

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: P799940

Luminaire Tested: **ARCH2-60-750-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799940
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-60-750-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 485mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6253 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 63.8
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

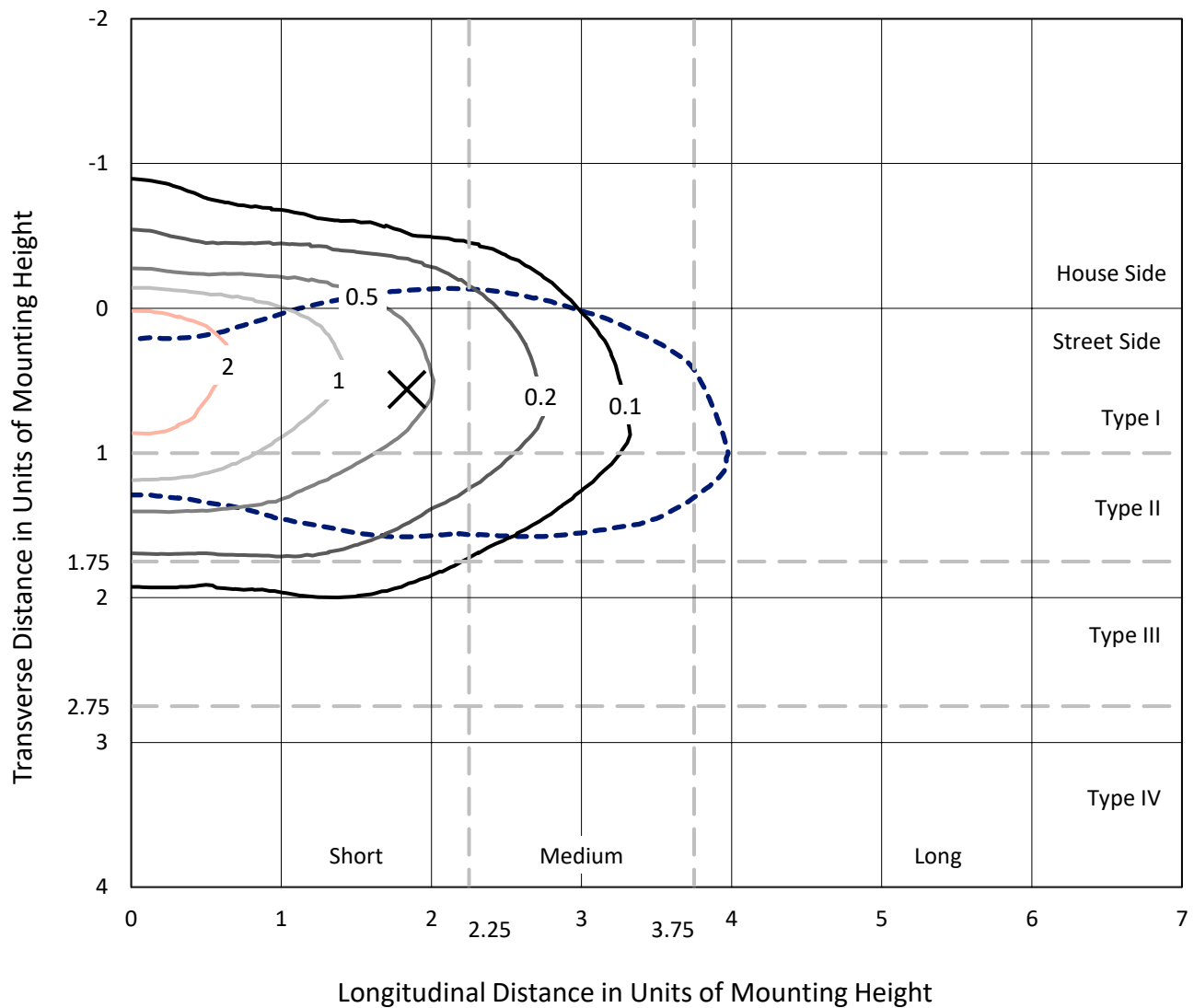


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Iso-Footcandle Lines of Horizontal Illumination

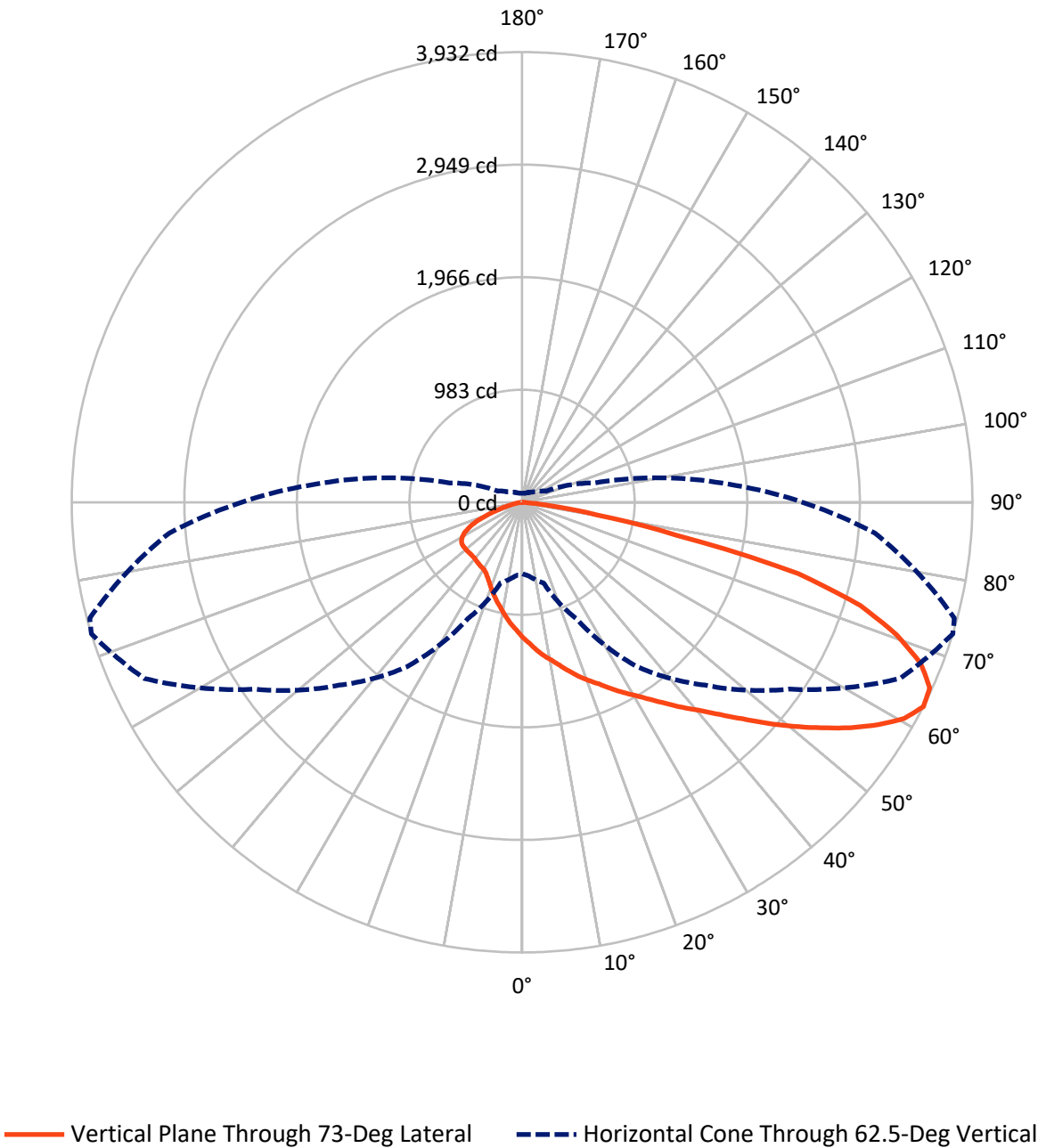
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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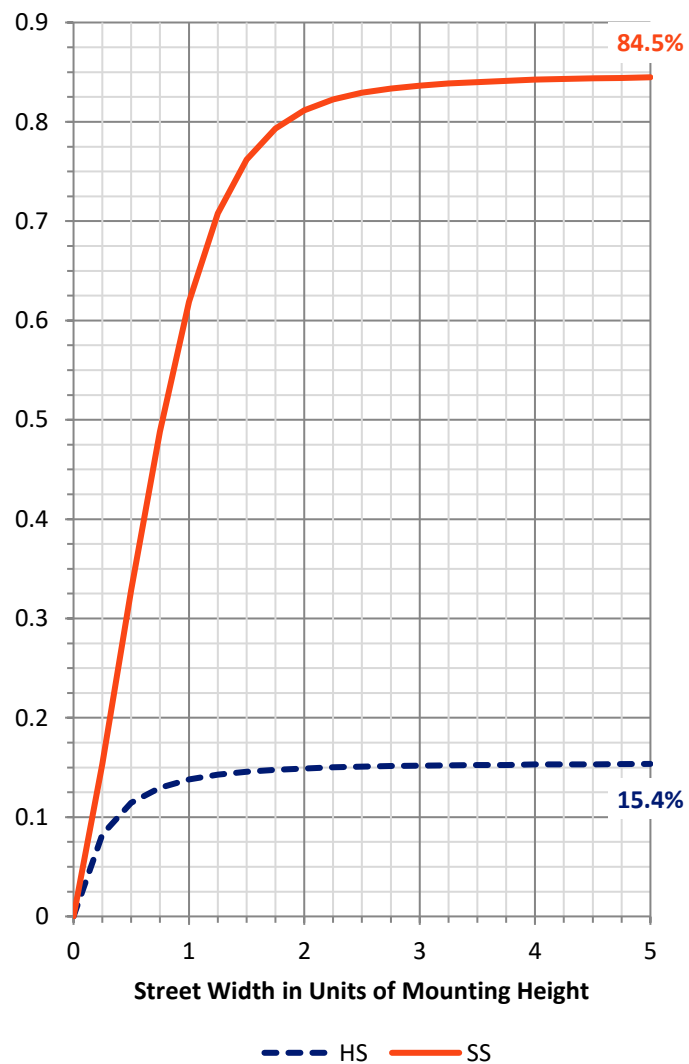
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	969.3	0.0	969.3
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	5283.7	0.0	5283.7
	% Fixture	84.5	0.0	84.5
Total	Lumens	6253.0	0.0	6253.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	1.8
10°-20°	345.2	5.5
20°-30°	574.5	9.2
30°-40°	866.9	13.9
40°-50°	1211.7	19.4
50°-60°	1338.3	21.4
60°-70°	1165.9	18.6
70°-80°	588.9	9.4
80°-90°	47.3	0.8
