

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: P836234

Luminaire Tested: **ARCH3-160-722-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836234
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-160-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1245mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13712 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 161
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

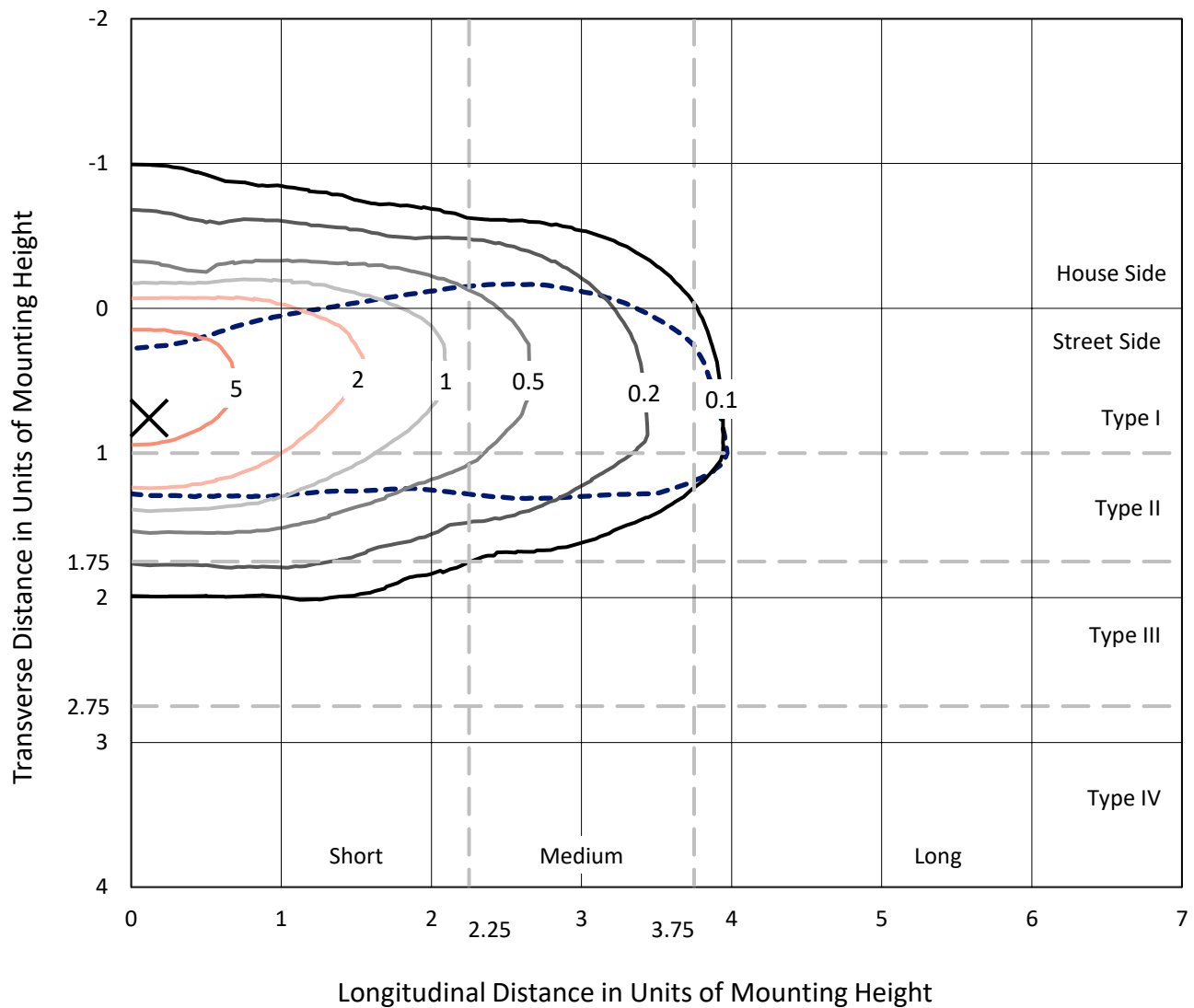


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



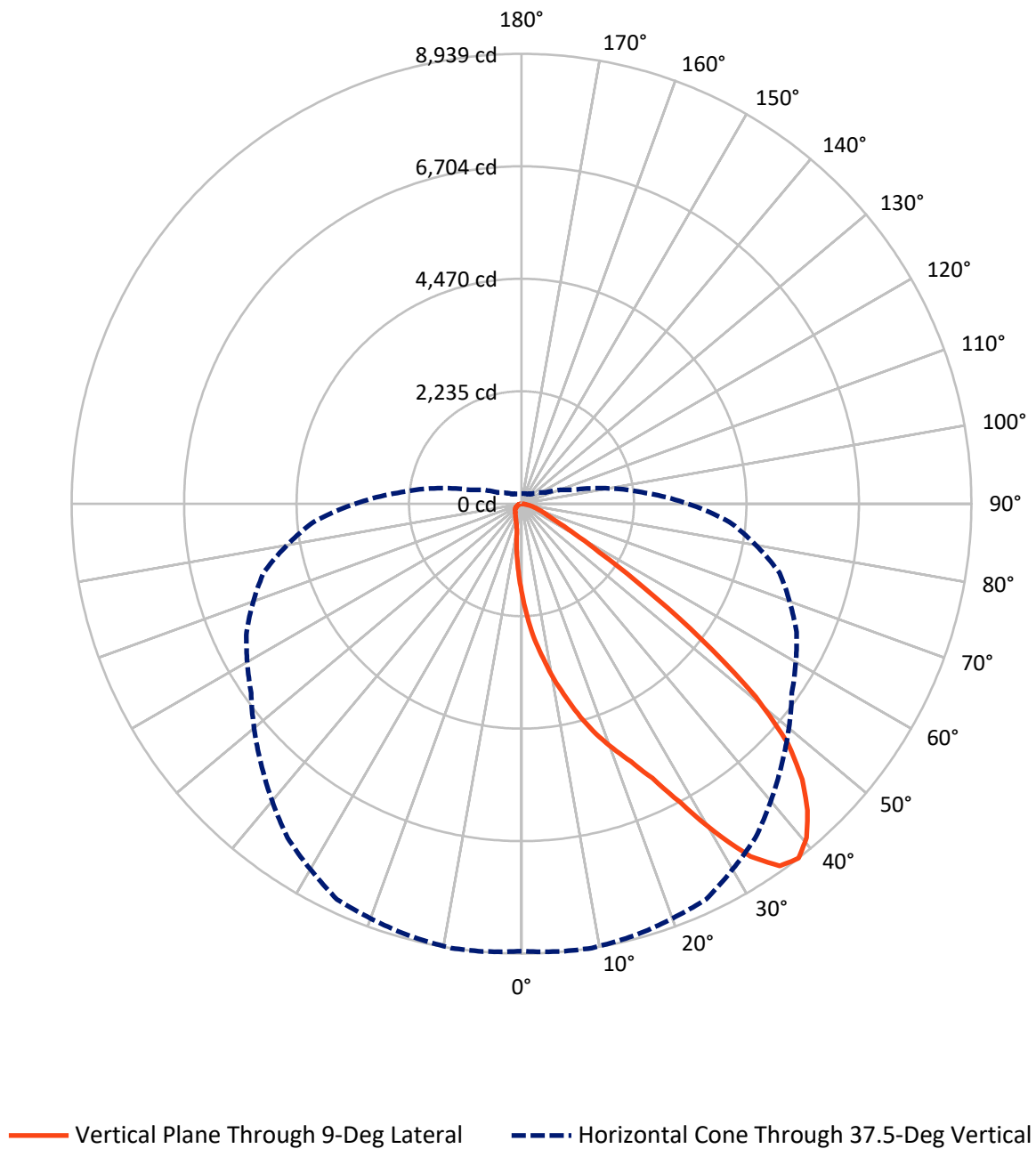
Based on 25 foot mounting height. Maximum calculated value = 8 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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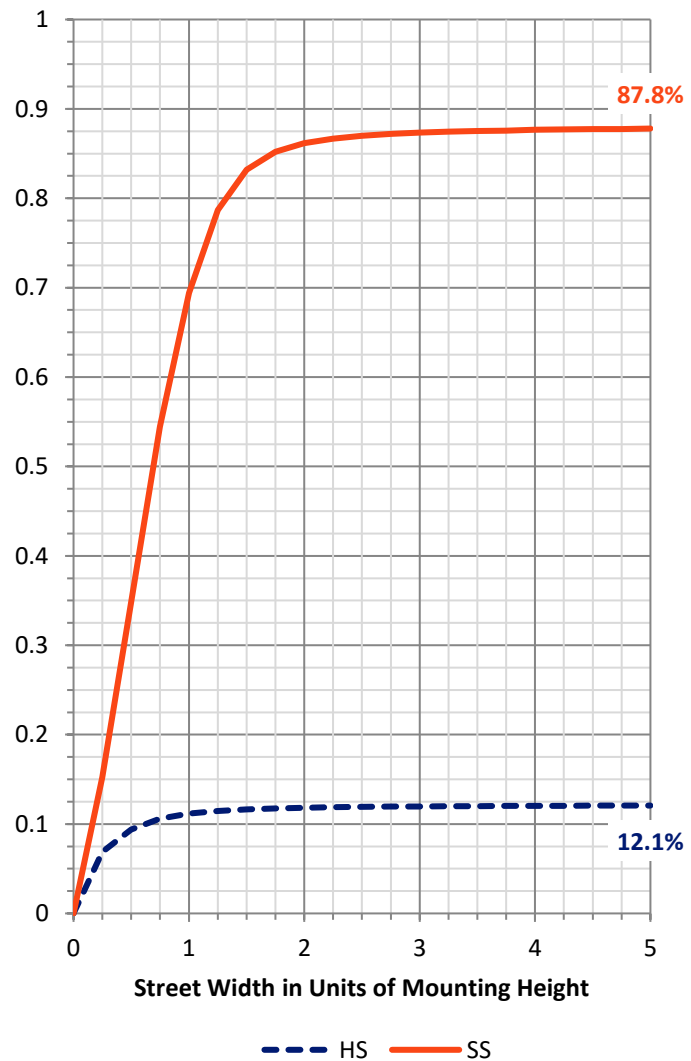
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1667.6	0.0	1667.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	12044.4	0.0	12044.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	13712.0	0.0	13712.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.2	1.3
10°-20°	633.2	4.6
20°-30°	1301.2	9.5
30°-40°	2299.9	16.8
40°-50°	3055.2	22.3
50°-60°	2897.7	21.1
60°-70°	2210.7	16.1
70°-80°	1071.7	7.8
