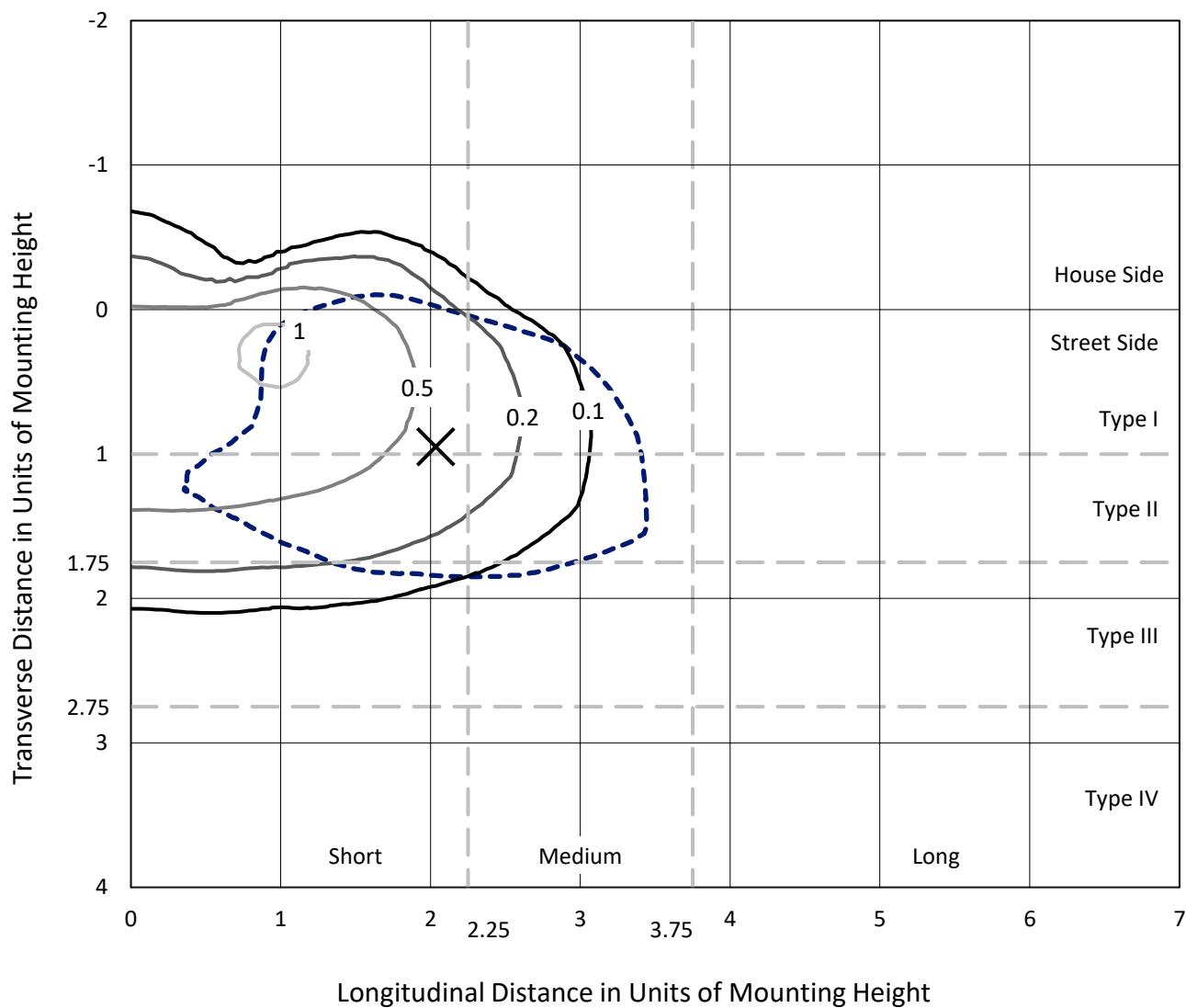
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

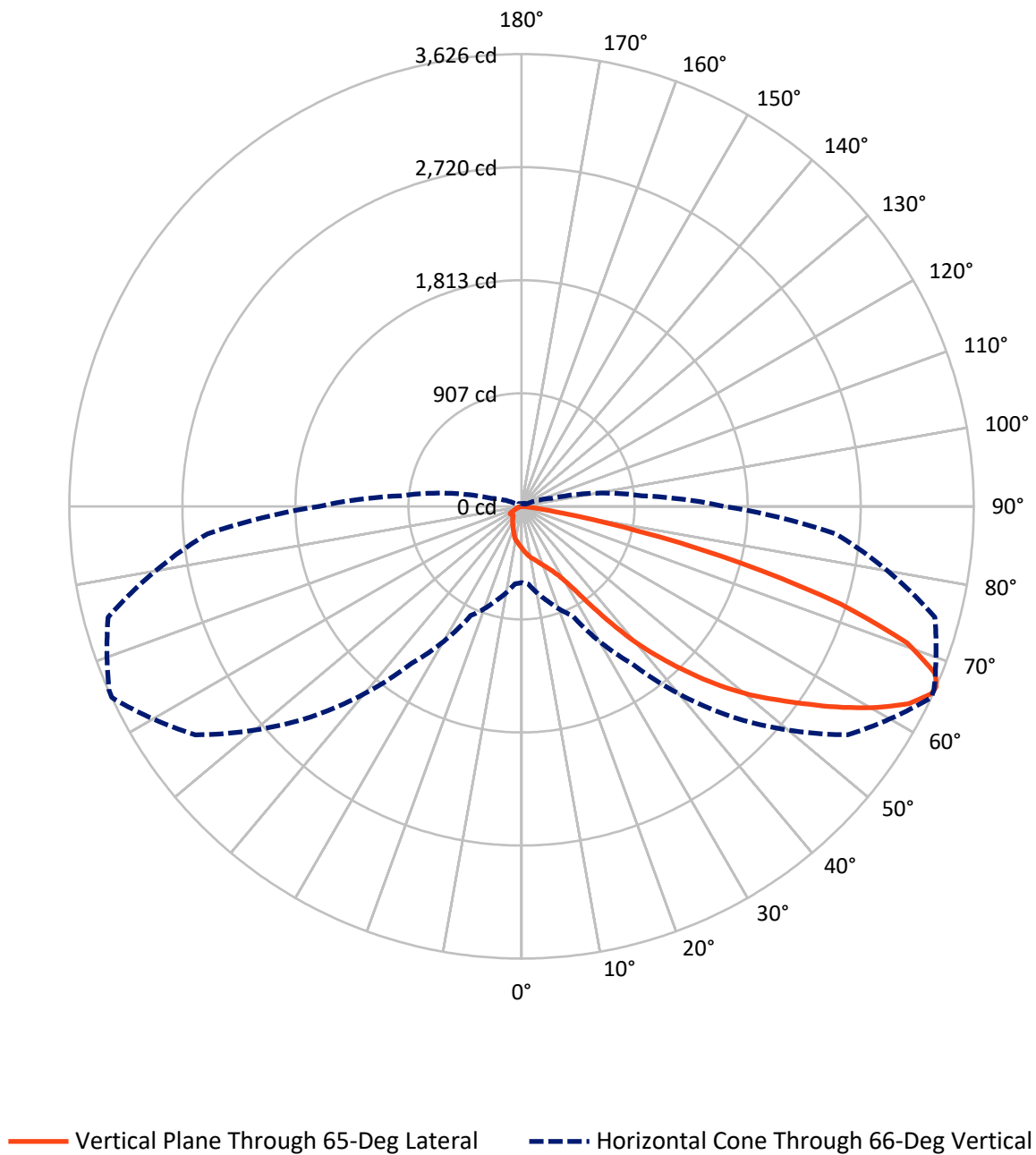
--- 1/2 Max cd



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

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Luminous Intensity Polar Plot



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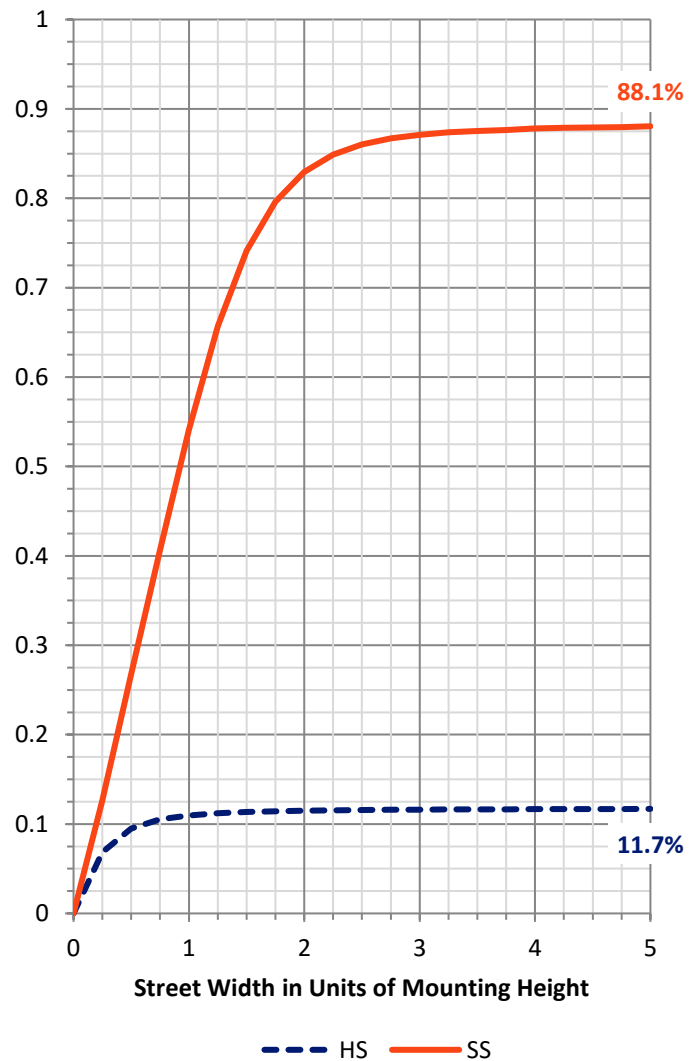
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	484.5	0.0	484.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	3620.5	0.0	3620.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	4105.0	0.0	4105.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.7	0.8
10°-20°	93.9	2.3
20°-30°	171.8	4.2
30°-40°	349.1	8.5
40°-50°	737.1	18.0
50°-60°	1133.2	27.6
60°-70°	1140.7	27.8
70°-80°	426.2	10.4
80°-90°	21.3	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°	4105.0	100.0
0°-180°	4105.0	100.0

Coefficient of Utilization



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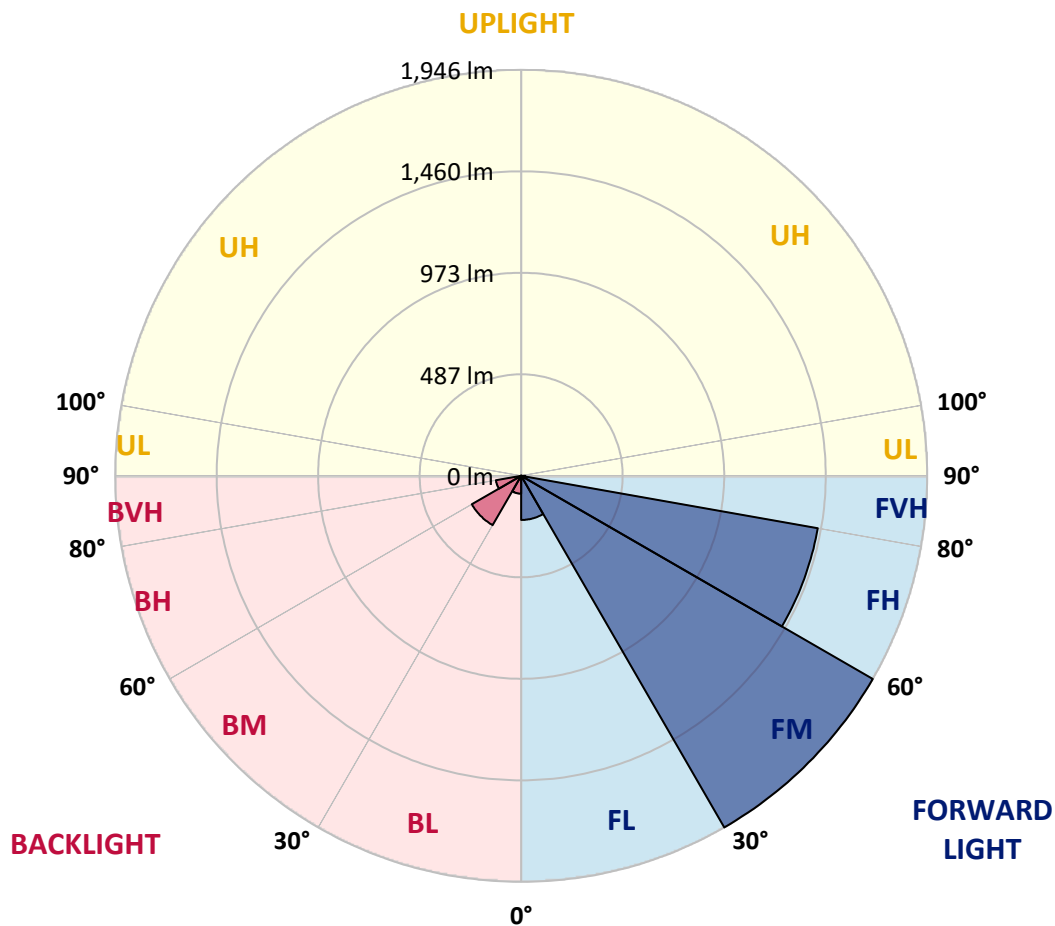
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	211.6	5.2			
FM	(30°-60°)	1946.3	47.4			