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°	6253.0	100.0
0°-180°	6253.0	100.0

Coefficient of Utilization



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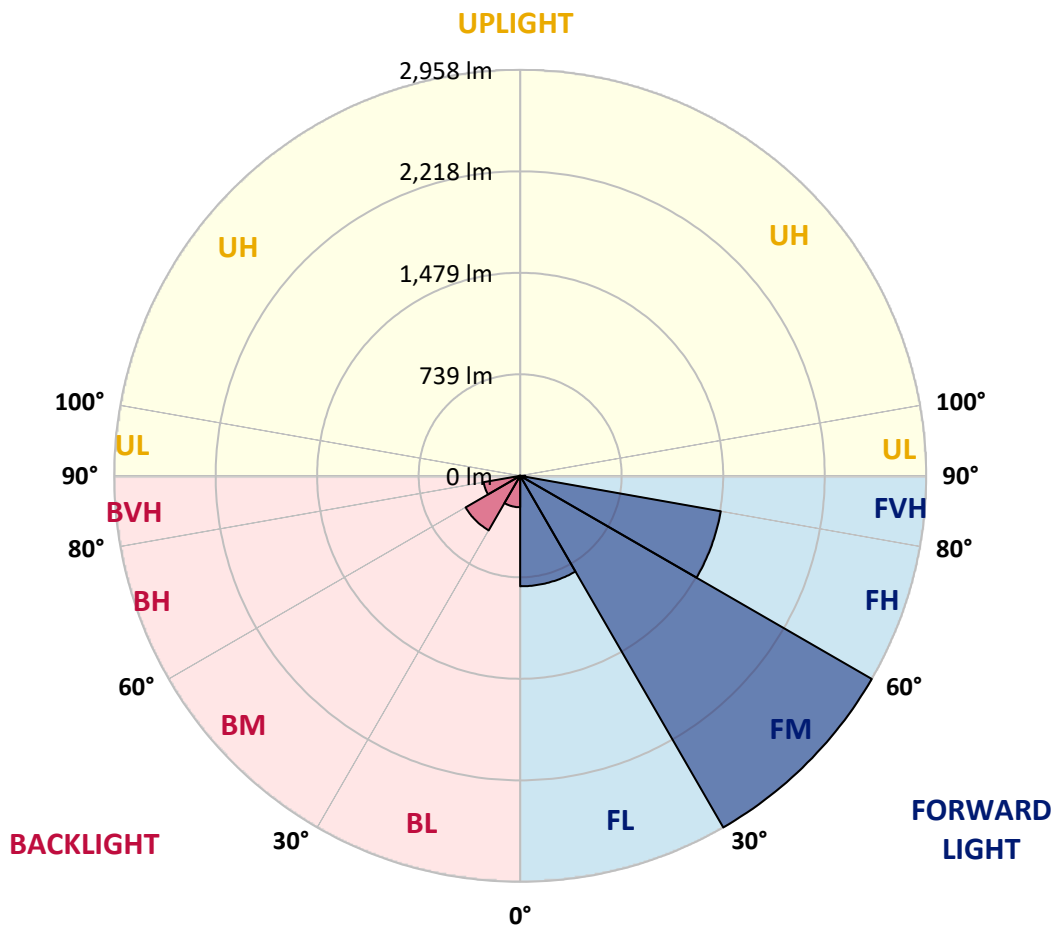
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	805.0	12.9			
FM	(30°-60°)	2957.9	47.3			
FH	(60°-80°)	1484.3	23.7			G1/1800
FVH	(80°-90°)	36.6	0.6			G1/100
BL	(0°-30°)	229.1	3.7	B1/500		
BM	(30°-60°)	459.0	7.3	B1/1000		
BH	(60°-80°)	270.6	4.3	B1/500		G1/500
BVH	(80°-90°)	10.7	0.2			G1/100
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°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0
2.5°	1347.5	1362.5	1354.3	1359.8	1332.5	1314.8	1294.4	1254.9	1233.1	1230.3	1204.5
5°	1545.1	1561.4	1547.8	1543.7	1496.0	1455.2	1408.8	1339.3	1293.0	1284.8	1227.6
7.5°	1742.6	1757.6	1741.3	1729.0	1665.0	1592.8	1524.6	1422.5	1350.2	1336.6	1246.7
10°	1881.6	1895.2	1883.0	1870.7	1804.0	1730.4	1633.6	1500.1	1402.0	1380.2	1259.0
12.5°	1986.5	1994.7	1989.3	1978.4	1915.7	1836.7	1744.0	1587.3	1460.6	1433.4	1278.0
15°	2072.4	2086.0	2079.2	2071.0	2011.1	1932.0	1843.5	1678.6	1528.7	1494.7	1306.6
17.5°	2129.6	2139.1	2140.5	2140.5	2087.4	2009.7	1923.9	1761.7	1596.9	1553.3	1333.9