80°-90°	60.3	0.4
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°	13712.0	100.0
0°-180°	13712.0	100.0

Coefficient of Utilization

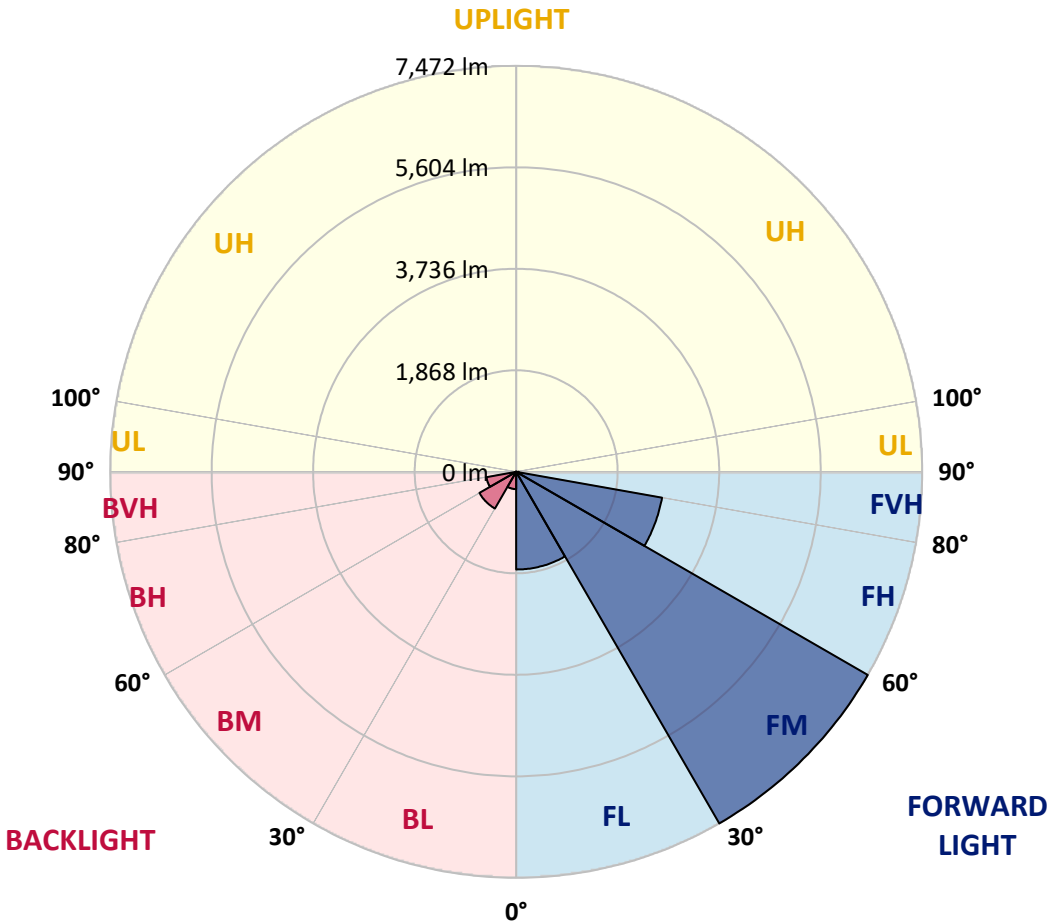


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1798.3	13.1			
FM	(30°-60°)	7472.4	54.5			
FH	(60°-80°)	2725.9	19.9			G2/5000
FVH	(80°-90°)	47.8	0.3			G1/100
BL	(0°-30°)	318.2	2.3	B1/500		
BM	(30°-60°)	780.3	5.7	B1/1000		
BH	(60°-80°)	556.5	4.1	B2/1000		G2/1000
BVH	(80°-90°)	12.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1812.6	1812.6	1812.6	1812.6	1812.6	1812.6	1812.6	1812.6	1812.6	1812.6	1812.6
2.5°	2246.0	2206.6	2251.6	2246.0	2206.6	2181.3	2102.5	2077.1	1984.2	1916.7	1857.6
5°	2707.6	2668.2	2707.6	2696.3	2640.0	2578.1	2448.6	2364.2	2198.2	2051.8	1919.5
7.5°	3090.4	3090.4	3107.2	3110.1	3042.5	2946.8	2786.4	2659.7	2426.1	2201.0	1989.9
10°	3504.1	3506.9	3543.5	3518.2	3428.1	3298.6	3096.0	2935.6	2654.1	2358.6	2057.4
12.5°	3946.0	3948.8	3960.1	3948.8	3841.8	3675.8	3430.9	3219.8	2896.2	2538.7	2150.3
15°	4387.9	4390.7	4404.7	4385.0	4266.8	4072.6	3794.0	3535.1	3152.3	2741.4	2262.9
17.5°	4801.6	4807.2	4818.5	4793.2	4669.3	4438.5	4154.3	3841.8	3425.3	2958.1	2389.5