FH	(60°-80°)	1443.8	35.2			G1/1800
FVH	(80°-90°)	18.8	0.5			G1/100
BL	(0°-30°)	85.7	2.1	B0/110		
BM	(30°-60°)	273.2	6.7	B1/1000		
BH	(60°-80°)	123.1	3.0	B1/500		G1/500
BVH	(80°-90°)	2.5	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°	334.4	334.4	334.4	334.4	334.4	334.4	334.4	334.4	334.4	334.4	334.4
2.5°	381.4	382.1	380.6	377.6	374.7	370.9	365.0	355.3	353.8	347.1	339.7
5°	407.4	408.9	406.7	405.9	404.5	399.2	391.1	376.9	375.4	362.0	344.9
7.5°	416.4	418.6	417.1	417.1	417.1	414.9	411.2	398.5	396.3	379.1	353.1
10°	423.1	424.6	423.8	426.8	429.0	427.5	425.3	417.9	415.6	398.5	364.2
12.5°	433.5	434.3	435.0	436.5	440.2	441.7	441.0	434.3	432.8	420.8	378.4
15°	443.2	443.2	443.9	450.6	455.9	458.8	459.6	454.4	452.9	443.2	396.3
17.5°	452.1	452.9	455.1	462.6	471.5	477.5	481.2	478.9	476.7	469.3	417.1
20°	465.5	467.0	469.3	479.7	488.6	498.3	505.8	505.0	504.3	499.1	441.7
22.5°	488.6	490.1	493.8	503.5	512.5	524.4	537.0	536.3	534.1	530.3	470.8
25°	523.6	523.6	525.9	534.1	545.2	559.4	571.3	573.5	571.3	569.1	507.2
27.5°	567.6	568.3	568.3	577.3	587.7	605.6	620.5	622.7	622.7	620.5	556.4