20°	2155.5	2166.4	2173.2	2184.1	2140.5	2073.7	1986.5	1832.6	1660.9	1611.8	1359.8
22.5°	2167.7	2177.3	2195.0	2219.5	2184.1	2128.2	2047.8	1898.0	1724.9	1673.2	1389.8
25°	2177.3	2189.5	2215.4	2261.8	2237.2	2189.5	2120.1	1972.9	1801.2	1748.1	1433.4
27.5°	2203.2	2218.2	2242.7	2298.5	2268.6	2245.4	2196.4	2053.3	1881.6	1827.1	1486.5
30°	2293.1	2305.4	2304.0	2339.4	2302.6	2295.8	2261.8	2131.0	1959.3	1904.8	1549.2
32.5°	2456.6	2468.9	2438.9	2425.3	2344.9	2346.2	2332.6	2214.1	2051.9	1996.1	1621.4
35°	2632.4	2646.0	2606.5	2583.3	2448.4	2408.9	2415.7	2317.6	2155.5	2099.6	1711.3
37.5°	2789.1	2805.4	2771.3	2737.3	2601.0	2509.7	2508.4	2433.4	2274.0	2216.8	1810.8
40°	2874.9	2894.0	2914.4	2895.3	2752.3	2651.4	2607.8	2552.0	2391.2	2332.6	1918.4
42.5°	2915.8	2968.9	3005.7	2993.4	2876.3	2774.1	2722.3	2676.0	2534.3	2477.0	2046.5
45°	2801.3	2802.7	2880.3	2947.1	2925.3	2857.2	2847.6	2814.9	2697.8	2643.3	2190.9
47.5°	2658.3	2647.4	2701.9	2820.4	2881.7	2899.4	2955.3	2968.9	2884.4	2829.9	2338.1
50°	2314.9	2321.7	2498.8	2669.2	2789.1	2903.5	3031.6	3127.0	3076.5	3024.8	2493.4
52.5°	1883.0	1899.3	2102.3	2477.0	2666.4	2862.6	3076.5	3285.0	3272.7	3223.7	2648.7
55°	1509.7	1535.5	1750.8	2156.8	2509.7	2771.3	3095.6	3429.4	3475.8	3430.8	2801.3