20°	5173.1	5178.7	5187.2	5153.4	5029.6	4798.8	4492.0	4165.5	3703.9	3180.4	2527.5
22.5°	5547.4	5553.1	5567.2	5522.1	5384.2	5119.6	4818.5	4480.7	3999.5	3425.3	2687.9
25°	6025.9	6031.5	6042.8	5978.1	5789.5	5479.9	5161.9	4815.7	4320.3	3701.1	2884.9
27.5°	6726.7	6721.1	6721.1	6602.9	6279.2	5876.7	5508.0	5156.2	4666.5	3996.6	3101.6
30°	7593.6	7579.5	7571.1	7410.7	6949.1	6324.3	5862.7	5474.3	4998.6	4309.1	3335.2
32.5°	8370.4	8370.4	8353.5	8184.7	7694.9	6926.6	6239.8	5783.9	5319.5	4624.3	3577.3
35°	8829.2	8848.9	8840.5	8713.8	8356.4	7573.9	6749.3	6155.4	5657.2	4953.6	3867.2
37.5°	8891.1	8930.5	8939.0	8863.0	8674.4	8103.0	7315.0	6557.9	6028.7	5308.2	4148.6
40°	8640.6	8725.1	8725.1	8713.8	8646.3	8353.5	7790.6	7025.1	6411.5	5676.9	4432.9
42.5°	8255.0	8342.3	8331.0	8373.2	8356.4	8294.4	8058.0	7461.3	6794.3	6056.9	4691.8
45°	7751.2	7841.3	7818.8	7894.8	7928.5	7996.1	8029.9	7765.3	7171.4	6470.6	4981.7
47.5°	6943.5	7095.4	7129.2	7264.3	7405.0	7616.1	7776.6	7875.1	7523.3	6915.3	5297.0
50°	5750.1	5964.0	6031.5	6315.8	6701.4	7137.7	7396.6	7740.0	7770.9	7371.3	5637.5
52.5°	4117.7	4365.3	4469.5	4936.7	5730.4	6490.3	6957.5	7441.6	7866.6	7807.5	6006.2
55°	2662.6	2873.6	2975.0	3414.0	4469.5	5662.8	6439.7	7056.0	7813.1	8207.2	6428.4
