

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: P836310

Luminaire Tested: **ARCH3-170-722-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-170-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1310mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13927 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 170.6
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



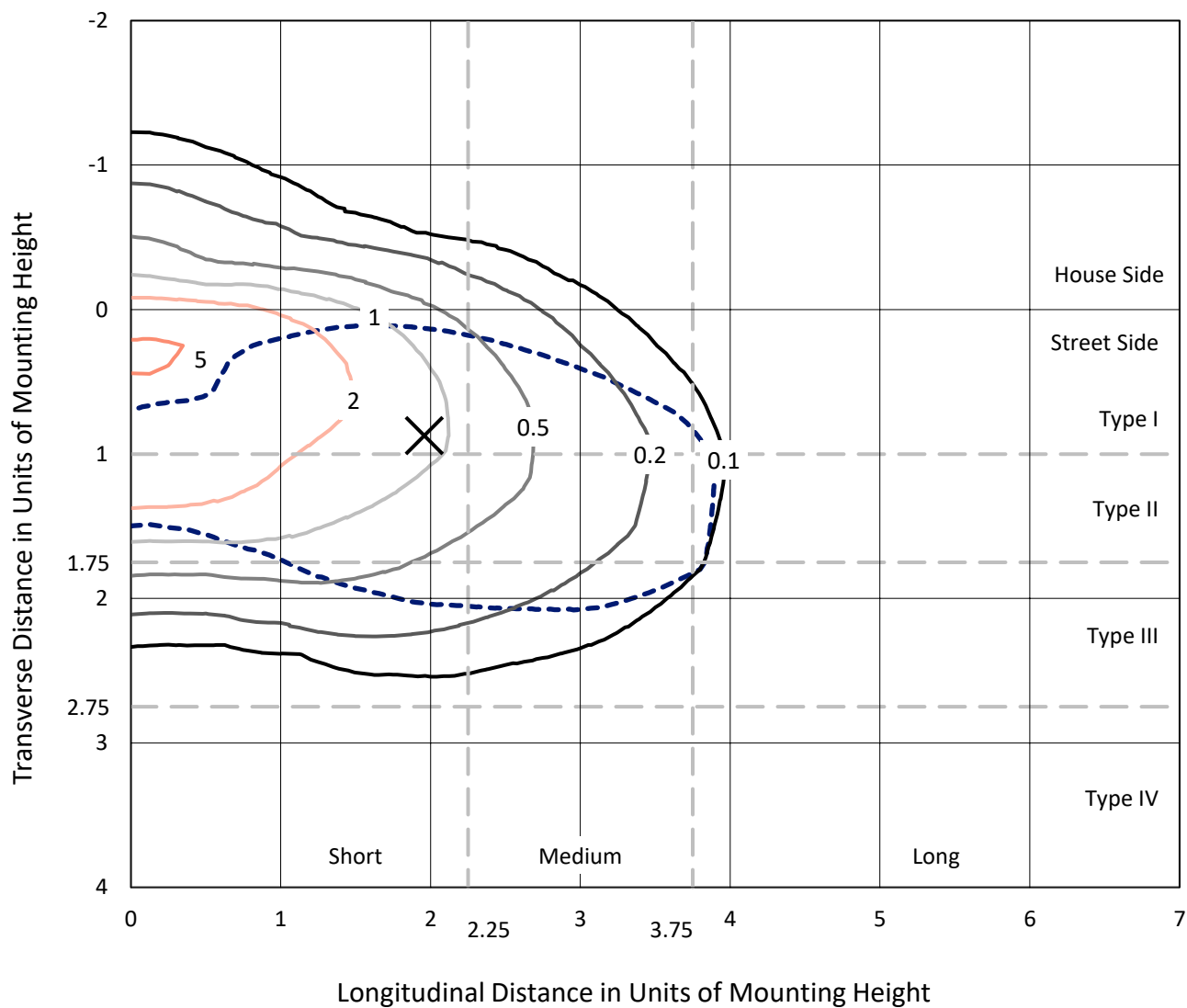
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Iso-Footcandle Lines of Horizontal Illumination

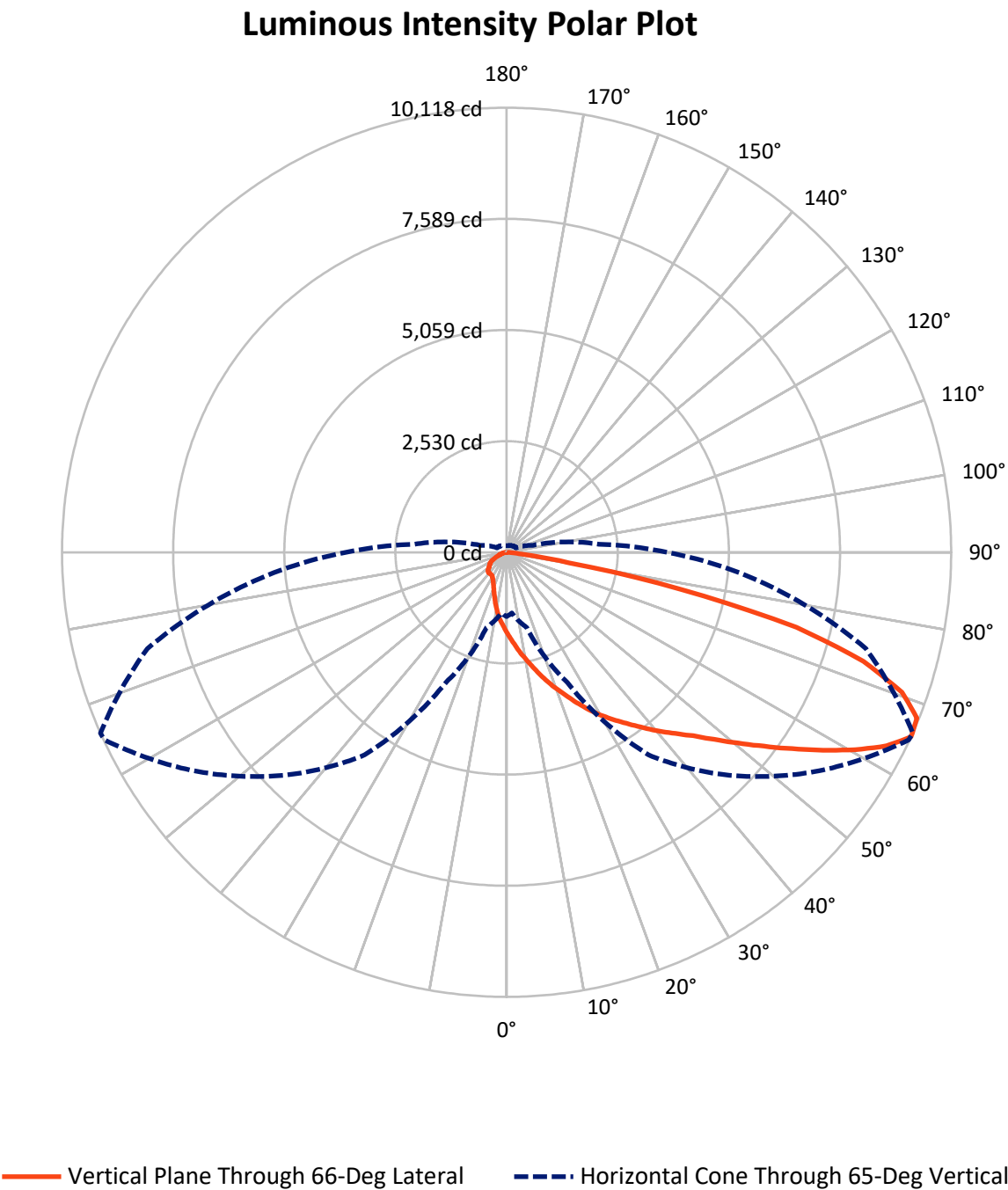
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
Type III - Short - N/A

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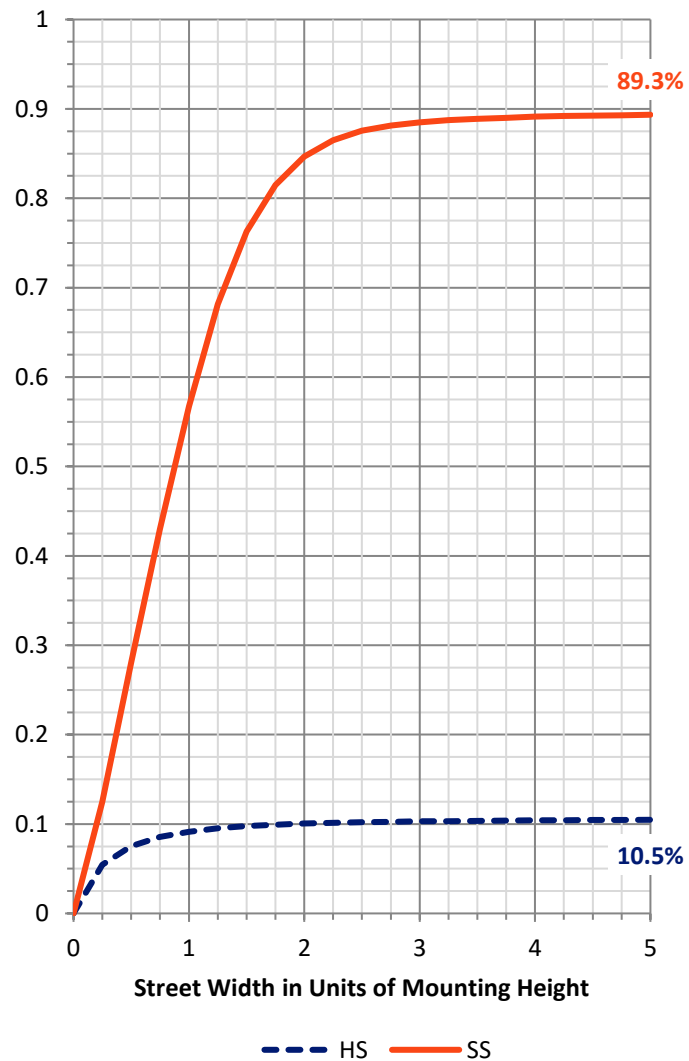
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1473.1	0.0	1473.1
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	12453.9	0.0	12453.9
	% Fixture	89.4	0.0	89.4
Total	Lumens	13927.0	0.0	13927.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.9	1.3
10°-20°	592.9	4.3
20°-30°	1072.8	7.7
30°-40°	1677.6	12.0
40°-50°	2544.9	18.3
50°-60°	3233.3	23.2
60°-70°	3021.2	21.7
70°-80°	1501.5	10.8
80°-90°	100.9	0.7
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°	13927.0	100.0
