

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: P836738

Luminaire Tested: **ARCH3-70-722-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836738
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: ARCH3-70-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 580mA 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: 7295 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 73.1
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

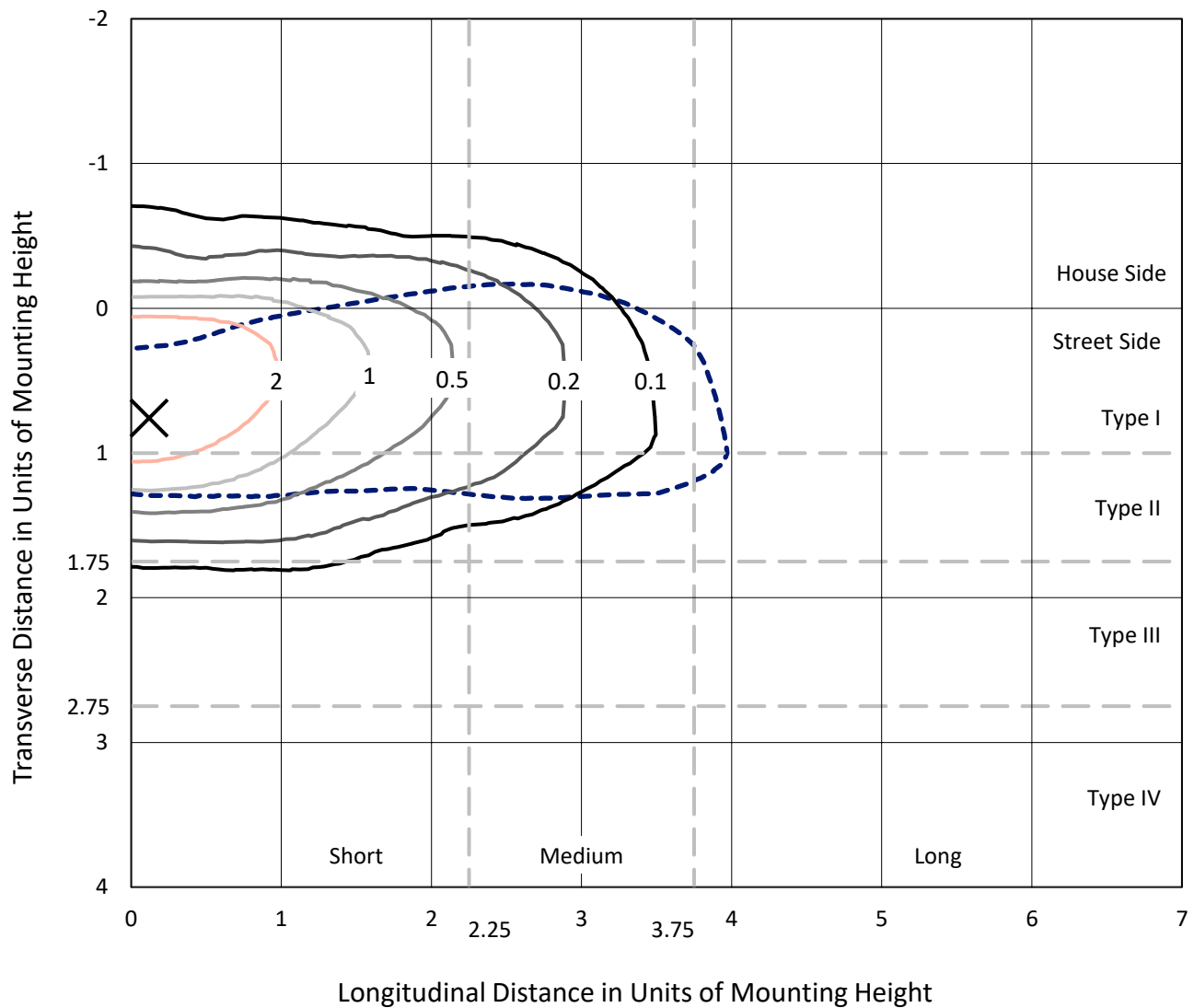


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

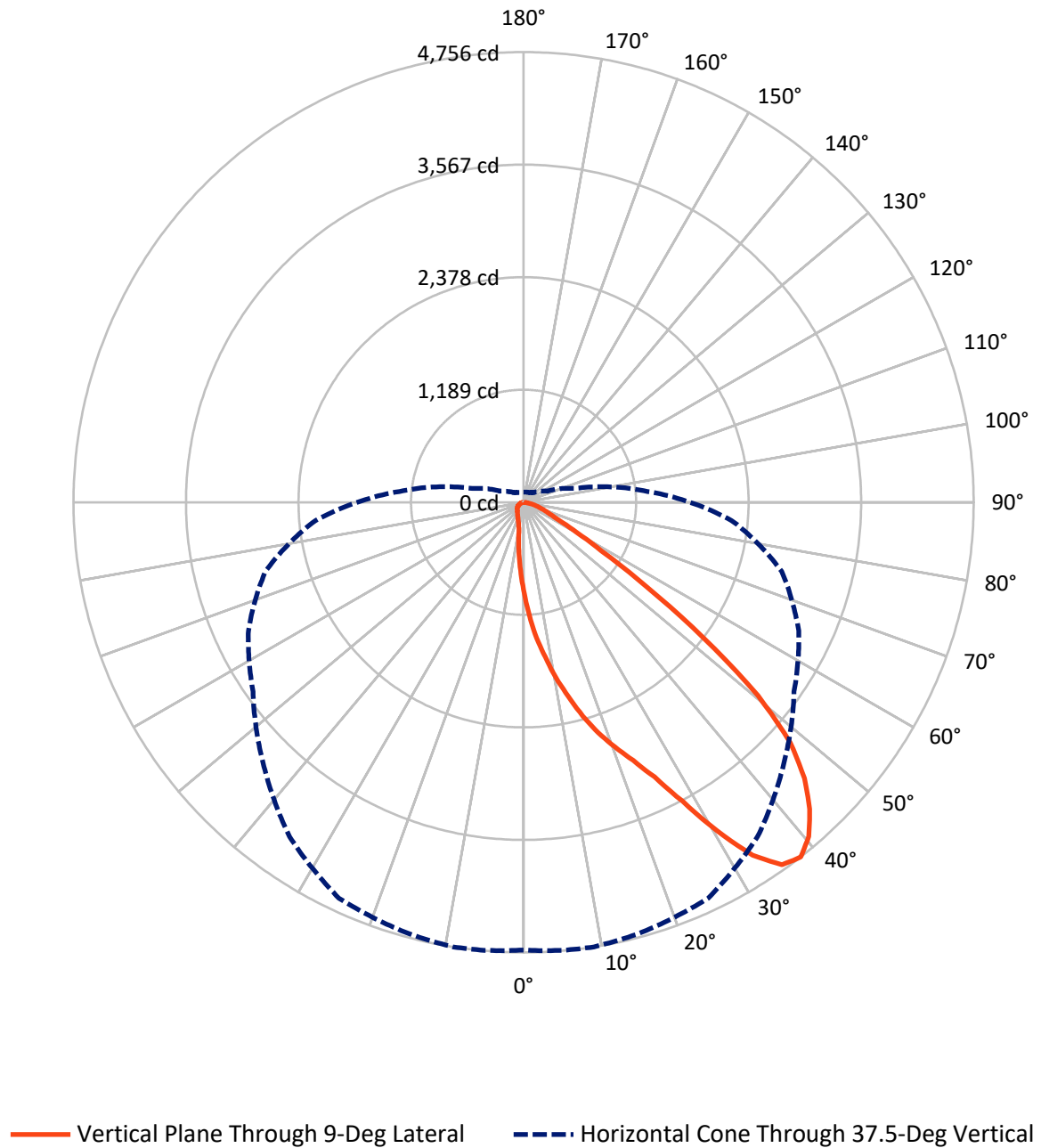


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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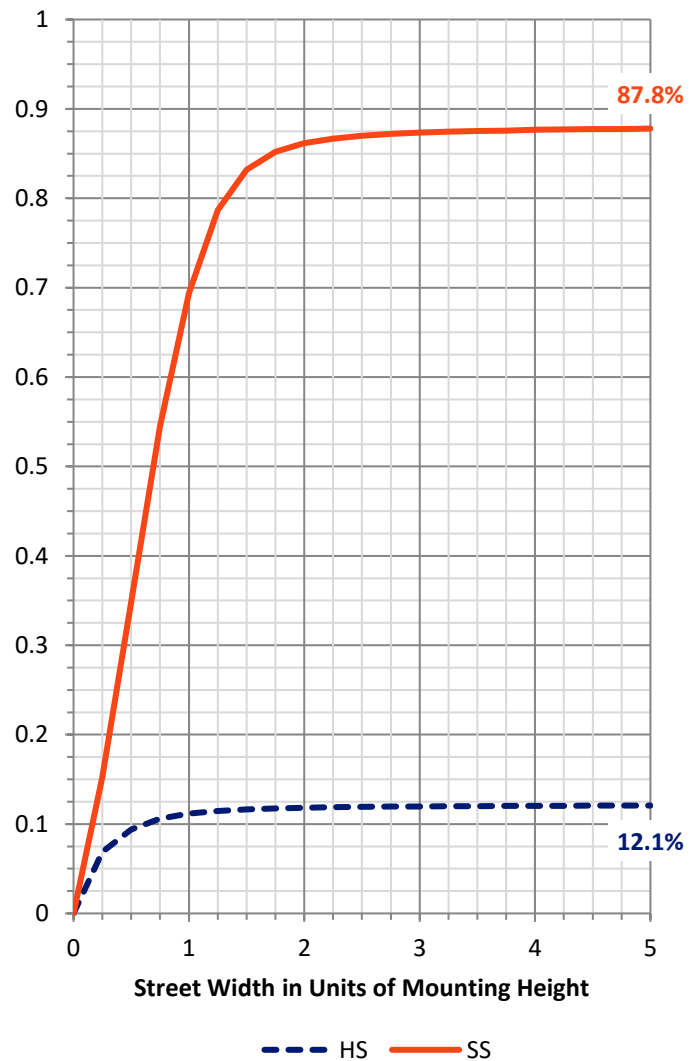
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	887.2	0.0	887.2
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	6407.8	0.0	6407.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	7295.0	0.0	7295.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	1.3
10°-20°	336.9	4.6
20°-30°	692.2	9.5
30°-40°	1223.6	16.8
40°-50°	1625.4	22.3
50°-60°	1541.6	21.1
60°-70°	1176.1	16.1
70°-80°	570.2	7.8