57.5°	1154.0	1181.3	1362.5	1779.4	2309.4	2622.8	3082.0	3556.1	3665.1	3636.5	2941.7
60°	869.3	896.5	1012.3	1442.9	2058.7	2456.6	3013.9	3639.3	3835.5	3805.5	3043.8
62.5°	622.7	644.5	730.3	1122.7	1753.5	2259.0	2846.3	3640.6	3932.2	3907.7	3092.9
65°	448.3	448.3	517.8	801.2	1467.4	2022.0	2592.9	3473.0	3911.8	3904.9	3058.8
67.5°	322.9	325.6	381.5	560.0	1170.4	1734.5	2264.5	3174.6	3753.7	3787.8	2936.2
70°	228.9	235.7	261.6	391.0	884.3	1369.3	1913.0	2783.6	3468.9	3528.9	2699.1
72.5°	177.1	181.2	198.9	272.5	645.8	1017.8	1524.6	2347.6	3088.8	3156.9	2376.2
75°	136.3	140.3	154.0	200.3	463.3	714.0	1083.2	1821.7	2490.7	2611.9	1908.9
77.5°	99.5	104.9	114.5	145.8	269.8	453.7	656.7	1024.6	1374.8	1432.0	1000.1
80°	46.3	53.1	66.8	94.0	145.8	213.9	233.0	395.1	660.8	690.8	542.3
82.5°	25.9	32.7	38.2	57.2	73.6	76.3	79.0	99.5	249.3	275.2	227.5
85°	12.3	16.4	17.7	24.5	24.5	21.8	25.9	19.1	40.9	49.1	47.7
87.5°	0.0	1.4	2.7	6.8	5.5	4.1	4.1	4.1	4.1	5.5	4.1
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°	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0
2.5°	1192.2	1174.5	1133.6	1098.2	1075.0	1054.6	1027.3	1015.1	993.3	997.4	985.1
