

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: P799988

Luminaire Tested: **ARCH2-70-722-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799988
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: ARCH2-70-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 555mA 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: 5837 lumens
Efficiency: N/A
Efficacy: 79.3 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): 73.6
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

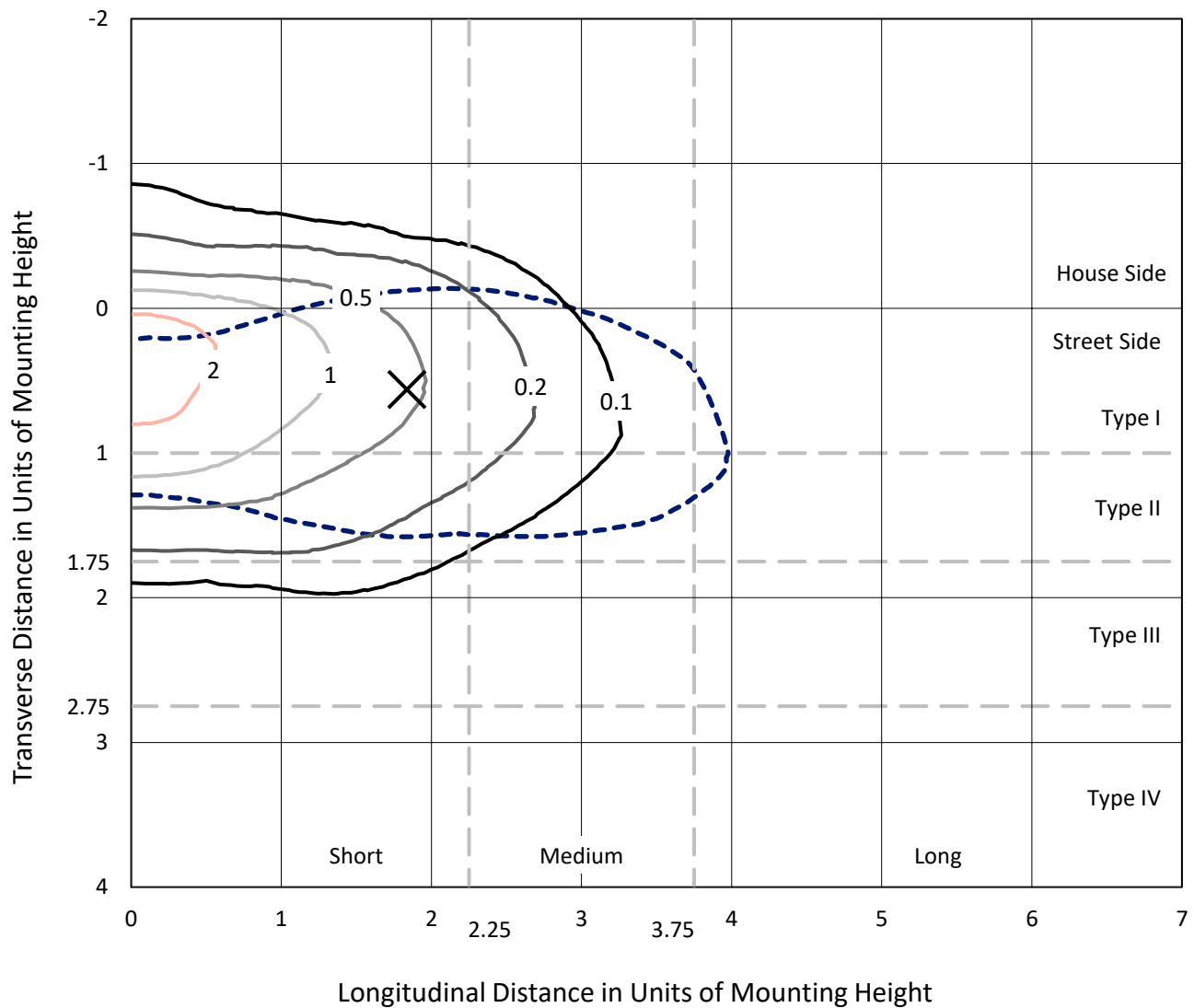


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Iso-Footcandle Lines of Horizontal Illumination

