

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: P835874

Luminaire Tested: **ARCH3-110-722-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835874
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: ARCH3-110-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 880mA 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: 10467 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 111.9
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



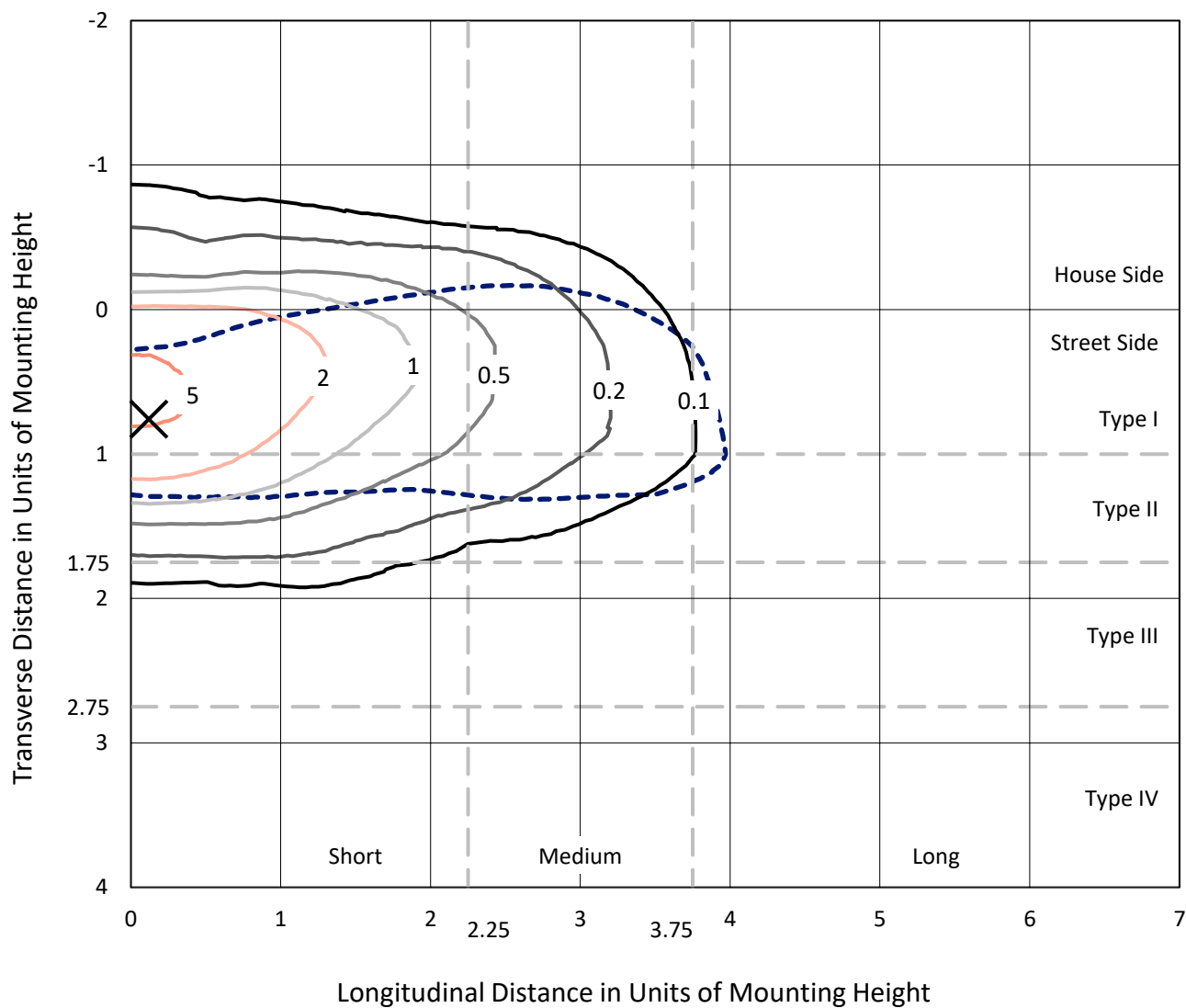
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

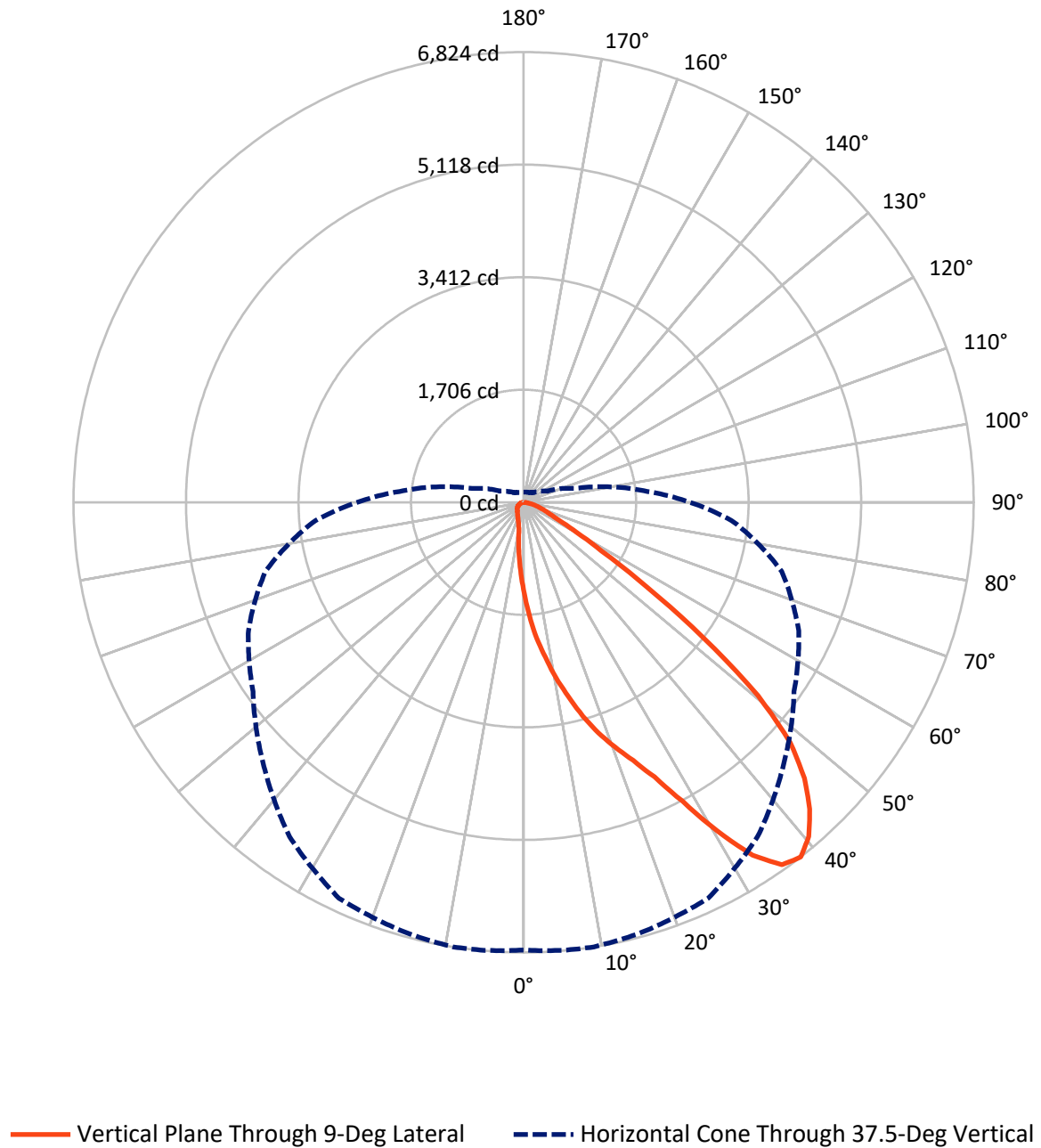


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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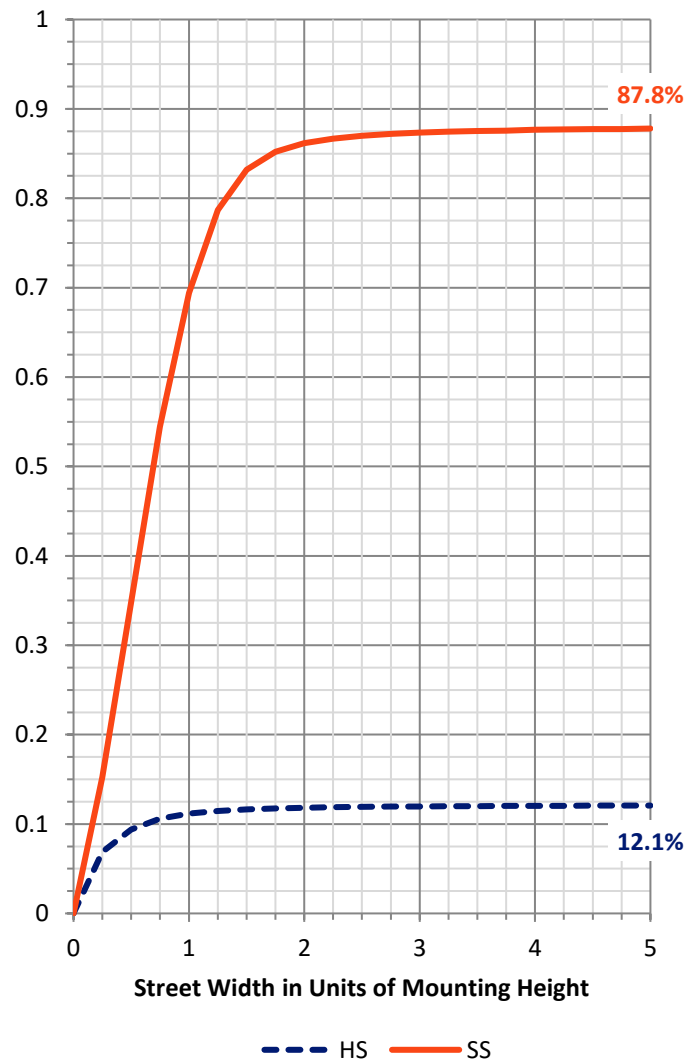
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1273.0	0.0	1273.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	9194.0	0.0	9194.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	10467.0	0.0	10467.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.1	1.3
10°-20°	483.4	4.6
20°-30°	993.2	9.5
30°-40°	1755.6	16.8
40°-50°	2332.2	22.3
50°-60°	2211.9	21.1
60°-70°	1687.5	16.1
70°-80°	818.1	7.8