5°	1199.0	1166.3	1094.1	1027.3	978.3	934.7	887.0	859.7	829.8	827.0	817.5
7.5°	1203.1	1152.7	1049.1	955.1	880.2	813.4	749.4	714.0	677.2	669.0	660.8
10°	1199.0	1132.2	1002.8	880.2	780.7	697.6	625.4	580.4	542.3	532.7	524.6
12.5°	1203.1	1121.3	959.2	810.7	692.2	598.1	516.4	470.1	434.6	425.1	419.7
15°	1212.6	1114.5	922.4	748.0	613.1	508.2	427.8	388.3	359.7	350.2	347.4
17.5°	1220.8	1107.7	882.9	686.7	534.1	429.2	359.7	327.0	302.5	292.9	290.2
20°	1231.7	1098.2	843.4	628.1	464.6	366.5	305.2	276.6	257.5	250.7	249.3
22.5°	1241.2	1091.4	806.6	569.5	400.6	316.1	264.3	241.2	227.5	220.7	220.7
25°	1265.8	1094.1	775.3	515.0	352.9	276.6	233.0	215.3	204.4	200.3	200.3
27.5°	1294.4	1105.0	750.7	468.7	312.0	246.6	211.2	196.2	190.8	185.3	186.7
30°	1335.3	1126.8	734.4	430.6	282.0	223.5	193.5	182.6	177.1	175.8	175.8
32.5°	1387.0	1162.2	733.0	406.0	260.2	205.7	181.2	171.7	169.0	167.6	167.6
35°	1448.3	1193.6	724.9	395.1	246.6	193.5	171.7	164.9	163.5	163.5	163.5
37.5°	1521.9	1245.3	719.4	380.1	239.8	186.7	164.9	159.4	159.4	159.4	159.4
40°	1598.2	1287.6	711.2	366.5	237.1	182.6	160.8	154.0	154.0	154.0	154.0
42.5°	1689.5	1348.9	708.5	359.7	233.0	179.9	155.3	147.2	148.5	148.5	149.9
45°	1799.9	1418.4	707.1	352.9	231.6	177.1	149.9	140.3	141.7	140.3	140.3
