

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: P836450

Luminaire Tested: **ARCH3-190-722-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836450
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: ARCH3-190-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1440mA 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: 15172 lumens
Efficiency: N/A
Efficacy: 80.1 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): 189.4
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



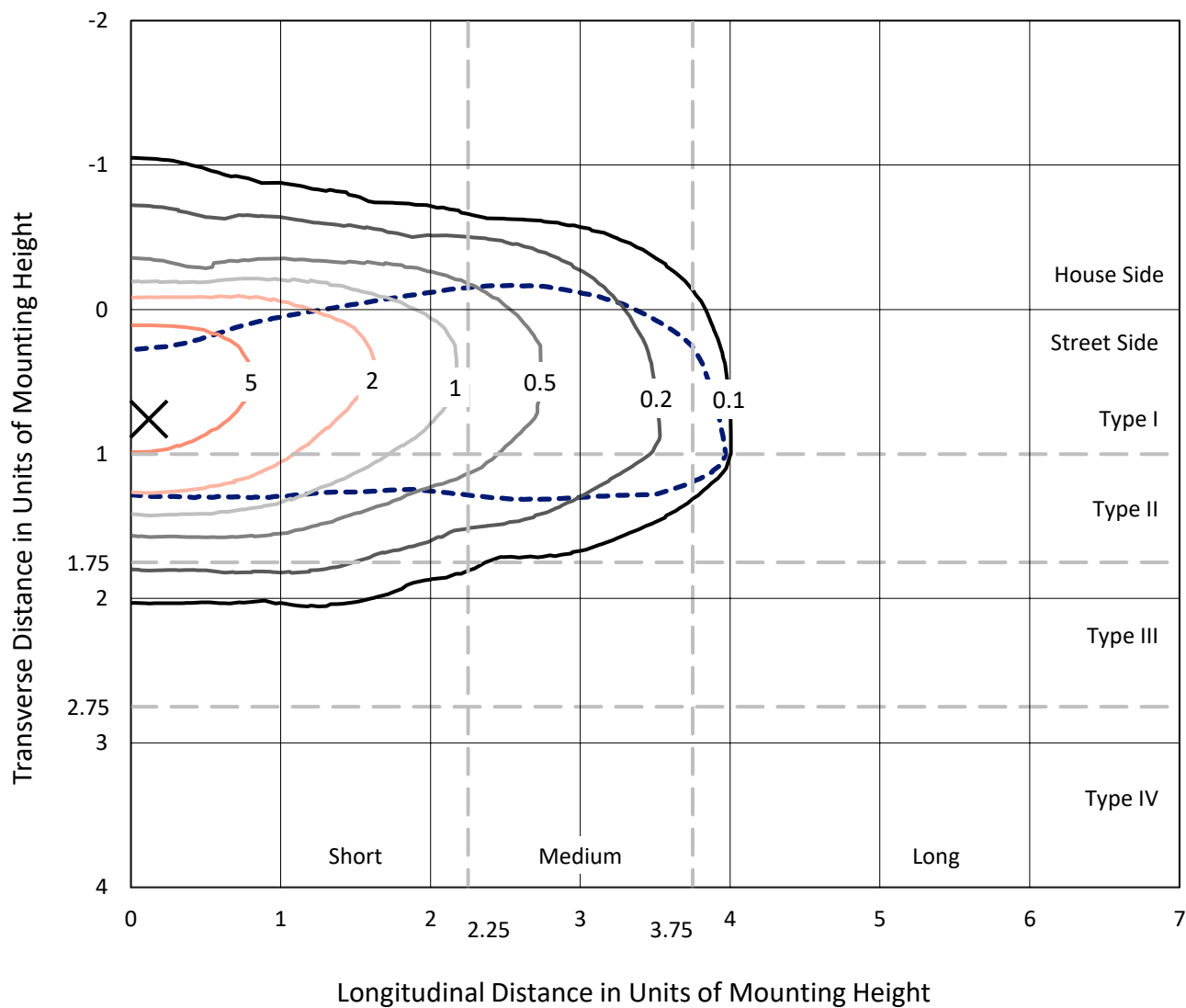
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

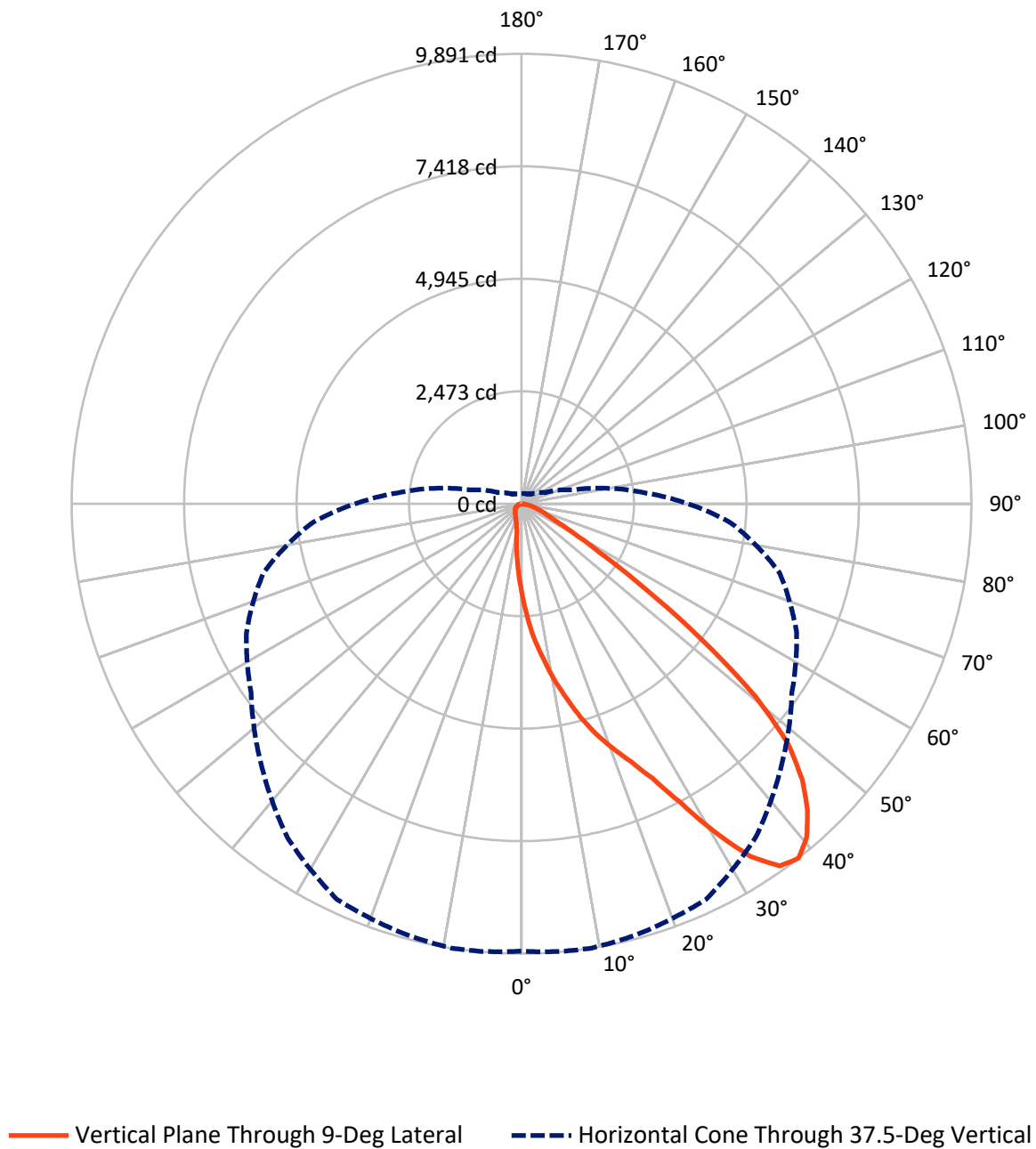
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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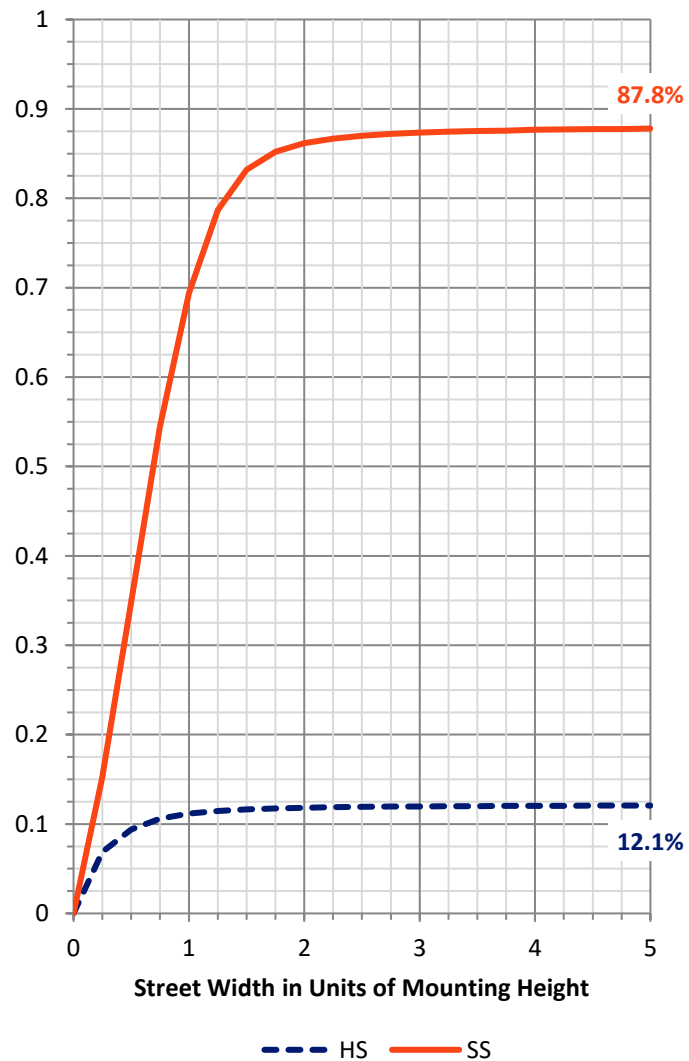
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1845.2	0.0	1845.2
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	13326.8	0.0	13326.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	15172.0	0.0	15172.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.6	1.3
10°-20°	700.7	4.6
20°-30°	1439.7	9.5
30°-40°	2544.8	16.8
40°-50°	3380.5	22.3
50°-60°	3206.2	21.1
60°-70°	2446.0	16.1
70°-80°	1185.8	7.8