80°-90°	46.0	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°	10467.0	100.0
0°-180°	10467.0	100.0

Coefficient of Utilization



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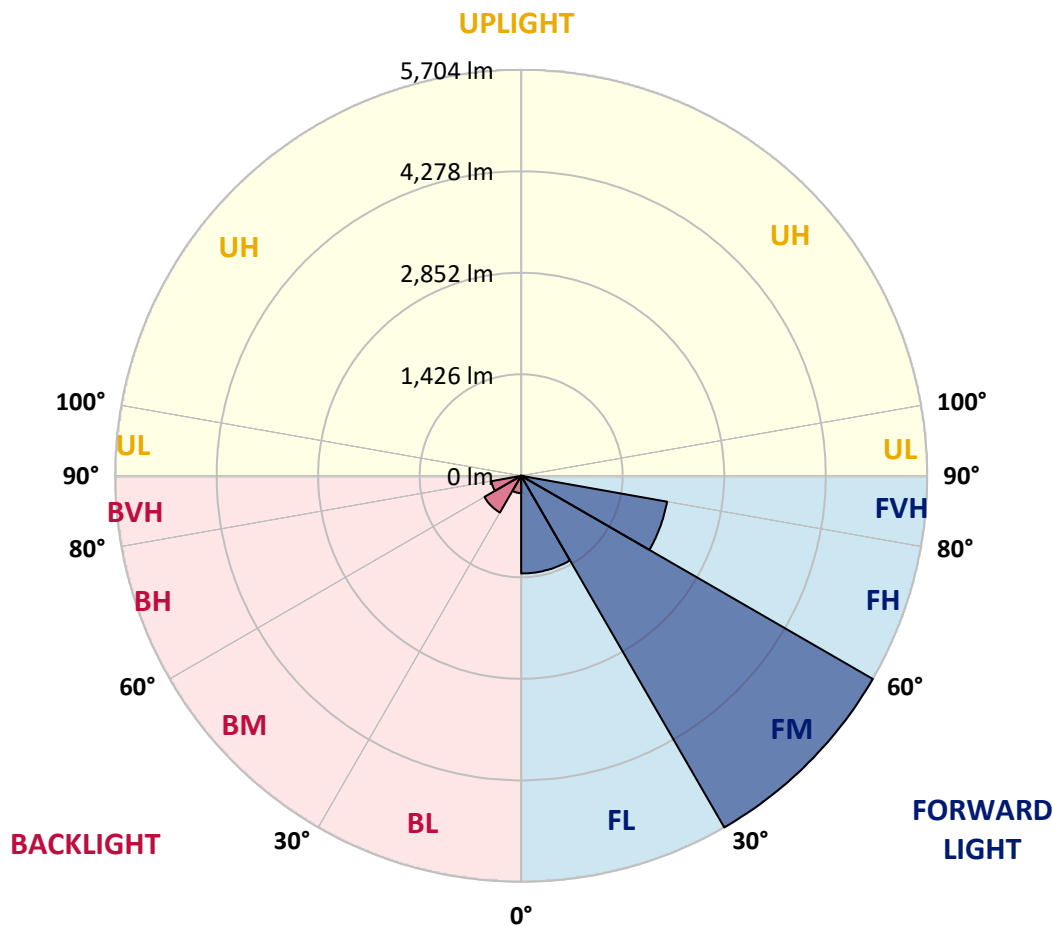
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1372.7	13.1			
FM	(30°-60°)	5704.0	54.5			
FH	(60°-80°)	2080.8	19.9			G2/5000
FVH	(80°-90°)	36.5	0.3			G1/100
BL	(0°-30°)	242.9	2.3	B1/500		
BM	(30°-60°)	595.7	5.7	B1/1000		
BH	(60°-80°)	424.8	4.1	B1/500		G1/500
BVH	(80°-90°)	9.6	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6
2.5°	1714.5	1684.4	1718.8	1714.5	1684.4	1665.1	1604.9	1585.6	1514.7	1463.1	1418.0
5°	2066.8	2036.7	2066.8	2058.2	2015.3	1968.0	1869.2	1804.7	1678.0	1566.2	1465.3
7.5°	2359.0	2359.0	2371.9	2374.1	2322.5	2249.4	2127.0	2030.3	1852.0	1680.1	1519.0
10°	2674.8	2677.0	2704.9	2685.6	2616.8	2518.0	2363.3	2240.8	2026.0	1800.4	1570.5
12.5°	3012.1	3014.3	3022.9	3014.3	2932.7	2805.9	2619.0	2457.8	2210.8	1937.9	1641.4
15°	3349.5	3351.6	3362.3	3347.3	3257.1	3108.8	2896.1	2698.5	2406.3	2092.6	1727.4
17.5°	3665.3	3669.6	3678.2	3658.8	3564.3	3388.1	3171.1	2932.7	2614.7	2258.0	1824.0
20°	3948.9	3953.2	3959.6	3933.8	3839.3	3663.1	3428.9	3179.7	2827.4	2427.8	1929.3