0°-180°	13927.0	100.0

Coefficient of Utilization



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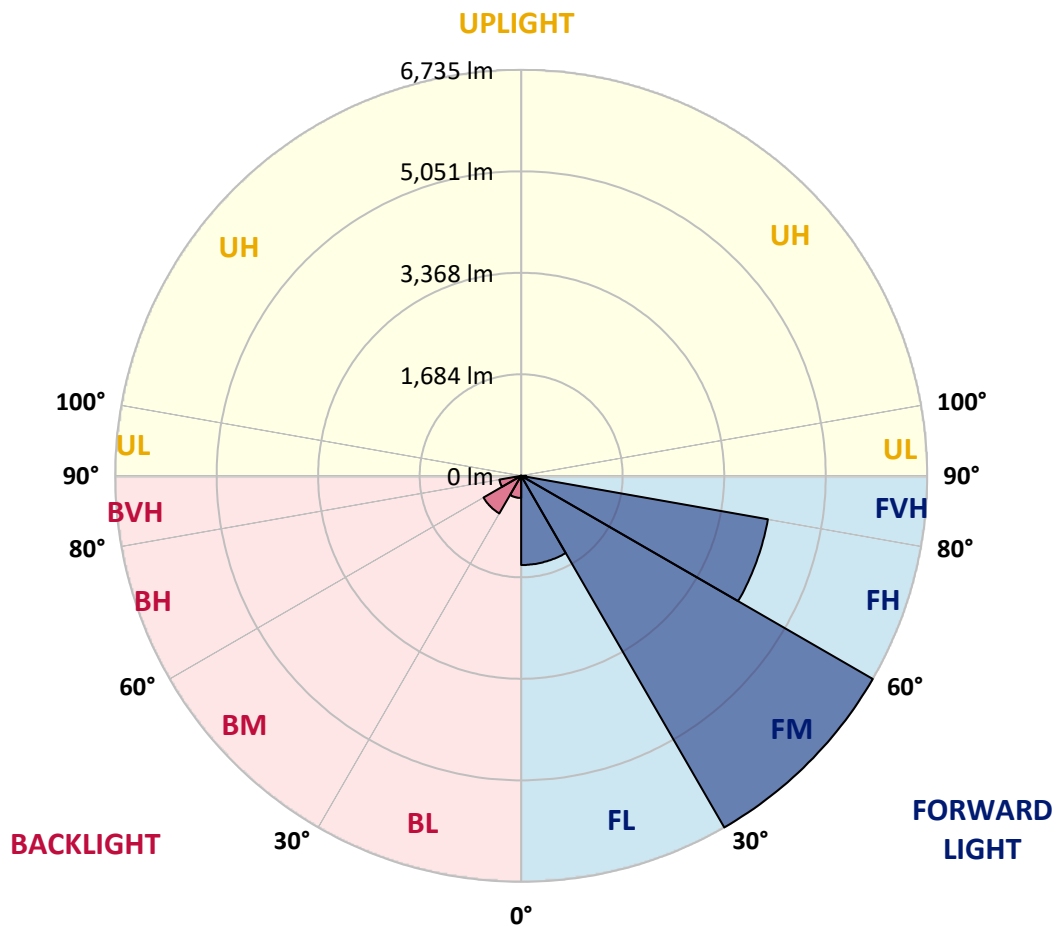
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1479.7	10.6			
FM	(30°-60°)	6735.3	48.4			
FH	(60°-80°)	4155.9	29.8			G2/5000
FVH	(80°-90°)	83.0	0.6			G1/100
BL	(0°-30°)	367.9	2.6	B1/500		
BM	(30°-60°)	720.5	5.2	B1/1000		
BH	(60°-80°)	366.9	2.6	B1/500		G1/500
BVH	(80°-90°)	17.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1843.2	1843.2	1843.2	1843.2	1843.2	1843.2	1843.2	1843.2	1843.2	1843.2	1843.2
2.5°	2152.8	2170.3	2179.1	2182.0	2114.8	2085.6	2056.4	1989.2	1974.6	1936.6	1887.0
5°	2532.5	2555.9	2550.0	2538.4	2456.6	2363.1	2287.2	2161.6	2141.1	2050.6	1939.6
7.5°	2906.4	2926.9	2921.0	2877.2	2786.7	2655.2	2529.6	2345.6	2316.4	2170.3	1992.1
10°	3219.0	3236.5	3233.6	3189.8	3081.7	2921.0	2769.1	2523.8	2488.7	2281.3	2035.9
12.5°	3476.0	3499.4	3496.5	3467.2	3370.9	3195.6	3023.3	2728.2	2684.4	2415.7	2097.3
15°	3677.6	3706.8	3706.8	3695.1	3627.9	3481.9	3286.1	2953.1	2900.6	2570.5	2173.2
17.5°	3800.2	3823.6	3844.1	3864.5	3817.8	3706.8	3528.6	3178.1	3122.6	2722.4	2252.1
20°	3864.5	3887.9	3902.5	3946.3	3955.1	3899.6	3759.3	3400.1	3341.6	2894.7	2342.7