80°-90°	32.1	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°	7295.0	100.0
0°-180°	7295.0	100.0

Coefficient of Utilization



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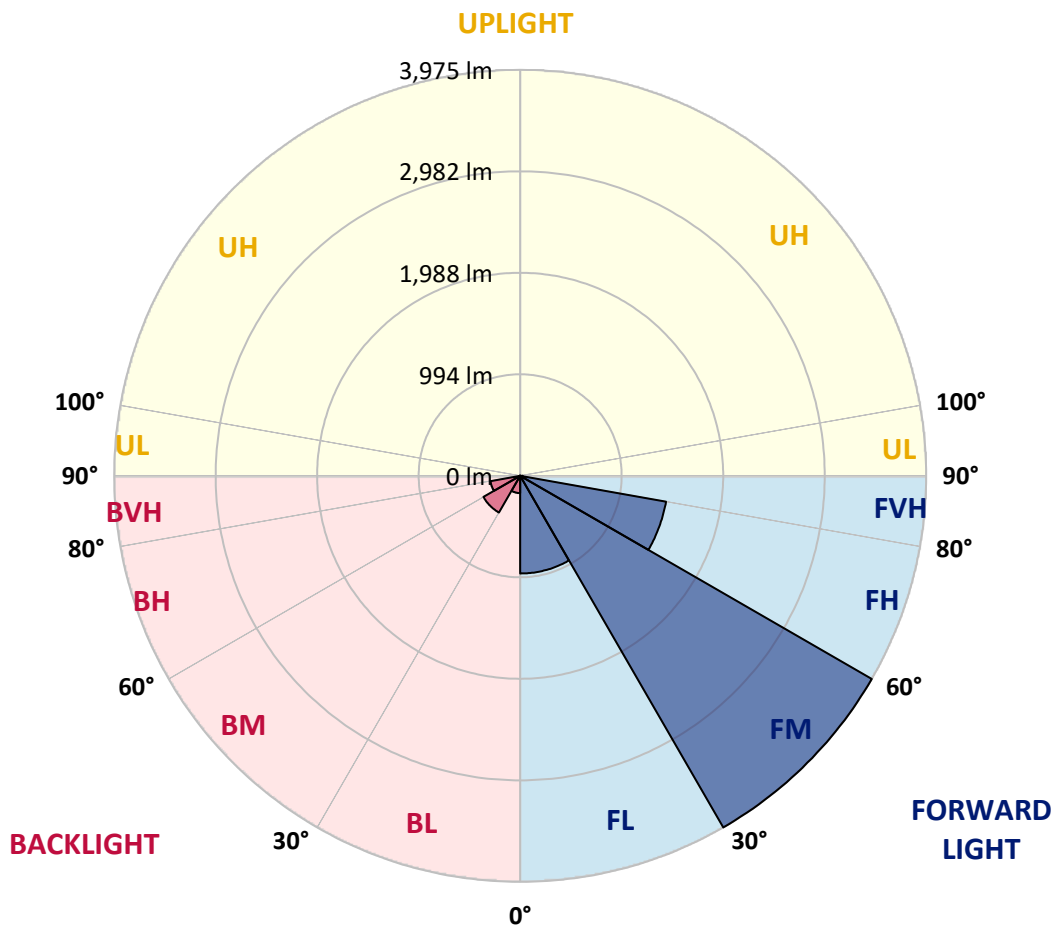
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	956.7	13.1			
FM	(30°-60°)	3975.4	54.5			
FH	(60°-80°)	1450.2	19.9			G1/1800
FVH	(80°-90°)	25.4	0.3			G1/100
BL	(0°-30°)	169.3	2.3	B1/500		
BM	(30°-60°)	415.2	5.7	B1/1000		
BH	(60°-80°)	296.1	4.1	B1/500		G1/500
BVH	(80°-90°)	6.7	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3
2.5°	1194.9	1173.9	1197.9	1194.9	1173.9	1160.5	1118.5	1105.1	1055.7	1019.7	988.3
5°	1440.5	1419.5	1440.5	1434.5	1404.5	1371.6	1302.7	1257.8	1169.5	1091.6	1021.2
7.5°	1644.1	1644.1	1653.1	1654.6	1618.7	1567.8	1482.4	1415.0	1290.7	1170.9	1058.6
10°	1864.2	1865.7	1885.2	1871.7	1823.8	1754.9	1647.1	1561.8	1412.0	1254.8	1094.6
12.5°	2099.3	2100.8	2106.8	2100.8	2043.9	1955.6	1825.3	1713.0	1540.8	1350.6	1144.0
15°	2334.4	2335.9	2343.4	2332.9	2270.0	2166.7	2018.5	1880.7	1677.1	1458.4	1203.9
17.5°	2554.5	2557.5	2563.5	2550.0	2484.1	2361.4	2210.1	2043.9	1822.3	1573.7	1271.3