30°	628.7	626.4	624.9	632.4	643.6	669.6	695.7	700.2	697.9	701.7	625.7
32.5°	733.7	730.0	717.3	718.8	725.5	761.2	805.2	820.8	820.1	826.8	737.4
35°	878.9	871.5	852.9	837.2	836.5	875.2	942.2	1001.1	1000.3	1023.4	907.2
37.5°	1042.8	1052.5	1017.5	990.7	982.5	1013.0	1099.4	1226.8	1233.5	1273.7	1130.0
40°	1261.8	1267.8	1223.1	1185.1	1146.3	1157.5	1271.5	1469.6	1481.5	1526.2	1352.7
42.5°	1452.5	1458.4	1432.4	1386.2	1337.0	1316.2	1445.0	1690.1	1699.8	1761.6	1582.1
45°	1582.1	1586.6	1595.5	1600.0	1544.1	1500.9	1657.3	1916.5	1928.4	1999.9	1806.3
47.5°	1683.4	1687.1	1705.0	1749.7	1738.5	1704.2	1873.3	2151.9	2154.9	2234.6	2024.5
50°	1730.3	1739.2	1783.2	1851.7	1900.9	1910.6	2108.0	2374.6	2382.8	2458.8	2230.9
52.5°	1678.2	1681.1	1792.1	1921.0	2020.1	2118.4	2343.3	2580.9	2604.8	2661.4	2416.3
55°	1502.4	1524.0	1692.3	1918.8	2113.9	2315.8	2595.1	2803.7	2825.3	2861.0	2579.4
57.5°	1298.3	1322.1	1527.0	1822.7	2154.1	2498.3	2828.2	3040.5	3055.4	3065.1	2729.2
60°	1121.8	1144.1	1354.9	1638.7	2113.9	2627.1	3045.0	3275.9	3288.6	3262.5	2804.4
62.5°	905.0	927.4	1139.6	1395.1	1956.0	2653.2	3205.9	3485.2	3490.4	3419.7	2758.2