22.5°	4234.6	4238.9	4249.7	4215.3	4110.0	3908.1	3678.2	3420.4	3053.0	2614.7	2051.8
25°	4599.9	4604.2	4612.8	4563.3	4419.4	4183.1	3940.3	3676.0	3297.9	2825.2	2202.2
27.5°	5134.8	5130.5	5130.5	5040.3	4793.2	4486.0	4204.5	3936.0	3562.2	3050.8	2367.6
30°	5796.6	5785.8	5779.4	5656.9	5304.6	4827.6	4475.3	4178.8	3815.7	3289.3	2545.9
32.5°	6389.5	6389.5	6376.6	6247.7	5873.9	5287.4	4763.1	4415.1	4060.6	3529.9	2730.7
35°	6739.7	6754.8	6748.3	6651.6	6378.8	5781.5	5152.0	4698.7	4318.4	3781.3	2952.0
37.5°	6787.0	6817.1	6823.5	6765.5	6621.6	6185.4	5583.9	5005.9	4602.0	4052.0	3166.8
40°	6595.8	6660.2	6660.2	6651.6	6600.1	6376.6	5946.9	5362.6	4894.2	4333.5	3383.8
42.5°	6301.4	6368.0	6359.5	6391.7	6378.8	6331.5	6151.1	5695.6	5186.4	4623.5	3581.5
45°	5916.9	5985.6	5968.4	6026.4	6052.2	6103.8	6129.6	5927.6	5474.3	4939.3	3802.8
47.5°	5300.3	5416.3	5442.1	5545.2	5652.6	5813.7	5936.2	6011.4	5742.8	5278.8	4043.4
50°	4389.3	4552.6	4604.2	4821.2	5115.5	5448.5	5646.2	5908.3	5931.9	5626.8	4303.4
52.5°	3143.2	3332.3	3411.8	3768.4	4374.3	4954.4	5311.0	5680.5	6005.0	5959.8	4584.8
55°	2032.4	2193.6	2270.9	2606.1	3411.8	4322.7	4915.7	5386.2	5964.1	6264.9	4907.1