20°	2752.2	2755.2	2759.7	2741.7	2675.8	2553.0	2389.8	2216.1	1970.5	1692.0	1344.6
22.5°	2951.3	2954.3	2961.8	2937.9	2864.5	2723.7	2563.5	2383.8	2127.8	1822.3	1430.0
25°	3205.9	3208.9	3214.9	3180.4	3080.1	2915.4	2746.2	2562.0	2298.5	1969.1	1534.8
27.5°	3578.7	3575.7	3575.7	3512.8	3340.6	3126.5	2930.4	2743.2	2482.7	2126.3	1650.1
30°	4039.9	4032.4	4027.9	3942.6	3697.0	3364.6	3119.0	2912.4	2659.3	2292.5	1774.4
32.5°	4453.2	4453.2	4444.2	4354.4	4093.8	3685.0	3319.7	3077.1	2830.0	2460.2	1903.2
35°	4697.3	4707.8	4703.3	4635.9	4445.7	4029.4	3590.7	3274.8	3009.7	2635.4	2057.4
37.5°	4730.2	4751.2	4755.7	4715.2	4614.9	4310.9	3891.7	3488.9	3207.4	2824.1	2207.1
40°	4596.9	4641.9	4641.9	4635.9	4599.9	4444.2	4144.7	3737.5	3411.0	3020.2	2358.4
42.5°	4391.8	4438.2	4432.2	4454.7	4445.7	4412.8	4287.0	3969.5	3614.7	3222.4	2496.1
45°	4123.8	4171.7	4159.7	4200.1	4218.1	4254.0	4272.0	4131.3	3815.3	3442.5	2650.4
47.5°	3694.0	3774.9	3792.9	3864.7	3939.6	4051.9	4137.3	4189.7	4002.5	3679.1	2818.1
50°	3059.1	3172.9	3208.9	3360.1	3565.3	3797.3	3935.1	4117.8	4134.3	3921.6	2999.2
52.5°	2190.7	2322.4	2377.8	2626.4	3048.7	3453.0	3701.5	3959.1	4185.2	4153.7	3195.4
55°	1416.5	1528.8	1582.7	1816.3	2377.8	3012.7	3426.0	3753.9	4156.7	4366.4	3420.0