57.5°	1640.9	1761.9	1829.4	2206.6	3177.6	4601.8	5761.4	6701.4	7649.9	8553.4	6867.5
60°	1106.1	1176.5	1210.3	1387.6	2158.7	3439.4	4829.7	6329.9	7436.0	8787.0	7267.1
62.5°	734.6	757.1	790.9	900.7	1424.2	2414.9	3709.6	5665.7	7275.6	8801.1	7562.7
65°	568.5	579.8	593.9	641.7	878.1	1688.7	2609.1	4590.5	7036.3	8502.7	7655.5
67.5°	447.5	458.8	475.7	501.0	636.1	1145.5	1776.0	3363.4	6546.6	8035.5	7503.6
70°	351.8	360.3	371.5	394.0	495.4	830.3	1173.7	2234.7	5558.7	7590.8	7025.1
72.5°	278.6	287.1	298.3	320.9	402.5	607.9	805.0	1393.2	4286.5	7047.6	6104.7
75°	219.5	225.2	233.6	256.1	323.7	472.8	546.0	833.1	2913.0	6054.1	4756.6
77.5°	109.8	135.1	154.8	177.3	236.4	326.5	363.1	461.6	1230.0	3107.2	2268.5
80°	64.7	78.8	84.4	98.5	154.8	197.0	197.0	185.8	388.4	1193.4	926.0
82.5°	36.6	50.7	53.5	56.3	92.9	112.6	90.1	67.5	78.8	399.7	270.2
85°	11.3	16.9	19.7	22.5	31.0	33.8	31.0	28.1	22.5	39.4	25.3
87.5°	0.0	0.0	0.0	0.0	2.8	5.6	5.6	5.6	8.4	8.4	8.4
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°	1812.6	1812.6	1812.6	1812.6	1812.6	1812.6	1812.6	1812.6	1812.6	1812.6	1812.6
2.5°	1823.8	1787.2	1716.9	1652.1	1590.2	1545.2	1503.0	1463.6	1435.4	1412.9	1410.1
5°	1849.1	1776.0	1640.9	1514.2	1398.8	1303.1	1221.5	1156.8	1108.9	1075.2	1072.3