57.5°	1252.6	1344.9	1396.5	1684.4	2425.6	3512.7	4397.9	5115.5	5839.5	6529.2	5242.3
60°	844.3	898.1	923.8	1059.2	1647.9	2625.4	3686.8	4831.9	5676.2	6707.5	5547.3
62.5°	560.7	577.9	603.7	687.5	1087.1	1843.4	2831.7	4324.9	5553.8	6718.2	5772.9
65°	434.0	442.6	453.3	489.8	670.3	1289.1	1991.6	3504.1	5371.2	6490.5	5843.8
67.5°	341.6	350.2	363.1	382.4	485.6	874.4	1355.7	2567.4	4997.3	6133.9	5727.8
70°	268.6	275.0	283.6	300.8	378.1	633.8	895.9	1705.9	4243.2	5794.4	5362.6
72.5°	212.7	219.1	227.7	244.9	307.2	464.1	614.5	1063.5	3272.1	5379.8	4660.0
75°	167.6	171.9	178.3	195.5	247.1	360.9	416.8	635.9	2223.7	4621.3	3630.9
77.5°	83.8	103.1	118.2	135.4	180.5	249.2	277.2	352.3	938.9	2371.9	1731.7
80°	49.4	60.2	64.5	75.2	118.2	150.4	150.4	141.8	296.5	910.9	706.8
82.5°	27.9	38.7	40.8	43.0	70.9	85.9	68.8	51.6	60.2	305.1	206.3
85°	8.6	12.9	15.0	17.2	23.6	25.8	23.6	21.5	17.2	30.1	19.3
87.5°	0.0	0.0	0.0	0.0	2.1	4.3	4.3	4.3	6.4	6.4	6.4
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°	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6
2.5°	1392.2	1364.3	1310.6	1261.1	1213.9	1179.5	1147.3	1117.2	1095.7	1078.5	1076.4
5°	1411.5	1355.7	1252.6	1155.9	1067.8	994.7	932.4	883.0	846.5	820.7	818.6