57.5°	873.0	937.4	973.3	1173.9	1690.5	2448.2	3065.1	3565.3	4069.9	4550.5	3653.6
60°	588.5	625.9	643.9	738.2	1148.5	1829.8	2569.5	3367.6	3956.1	4674.8	3866.2
62.5°	390.8	402.8	420.8	479.2	757.7	1284.7	1973.5	3014.2	3870.7	4682.3	4023.5
65°	302.5	308.5	315.9	341.4	467.2	898.4	1388.1	2442.2	3743.4	4523.6	4072.9
67.5°	238.1	244.1	253.1	266.5	338.4	609.4	944.8	1789.4	3482.9	4275.0	3992.0
70°	187.2	191.7	197.7	209.6	263.5	441.7	624.4	1188.9	2957.3	4038.4	3737.5
72.5°	148.2	152.7	158.7	170.7	214.1	323.4	428.2	741.2	2280.5	3749.4	3247.8
75°	116.8	119.8	124.3	136.3	172.2	251.6	290.5	443.2	1549.8	3220.9	2530.6
77.5°	58.4	71.9	82.4	94.3	125.8	173.7	193.2	245.6	654.4	1653.1	1206.9
80°	34.4	41.9	44.9	52.4	82.4	104.8	104.8	98.8	206.6	634.9	492.6
82.5°	19.5	27.0	28.5	29.9	49.4	59.9	47.9	35.9	41.9	212.6	143.7
85°	6.0	9.0	10.5	12.0	16.5	18.0	16.5	15.0	12.0	21.0	13.5
87.5°	0.0	0.0	0.0	0.0	1.5	3.0	3.0	3.0	4.5	4.5	4.5
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°	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3
2.5°	970.3	950.8	913.4	879.0	846.0	822.1	799.6	778.6	763.7	751.7	750.2