80°-90°	66.7	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°	15172.0	100.0
0°-180°	15172.0	100.0

Coefficient of Utilization



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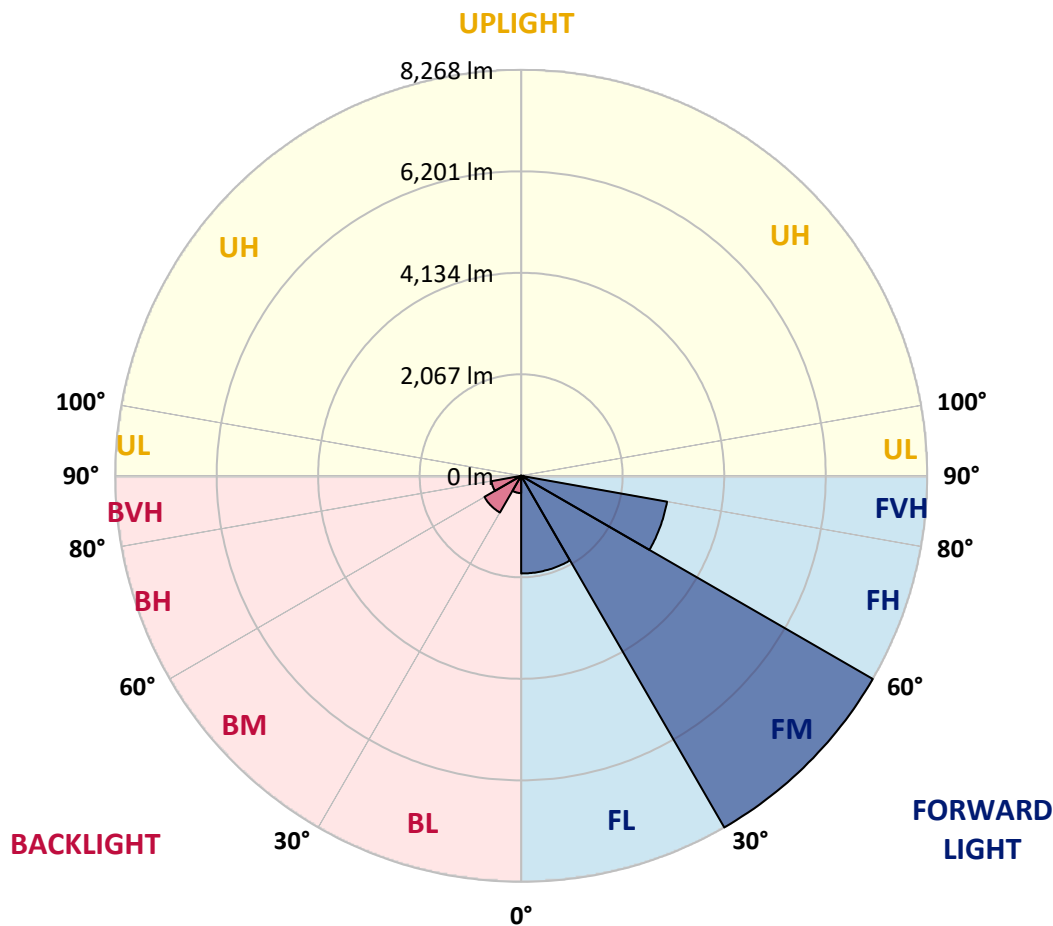
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1989.8	13.1			
FM	(30°-60°)	8268.0	54.5			
FH	(60°-80°)	3016.1	19.9			G2/5000
FVH	(80°-90°)	52.8	0.3			G1/100
BL	(0°-30°)	352.1	2.3	B1/500		
BM	(30°-60°)	863.4	5.7	B1/1000		
BH	(60°-80°)	615.7	4.1	B2/1000		G2/1000
BVH	(80°-90°)	13.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2005.6	2005.6	2005.6	2005.6	2005.6	2005.6	2005.6	2005.6	2005.6	2005.6	2005.6
2.5°	2485.1	2441.5	2491.4	2485.1	2441.5	2413.5	2326.3	2298.3	2195.5	2120.8	2055.4
5°	2995.9	2952.3	2995.9	2983.4	2921.1	2852.6	2709.4	2615.9	2432.2	2270.3	2123.9
7.5°	3419.4	3419.4	3438.1	3441.2	3366.5	3260.6	3083.1	2942.9	2684.5	2435.3	2201.8
10°	3877.2	3880.3	3920.8	3892.8	3793.1	3649.9	3425.6	3248.1	2936.7	2609.7	2276.5
12.5°	4366.1	4369.2	4381.7	4369.2	4250.9	4067.2	3796.2	3562.7	3204.5	2809.0	2379.3
15°	4855.1	4858.2	4873.7	4851.9	4721.2	4506.3	4198.0	3911.5	3487.9	3033.2	2503.8
17.5°	5312.9	5319.1	5331.5	5303.5	5166.5	4911.1	4596.6	4250.9	3790.0	3273.0	2644.0