7.5°	1437.3	1351.4	1194.5	1050.6	919.5	814.3	724.0	657.4	610.2	590.8	575.8
10°	1458.8	1347.1	1136.5	945.3	773.4	640.2	532.8	466.2	431.8	419.0	412.5
12.5°	1495.3	1351.4	1087.1	848.6	646.7	489.8	408.2	371.7	356.6	345.9	343.8
15°	1549.0	1370.7	1039.9	754.1	517.8	395.3	348.1	324.4	309.4	307.2	305.1
17.5°	1602.8	1387.9	996.9	657.4	429.7	343.8	311.5	292.2	281.4	279.3	279.3
20°	1665.1	1409.4	949.6	565.0	367.4	309.4	283.6	268.6	255.7	253.5	253.5
22.5°	1738.1	1439.5	904.5	483.4	326.6	283.6	262.1	244.9	234.2	232.0	232.0
25°	1836.9	1484.6	868.0	423.2	298.6	262.1	242.8	227.7	219.1	214.8	214.8
27.5°	1946.5	1546.9	842.2	386.7	279.3	244.9	225.6	212.7	204.1	199.8	199.8
30°	2069.0	1615.6	825.0	371.7	268.6	229.9	212.7	199.8	189.1	186.9	186.9
32.5°	2204.3	1695.1	814.3	373.8	266.4	219.1	199.8	186.9	178.3	174.0	174.0
35°	2354.7	1783.2	807.8	386.7	270.7	210.5	189.1	176.2	167.6	163.3	163.3
37.5°	2522.3	1886.4	807.8	399.6	281.4	208.4	178.3	165.4	159.0	154.7	154.7
40°	2679.1	1995.9	816.4	414.7	292.2	208.4	169.7	159.0	150.4	146.1	146.1
42.5°	2801.6	2058.2	822.9	429.7	298.6	206.3	161.1	150.4	143.9	139.7	139.7
45°	2941.2	2124.8	810.0	436.1	298.6	202.0	154.7	143.9	137.5	133.2	133.2