7.5°	1882.9	1770.3	1564.9	1376.3	1204.6	1066.7	948.5	861.2	799.3	774.0	754.3
10°	1911.1	1764.7	1488.9	1238.4	1013.2	838.7	698.0	610.8	565.7	548.8	540.4
12.5°	1958.9	1770.3	1424.2	1111.7	847.2	641.7	534.8	486.9	467.2	453.1	450.3
15°	2029.3	1795.7	1362.2	987.9	678.3	517.9	456.0	425.0	405.3	402.5	399.7
17.5°	2099.6	1818.2	1305.9	861.2	562.9	450.3	408.1	382.8	368.7	365.9	365.9
20°	2181.3	1846.3	1244.0	740.2	481.3	405.3	371.5	351.8	334.9	332.1	332.1
22.5°	2277.0	1885.7	1184.9	633.3	427.8	371.5	343.4	320.9	306.8	304.0	304.0
25°	2406.4	1944.8	1137.1	554.5	391.2	343.4	318.0	298.3	287.1	281.5	281.5
27.5°	2550.0	2026.5	1103.3	506.6	365.9	320.9	295.5	278.6	267.4	261.8	261.8
30°	2710.4	2116.5	1080.8	486.9	351.8	301.2	278.6	261.8	247.7	244.9	244.9
32.5°	2887.7	2220.7	1066.7	489.7	349.0	287.1	261.8	244.9	233.6	228.0	228.0
35°	3084.7	2336.1	1058.3	506.6	354.6	275.8	247.7	230.8	219.5	213.9	213.9
37.5°	3304.3	2471.2	1058.3	523.5	368.7	273.0	233.6	216.7	208.3	202.6	202.6
40°	3509.7	2614.7	1069.5	543.2	382.8	273.0	222.3	208.3	197.0	191.4	191.4
42.5°	3670.2	2696.3	1078.0	562.9	391.2	270.2	211.1	197.0	188.6	182.9	182.9
45°	3853.1	2783.6	1061.1	571.4	391.2	264.6	202.6	188.6	180.1	174.5	174.5