22.5°	3969.7	3990.1	3993.0	4031.0	4048.5	4063.1	3975.5	3619.1	3572.4	3084.6	2444.9
25°	4144.9	4168.3	4159.5	4177.1	4180.0	4197.5	4188.7	3870.3	3823.6	3300.7	2567.6
27.5°	4369.8	4399.1	4393.2	4375.7	4349.4	4334.8	4372.8	4124.5	4080.7	3516.9	2693.2
30°	4612.3	4647.3	4638.6	4603.5	4533.4	4472.1	4524.7	4364.0	4323.1	3738.9	2833.4
32.5°	4857.7	4898.5	4895.6	4837.2	4717.4	4612.3	4691.2	4588.9	4559.7	3978.4	2985.3
35°	5018.3	5070.9	5065.0	5030.0	4875.2	4784.6	4881.0	4819.7	4799.2	4270.5	3204.4
37.5°	5278.3	5333.8	5284.1	5196.5	5018.3	4971.6	5088.4	5079.6	5065.0	4580.2	3435.1
40°	5909.2	5991.0	5859.6	5500.3	5208.2	5167.3	5333.8	5368.8	5354.2	4886.9	3642.5
42.5°	6569.4	6692.1	6487.6	5991.0	5552.9	5403.9	5602.5	5652.2	5634.6	5149.8	3829.5
45°	6969.5	7022.1	6817.7	6432.1	6163.3	5690.1	5888.8	5970.6	5956.0	5465.2	4069.0
47.5°	7296.7	7276.3	7042.6	6782.6	6832.3	6093.2	6213.0	6373.7	6362.0	5812.8	4331.9
50°	7366.8	7320.1	7226.6	7063.0	7194.5	6502.2	6554.8	6832.3	6820.6	6198.4	4597.7
52.5°	6873.2	6811.8	7065.9	7203.2	7159.4	6800.1	6931.6	7334.7	7328.8	6616.1	4851.8
55°	5640.5	5590.8	6274.3	6984.2	7121.4	7010.4	7349.3	7857.5	7889.7	7060.1	5082.6
57.5°	4437.0	4384.4	5056.3	6435.0	6981.2	7203.2	7837.1	8456.3	8497.2	7542.1	5301.6