65°	682.3	697.2	874.5	1093.5	1679.7	2514.6	3242.4	3615.5	3610.3	3465.1	2619.7
66°	611.5	624.2	780.6	966.8	1535.9	2388.0	3193.2	3626.0	3620.8	3431.6	2528.8
67.5°	527.4	531.1	659.9	791.0	1284.9	2119.1	3043.5	3578.3	3582.8	3339.2	2362.7
70°	411.9	411.2	485.6	550.5	877.4	1507.6	2538.5	3278.1	3299.7	2990.6	2014.8
72.5°	263.7	254.7	297.9	336.7	511.0	875.2	1851.0	2671.8	2708.3	2349.3	1500.9
75°	157.2	148.2	158.7	168.3	245.1	420.8	1088.2	1818.2	1853.2	1506.1	893.1
77.5°	117.7	114.0	114.7	106.5	108.7	157.9	496.8	960.9	986.2	616.7	338.9
80°	90.1	80.4	75.2	79.0	71.5	62.6	184.7	330.7	346.4	146.0	70.8
82.5°	60.3	52.1	48.4	52.9	45.4	35.0	44.7	64.1	62.6	39.5	27.6
85°	31.3	26.8	26.8	26.8	23.1	17.1	19.4	26.1	26.1	20.9	16.4
87.5°	8.9	8.2	9.7	8.9	6.7	6.7	7.4	8.9	8.9	8.2	7.4
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°	334.4	334.4	334.4	334.4	334.4	334.4	334.4	334.4	334.4	334.4	334.4
2.5°	333.7	330.7	322.5	316.6	310.6	305.4	299.4	297.9	295.0	295.7	294.2
5°	335.9	327.7	313.6	300.2	289.8	280.8	269.6	265.2	259.2	257.0	255.5
7.5°	338.9	327.0	306.1	287.5	269.6	251.8	233.9	223.5	216.8	213.8	211.5