47.5°	3095.9	2206.5	807.8	440.4	292.2	193.4	148.2	137.5	133.2	128.9	128.9
50°	3252.8	2296.7	812.1	438.3	283.6	180.5	139.7	133.2	126.8	122.5	122.5
52.5°	3431.1	2391.2	820.7	434.0	264.3	165.4	133.2	126.8	120.3	116.0	113.9
55°	3628.8	2494.4	837.9	425.4	238.5	150.4	126.8	120.3	111.7	107.4	105.3
57.5°	3856.5	2621.1	857.2	408.2	210.5	137.5	120.3	111.7	98.8	92.4	90.2
60°	4073.5	2765.1	878.7	367.4	182.6	124.6	113.9	101.0	88.1	83.8	81.6
62.5°	4277.6	2906.9	889.5	294.3	154.7	113.9	107.4	92.4	79.5	75.2	73.0
65°	4408.6	3061.6	865.8	199.8	126.8	105.3	98.8	85.9	73.0	66.6	66.6
67.5°	4417.2	3134.6	784.2	131.1	103.1	94.5	90.2	77.3	64.5	60.2	58.0
70°	4200.2	3025.0	599.4	103.1	85.9	81.6	81.6	68.8	55.9	51.6	49.4
72.5°	3701.8	2679.1	382.4	83.8	73.0	68.8	68.8	58.0	49.4	43.0	40.8
75°	2921.9	2066.8	204.1	68.8	60.2	58.0	53.7	47.3	40.8	36.5	34.4
77.5°	1342.8	910.9	94.5	49.4	45.1	45.1	40.8	34.4	32.2	27.9	27.9
80°	530.7	309.4	47.3	32.2	30.1	30.1	30.1	23.6	23.6	19.3	17.2
82.5°	146.1	64.5	23.6	19.3	19.3	19.3	17.2	15.0	15.0	12.9	12.9
85°	15.0	10.7	10.7	10.7	10.7	8.6	8.6	6.4	4.3	4.3	4.3
87.5°	6.4	6.4	6.4	6.4	6.4	4.3	2.1	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)