20°	5723.9	5730.2	5739.5	5702.1	5565.1	5309.7	4970.3	4609.0	4098.3	3519.1	2796.6
22.5°	6138.1	6144.3	6159.9	6110.1	5957.5	5664.8	5331.5	4957.8	4425.3	3790.0	2974.1
25°	6667.5	6673.8	6686.2	6614.6	6405.9	6063.4	5711.5	5328.4	4780.3	4095.2	3192.1
27.5°	7443.0	7436.7	7436.7	7305.9	6947.8	6502.5	6094.5	5705.2	5163.4	4422.2	3431.9
30°	8402.2	8386.6	8377.2	8199.7	7689.0	6997.6	6486.9	6057.1	5530.8	4767.9	3690.3
32.5°	9261.7	9261.7	9243.0	9056.1	8514.3	7664.1	6904.2	6399.7	5885.9	5116.7	3958.2
35°	9769.3	9791.1	9781.8	9641.6	9246.1	8380.4	7467.9	6810.8	6259.6	5481.0	4278.9
37.5°	9837.8	9881.4	9890.7	9806.7	9598.0	8965.8	8093.8	7256.1	6670.6	5873.4	4590.4
40°	9560.6	9654.1	9654.1	9641.6	9566.9	9243.0	8620.1	7773.1	7094.2	6281.4	4904.9
42.5°	9134.0	9230.5	9218.1	9264.8	9246.1	9177.6	8916.0	8255.8	7517.7	6701.8	5191.4
45°	8576.5	8676.2	8651.3	8735.4	8772.7	8847.5	8884.9	8592.1	7935.0	7159.6	5512.2
47.5°	7682.8	7850.9	7888.3	8037.8	8193.5	8427.1	8604.6	8713.6	8324.3	7651.6	5861.0
50°	6362.3	6599.0	6673.8	6988.3	7414.9	7897.7	8184.2	8564.1	8598.3	8156.1	6237.8
52.5°	4556.1	4830.1	4945.4	5462.3	6340.5	7181.4	7698.3	8234.0	8704.2	8638.8	6645.7
55°	2946.0	3179.6	3291.7	3777.5	4945.4	6265.8	7125.3	7807.3	8645.1	9081.1	7112.9