10°	345.6	330.0	302.4	273.4	242.8	217.5	199.6	192.2	187.7	187.0	186.2
12.5°	354.6	334.4	298.7	255.5	215.3	191.4	180.3	178.0	177.3	177.3	176.5
15°	368.0	341.9	292.7	234.6	193.7	177.3	172.1	168.3	166.8	166.8	166.8
17.5°	381.4	350.8	283.8	213.0	178.8	168.3	163.1	160.9	159.4	160.1	159.4
20°	398.5	361.3	271.9	194.4	169.1	160.9	155.7	153.4	152.7	152.7	152.7
22.5°	417.9	373.2	257.0	180.3	160.9	153.4	148.2	146.0	144.5	145.2	145.2
25°	443.9	388.1	241.3	166.1	152.7	146.0	140.0	137.1	137.1	137.8	138.5
27.5°	477.5	405.9	225.7	157.2	145.2	138.5	131.8	128.9	129.6	131.1	131.1
30°	526.6	430.5	210.1	147.5	137.1	129.6	123.6	120.7	122.2	125.1	125.1
32.5°	596.6	470.8	196.6	136.3	125.1	116.9	111.0	108.7	112.5	118.4	118.4
35°	721.8	544.5	188.4	125.1	112.5	102.8	95.3	93.1	98.3	105.8	105.8
37.5°	889.4	662.9	191.4	115.5	102.0	90.9	82.7	79.7	83.4	90.1	92.4
40°	1076.3	805.9	217.5	107.3	92.4	81.2	73.0	70.0	72.3	75.2	76.0
42.5°	1263.3	957.9	266.7	101.3	84.9	73.0	65.5	63.3	64.8	65.5	66.3
45°	1449.5	1108.4	328.5	97.6	78.2	66.3	58.8	58.8	59.6	59.6	59.6
47.5°	1626.0	1255.1	393.3	96.8	72.3	59.6	53.6	54.4	54.4	55.1	55.1