47.5°	1911.6	1498.8	711.2	348.8	230.3	174.4	145.8	133.5	133.5	132.2	132.2
50°	2028.8	1572.3	714.0	344.7	227.5	169.0	139.0	128.1	125.4	122.6	124.0
52.5°	2139.1	1640.5	715.3	337.9	219.4	160.8	133.5	121.3	117.2	113.1	114.5
55°	2249.5	1705.9	718.0	329.7	208.5	152.6	126.7	114.5	109.0	103.6	103.6
57.5°	2349.0	1763.1	711.2	309.3	196.2	144.4	119.9	106.3	98.1	92.7	92.7
60°	2417.1	1804.0	690.8	279.3	179.9	134.9	113.1	98.1	88.6	84.5	84.5
62.5°	2449.8	1810.8	654.0	230.3	159.4	125.4	104.9	89.9	81.8	79.0	79.0
65°	2418.5	1780.8	596.8	173.0	137.6	114.5	96.7	83.1	74.9	68.1	68.1
67.5°	2309.4	1696.3	517.8	130.8	117.2	103.6	88.6	76.3	66.8	61.3	61.3
70°	2090.1	1520.6	400.6	104.9	99.5	89.9	80.4	68.1	60.0	53.1	53.1
72.5°	1802.6	1288.9	282.0	84.5	84.5	76.3	68.1	60.0	51.8	46.3	46.3
75°	1382.9	953.8	189.4	68.1	69.5	64.0	55.9	49.1	43.6	39.5	39.5
77.5°	754.8	471.4	115.8	50.4	51.8	49.1	43.6	39.5	36.8	32.7	32.7
80°	366.5	207.1	66.8	35.4	36.8	35.4	32.7	28.6	28.6	25.9	25.9
82.5°	154.0	77.7	35.4	24.5	24.5	21.8	20.4	20.4	20.4	19.1	19.1
85°	38.2	15.0	15.0	13.6	13.6	13.6	12.3	12.3	12.3	9.5	10.9
87.5°	5.5	5.5	5.5	5.5	5.5	5.5	4.1	1.4	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)