5°	983.8	944.8	873.0	805.6	744.2	693.3	649.9	615.4	590.0	572.0	570.5
7.5°	1001.7	941.9	832.5	732.2	640.9	567.5	504.6	458.2	425.3	411.8	401.3
10°	1016.7	938.9	792.1	658.8	539.1	446.2	371.3	324.9	301.0	292.0	287.5
12.5°	1042.2	941.9	757.7	591.5	450.7	341.4	284.5	259.0	248.6	241.1	239.6
15°	1079.6	955.3	724.7	525.6	360.9	275.5	242.6	226.1	215.6	214.1	212.6
17.5°	1117.0	967.3	694.8	458.2	299.5	239.6	217.1	203.6	196.2	194.7	194.7
20°	1160.5	982.3	661.8	393.8	256.1	215.6	197.7	187.2	178.2	176.7	176.7
22.5°	1211.4	1003.2	630.4	336.9	227.6	197.7	182.7	170.7	163.2	161.7	161.7
25°	1280.3	1034.7	604.9	295.0	208.1	182.7	169.2	158.7	152.7	149.7	149.7
27.5°	1356.6	1078.1	587.0	269.5	194.7	170.7	157.2	148.2	142.3	139.3	139.3
30°	1442.0	1126.0	575.0	259.0	187.2	160.2	148.2	139.3	131.8	130.3	130.3
32.5°	1536.3	1181.4	567.5	260.5	185.7	152.7	139.3	130.3	124.3	121.3	121.3
35°	1641.1	1242.8	563.0	269.5	188.7	146.7	131.8	122.8	116.8	113.8	113.8
37.5°	1757.9	1314.7	563.0	278.5	196.2	145.2	124.3	115.3	110.8	107.8	107.8
40°	1867.2	1391.1	569.0	289.0	203.6	145.2	118.3	110.8	104.8	101.8	101.8
42.5°	1952.6	1434.5	573.5	299.5	208.1	143.7	112.3	104.8	100.3	97.3	97.3