57.5°	1815.6	1949.5	2024.2	2441.5	3515.9	5091.7	6374.8	7414.9	8464.4	9464.1	7598.7
60°	1223.9	1301.7	1339.1	1535.3	2388.6	3805.6	5344.0	7003.9	8227.8	9722.6	8040.9
62.5°	812.8	837.7	875.1	996.5	1575.8	2672.0	4104.5	6268.9	8050.2	9738.2	8367.9
65°	629.1	641.5	657.1	710.0	971.6	1868.5	2886.9	5079.3	7785.5	9408.0	8470.7
67.5°	495.2	507.6	526.3	554.3	703.8	1267.5	1965.1	3721.5	7243.7	8891.1	8302.5
70°	389.3	398.6	411.1	436.0	548.1	918.7	1298.6	2472.7	6150.6	8399.0	7773.1
72.5°	308.3	317.6	330.1	355.0	445.3	672.7	890.7	1541.5	4743.0	7798.0	6754.7
75°	242.9	249.1	258.5	283.4	358.1	523.2	604.2	921.8	3223.2	6698.7	5263.0
77.5°	121.5	149.5	171.3	196.2	261.6	361.2	401.7	510.7	1360.9	3438.1	2510.1
80°	71.6	87.2	93.4	109.0	171.3	218.0	218.0	205.5	429.8	1320.4	1024.6
82.5°	40.5	56.1	59.2	62.3	102.8	124.6	99.7	74.7	87.2	442.2	299.0
85°	12.5	18.7	21.8	24.9	34.3	37.4	34.3	31.1	24.9	43.6	28.0
87.5°	0.0	0.0	0.0	0.0	3.1	6.2	6.2	6.2	9.3	9.3	9.3
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°	2005.6	2005.6	2005.6	2005.6	2005.6	2005.6	2005.6	2005.6	2005.6	2005.6	2005.6
2.5°	2018.0	1977.5	1899.7	1828.0	1759.5	1709.7	1663.0	1619.4	1588.2	1563.3	1560.2
5°	2046.0	1965.1	1815.6	1675.4	1547.8	1441.9	1351.6	1279.9	1227.0	1189.6	1186.5