60°	3537.4	3458.5	3972.6	5570.4	6718.3	7352.2	8307.4	9113.6	9119.4	7983.1	5436.0
62.5°	2404.0	2316.4	2886.0	4475.0	6277.3	7375.6	8669.6	9680.3	9703.6	8313.2	5459.4
65°	1460.5	1387.5	1773.1	3268.6	5625.9	7176.9	8675.4	10098.0	10118.4	8465.1	5319.2
67.5°	847.1	817.9	1013.6	2035.9	4545.1	6642.4	8310.3	10033.7	10071.7	8400.8	5000.8
70°	493.7	490.7	563.8	1007.8	3207.3	5582.1	7495.3	9493.3	9548.8	8064.9	4513.0
72.5°	362.2	368.0	397.3	540.4	1857.8	4019.3	6347.4	8406.7	8491.4	7407.7	3817.8
75°	286.3	289.2	315.5	368.0	975.6	2272.6	4755.4	6747.6	6814.7	6236.4	2982.4
77.5°	213.2	219.1	239.5	260.0	452.8	1042.8	2675.7	4156.6	4045.6	3423.4	1440.1
80°	154.8	169.4	178.2	186.9	239.5	403.1	803.3	1448.8	1437.1	1495.6	680.6
82.5°	99.3	111.0	119.8	125.6	143.1	192.8	239.5	324.2	350.5	581.3	271.7
85°	43.8	49.7	55.5	67.2	61.3	67.2	99.3	64.3	55.5	87.6	49.7
87.5°	0.0	0.0	8.8	14.6	11.7	5.8	17.5	11.7	8.8	8.8	8.8
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°	1843.2	1843.2	1843.2	1843.2	1843.2	1843.2	1843.2	1843.2	1843.2	1843.2	1843.2
2.5°	1860.7	1828.6	1761.4	1697.1	1659.1	1609.5	1565.7	1524.8	1521.9	1510.2	1489.7
5°	1884.1	1822.7	1697.1	1577.3	1486.8	1390.4	1308.6	1244.4	1221.0	1203.5	1180.1