47.5°	4055.7	2890.5	1058.3	577.0	382.8	253.3	194.2	180.1	174.5	168.9	168.9
50°	4261.2	3008.7	1063.9	574.2	371.5	236.4	182.9	174.5	166.1	160.4	160.4
52.5°	4494.8	3132.6	1075.2	568.5	346.2	216.7	174.5	166.1	157.6	152.0	149.2
55°	4753.7	3267.7	1097.7	557.3	312.4	197.0	166.1	157.6	146.4	140.7	137.9
57.5°	5052.1	3433.7	1123.0	534.8	275.8	180.1	157.6	146.4	129.5	121.0	118.2
60°	5336.4	3622.3	1151.1	481.3	239.2	163.2	149.2	132.3	115.4	109.8	107.0
62.5°	5603.7	3808.1	1165.2	385.6	202.6	149.2	140.7	121.0	104.1	98.5	95.7
65°	5775.4	4010.7	1134.3	261.8	166.1	137.9	129.5	112.6	95.7	87.3	87.3
67.5°	5786.7	4106.4	1027.3	171.7	135.1	123.8	118.2	101.3	84.4	78.8	76.0
70°	5502.4	3962.9	785.3	135.1	112.6	107.0	107.0	90.1	73.2	67.5	64.7
72.5°	4849.4	3509.7	501.0	109.8	95.7	90.1	90.1	76.0	64.7	56.3	53.5
75°	3827.8	2707.6	267.4	90.1	78.8	76.0	70.4	61.9	53.5	47.8	45.0
77.5°	1759.1	1193.4	123.8	64.7	59.1	59.1	53.5	45.0	42.2	36.6	36.6
80°	695.2	405.3	61.9	42.2	39.4	39.4	39.4	31.0	31.0	25.3	22.5
82.5°	191.4	84.4	31.0	25.3	25.3	25.3	22.5	19.7	19.7	16.9	16.9
85°	19.7	14.1	14.1	14.1	14.1	11.3	11.3	8.4	5.6	5.6	5.6
87.5°	8.4	8.4	8.4	8.4	8.4	5.6	2.8	0.0	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)