7.5°	2083.4	1958.8	1731.5	1522.9	1332.9	1180.3	1049.5	952.9	884.4	856.4	834.6
10°	2114.6	1952.6	1647.4	1370.3	1121.1	928.0	772.3	675.8	626.0	607.3	597.9
12.5°	2167.5	1958.8	1575.8	1230.1	937.4	710.0	591.7	538.8	517.0	501.4	498.3
15°	2245.3	1986.9	1507.3	1093.1	750.5	573.0	504.5	470.2	448.4	445.3	442.2
17.5°	2323.2	2011.8	1445.0	952.9	622.8	498.3	451.6	423.5	408.0	404.8	404.8
20°	2413.5	2042.9	1376.5	819.0	532.5	448.4	411.1	389.3	370.6	367.5	367.5
22.5°	2519.4	2086.5	1311.1	700.7	473.4	411.1	379.9	355.0	339.4	336.3	336.3
25°	2662.7	2151.9	1258.1	613.5	432.9	379.9	351.9	330.1	317.6	311.4	311.4
27.5°	2821.5	2242.2	1220.8	560.6	404.8	355.0	327.0	308.3	295.9	289.6	289.6
30°	2999.0	2341.9	1195.9	538.8	389.3	333.2	308.3	289.6	274.1	270.9	270.9
32.5°	3195.2	2457.1	1180.3	541.9	386.2	317.6	289.6	270.9	258.5	252.3	252.3
35°	3413.2	2584.8	1170.9	560.6	392.4	305.2	274.1	255.4	242.9	236.7	236.7
37.5°	3656.1	2734.3	1170.9	579.2	408.0	302.1	258.5	239.8	230.5	224.2	224.2
40°	3883.4	2893.1	1183.4	601.0	423.5	302.1	246.0	230.5	218.0	211.8	211.8
42.5°	4060.9	2983.4	1192.7	622.8	432.9	299.0	233.6	218.0	208.7	202.4	202.4
45°	4263.4	3080.0	1174.1	632.2	432.9	292.7	224.2	208.7	199.3	193.1	193.1