7.5°	1907.4	1811.0	1624.1	1448.8	1305.7	1171.3	1074.9	987.3	961.0	937.6	923.0
10°	1916.2	1790.6	1539.4	1305.7	1118.7	975.6	873.4	809.1	785.8	774.1	765.3
12.5°	1942.5	1778.9	1460.5	1171.3	955.2	823.7	750.7	712.7	704.0	695.2	686.4
15°	1977.5	1778.9	1381.6	1039.9	826.6	721.5	677.7	651.4	645.5	642.6	636.8
17.5°	2015.5	1778.9	1305.7	928.9	733.2	654.3	622.2	607.6	604.7	601.7	598.8
20°	2068.1	1781.8	1223.9	832.5	666.0	604.7	578.4	560.8	557.9	555.0	555.0
22.5°	2120.7	1787.7	1145.0	759.5	622.2	566.7	534.5	517.0	511.2	511.2	511.2
25°	2187.8	1805.2	1072.0	698.1	584.2	531.6	490.7	476.1	473.2	473.2	470.3
27.5°	2266.7	1825.6	1007.8	651.4	546.2	490.7	449.8	435.2	429.4	429.4	426.5
30°	2351.4	1846.1	955.2	616.3	508.3	449.8	411.9	394.3	388.5	391.4	388.5
32.5°	2444.9	1875.3	914.3	593.0	473.2	414.8	379.7	359.3	356.4	356.4	353.4
35°	2602.6	1957.1	908.4	581.3	444.0	388.5	353.4	333.0	330.1	330.1	327.2
37.5°	2772.0	2050.6	934.7	575.4	420.6	365.1	333.0	312.5	309.6	309.6	309.6
40°	2915.2	2120.7	963.9	575.4	406.0	344.7	315.5	297.9	297.9	297.9	297.9
42.5°	3011.6	2126.5	958.1	575.4	394.3	330.1	303.8	286.3	286.3	289.2	286.3
45°	3154.7	2155.7	934.7	566.7	385.6	318.4	292.1	277.5	274.6	277.5	277.5