50°	1792.9	1386.2	458.8	99.1	67.0	53.6	49.2	49.2	49.2	49.9	49.2
52.5°	1932.2	1500.9	527.4	102.8	61.8	49.2	44.7	44.7	44.7	45.4	44.7
55°	2064.0	1605.2	597.4	108.0	57.4	45.4	41.0	39.5	39.5	40.2	39.5
57.5°	2171.3	1674.4	663.7	108.7	53.6	41.7	38.0	35.8	35.8	35.8	35.8
60°	2175.7	1634.2	683.0	95.3	49.2	38.0	34.3	31.3	32.0	32.0	32.0
62.5°	2033.5	1422.7	549.0	71.5	43.9	34.3	31.3	28.3	28.3	28.3	28.3
65°	1754.1	1106.9	321.8	56.6	38.0	30.5	27.6	25.3	25.3	25.3	24.6
66°	1623.0	970.6	246.5	51.4	35.8	29.8	26.8	24.6	23.8	23.1	23.1
67.5°	1409.3	767.2	154.2	45.4	32.8	27.6	24.6	22.3	21.6	20.9	20.9
70°	1061.4	487.1	75.2	35.0	28.3	23.8	21.6	19.4	18.6	17.9	17.1
72.5°	744.9	285.3	39.5	26.8	23.1	20.9	18.6	16.4	15.6	14.9	14.9
75°	420.8	137.8	26.1	19.4	18.6	17.1	15.6	13.4	12.7	12.7	12.7
77.5°	159.4	47.7	17.9	14.2	14.9	13.4	11.2	11.2	10.4	11.2	10.4
80°	41.7	20.9	11.2	10.4	11.2	9.7	8.2	8.9	8.9	8.9	8.9
82.5°	22.3	11.9	6.7	7.4	6.7	6.7	5.2	6.0	6.7	6.0	6.7
85°	15.6	6.0	3.7	3.7	3.0	3.0	2.2	3.0	3.7	3.0	3.0
87.5°	8.2	2.2	2.2	2.2	2.2	1.5	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)