47.5°	4487.6	3198.3	1170.9	638.4	423.5	280.3	214.9	199.3	193.1	186.9	186.9
50°	4714.9	3329.1	1177.2	635.3	411.1	261.6	202.4	193.1	183.7	177.5	177.5
52.5°	4973.4	3466.1	1189.6	629.1	383.0	239.8	193.1	183.7	174.4	168.2	165.1
55°	5259.9	3615.6	1214.5	616.6	345.7	218.0	183.7	174.4	161.9	155.7	152.6
57.5°	5590.0	3799.3	1242.6	591.7	305.2	199.3	174.4	161.9	143.3	133.9	130.8
60°	5904.6	4008.0	1273.7	532.5	264.7	180.6	165.1	146.4	127.7	121.5	118.3
62.5°	6200.4	4213.5	1289.3	426.6	224.2	165.1	155.7	133.9	115.2	109.0	105.9
65°	6390.4	4437.8	1255.0	289.6	183.7	152.6	143.3	124.6	105.9	96.5	96.5
67.5°	6402.8	4543.6	1136.7	190.0	149.5	137.0	130.8	112.1	93.4	87.2	84.1
70°	6088.3	4384.8	868.9	149.5	124.6	118.3	118.3	99.7	81.0	74.7	71.6
72.5°	5365.8	3883.4	554.3	121.5	105.9	99.7	99.7	84.1	71.6	62.3	59.2
75°	4235.3	2995.9	295.9	99.7	87.2	84.1	77.9	68.5	59.2	52.9	49.8
77.5°	1946.4	1320.4	137.0	71.6	65.4	65.4	59.2	49.8	46.7	40.5	40.5
80°	769.2	448.4	68.5	46.7	43.6	43.6	43.6	34.3	34.3	28.0	24.9
82.5°	211.8	93.4	34.3	28.0	28.0	28.0	24.9	21.8	21.8	18.7	18.7
85°	21.8	15.6	15.6	15.6	15.6	12.5	12.5	9.3	6.2	6.2	6.2
87.5°	9.3	9.3	9.3	9.3	9.3	6.2	3.1	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)