47.5°	3324.1	2208.3	911.4	531.6	382.7	306.7	283.3	265.8	262.9	265.8	262.9
50°	3484.8	2255.0	899.7	484.9	376.8	295.0	271.7	254.1	251.2	254.1	251.2
52.5°	3619.1	2275.5	879.2	452.8	362.2	283.3	260.0	242.4	236.6	239.5	239.5
55°	3727.2	2269.6	850.0	426.5	335.9	271.7	245.4	230.8	222.0	222.0	219.1
57.5°	3826.5	2272.6	823.7	400.2	306.7	254.1	233.7	216.2	204.5	201.6	198.6
60°	3864.5	2257.9	777.0	365.1	277.5	239.5	219.1	198.6	186.9	184.0	181.1
62.5°	3811.9	2205.4	715.6	303.8	251.2	222.0	204.5	184.0	172.3	169.4	166.5
65°	3663.0	2106.1	622.2	239.5	227.8	201.6	186.9	172.3	157.7	151.9	149.0
67.5°	3408.8	1962.9	505.3	192.8	201.6	184.0	175.3	157.7	140.2	134.4	131.4
70°	3046.6	1773.1	379.7	163.6	178.2	163.6	157.7	140.2	125.6	119.8	116.8
72.5°	2538.4	1466.4	265.8	140.2	154.8	143.1	137.3	125.6	111.0	102.2	102.2
75°	1919.1	1051.6	175.3	119.8	128.5	122.7	113.9	105.2	96.4	90.6	87.6
77.5°	826.6	408.9	108.1	90.6	105.2	102.2	90.6	84.7	81.8	75.9	75.9
80°	356.4	166.5	67.2	67.2	75.9	73.0	70.1	64.3	64.3	61.3	58.4
82.5°	131.4	67.2	40.9	49.7	55.5	49.7	49.7	49.7	49.7	46.7	46.7
85°	32.1	20.4	20.4	29.2	32.1	29.2	32.1	29.2	29.2	29.2	26.3
87.5°	8.8	8.8	11.7	11.7	11.7	11.7	11.7	8.8	0.0	0.0	0.0
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)