45°	2049.9	1480.9	564.5	304.0	208.1	140.8	107.8	100.3	95.8	92.8	92.8
47.5°	2157.7	1537.8	563.0	307.0	203.6	134.8	103.3	95.8	92.8	89.8	89.8
50°	2267.0	1600.7	566.0	305.5	197.7	125.8	97.3	92.8	88.3	85.4	85.4
52.5°	2391.3	1666.6	572.0	302.5	184.2	115.3	92.8	88.3	83.9	80.9	79.4
55°	2529.1	1738.5	584.0	296.5	166.2	104.8	88.3	83.9	77.9	74.9	73.4
57.5°	2687.8	1826.8	597.5	284.5	146.7	95.8	83.9	77.9	68.9	64.4	62.9
60°	2839.0	1927.1	612.4	256.1	127.3	86.8	79.4	70.4	61.4	58.4	56.9
62.5°	2981.3	2026.0	619.9	205.1	107.8	79.4	74.9	64.4	55.4	52.4	50.9
65°	3072.6	2133.8	603.4	139.3	88.3	73.4	68.9	59.9	50.9	46.4	46.4
67.5°	3078.6	2184.7	546.5	91.3	71.9	65.9	62.9	53.9	44.9	41.9	40.4
70°	2927.4	2108.3	417.8	71.9	59.9	56.9	56.9	47.9	38.9	35.9	34.4
72.5°	2580.0	1867.2	266.5	58.4	50.9	47.9	47.9	40.4	34.4	29.9	28.5
75°	2036.4	1440.5	142.3	47.9	41.9	40.4	37.4	32.9	28.5	25.5	24.0
77.5°	935.9	634.9	65.9	34.4	31.4	31.4	28.5	24.0	22.5	19.5	19.5
80°	369.9	215.6	32.9	22.5	21.0	21.0	21.0	16.5	16.5	13.5	12.0
82.5°	101.8	44.9	16.5	13.5	13.5	13.5	12.0	10.5	10.5	9.0	9.0
85°	10.5	7.5	7.5	7.5	7.5	6.0	6.0	4.5	3.0	3.0	3.0
87.5°	4.5	4.5	4.5	4.5	4.5	3.0	1.5	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)