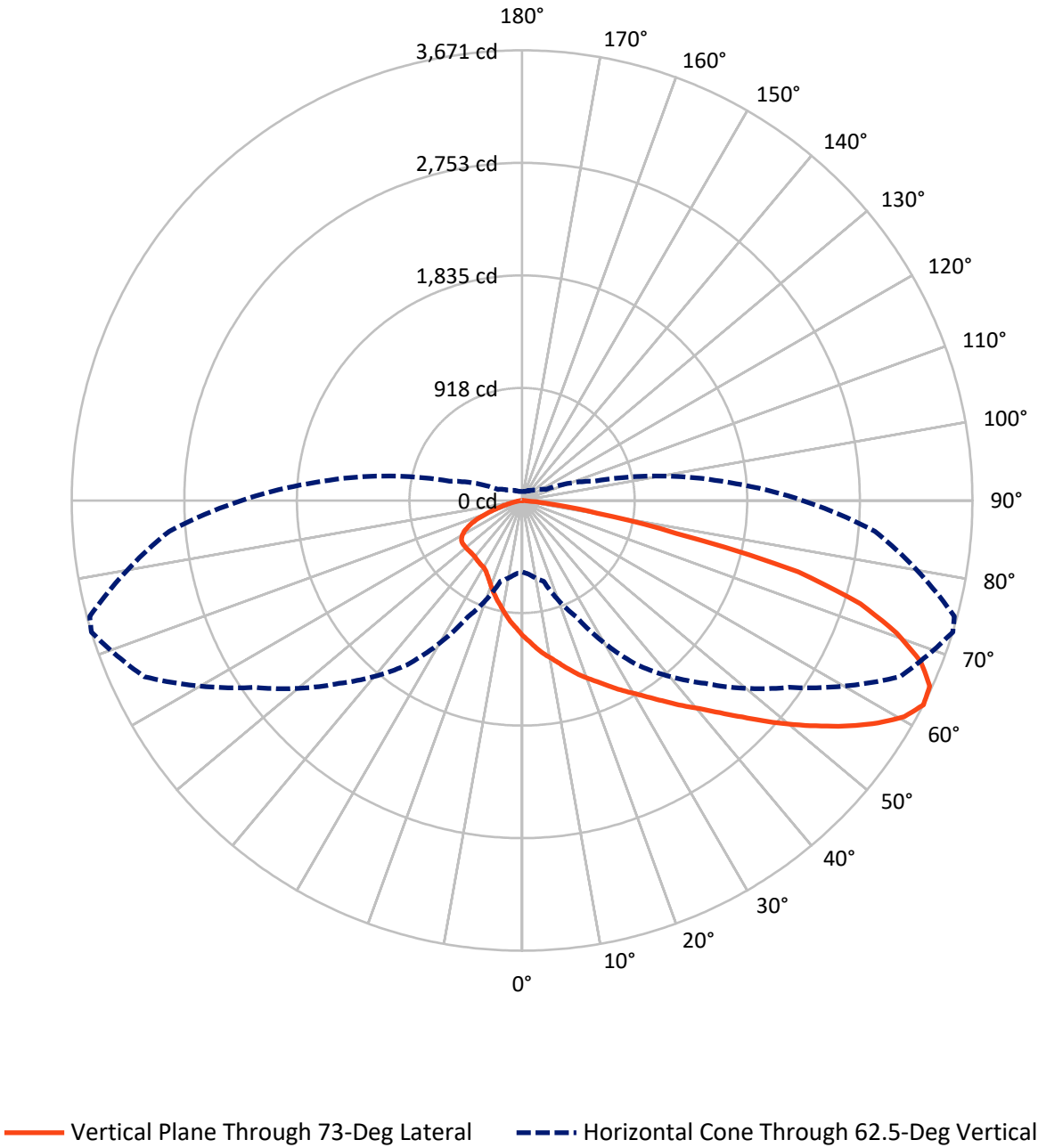
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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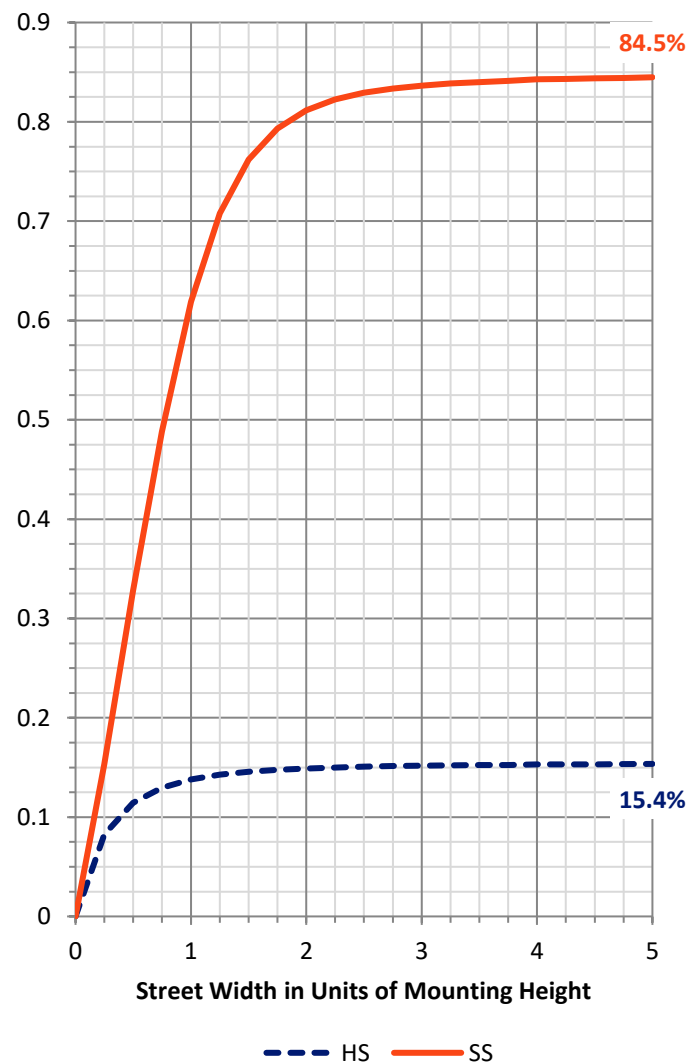
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	904.8	0.0	904.8
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	4932.2	0.0	4932.2
	% Fixture	84.5	0.0	84.5
Total	Lumens	5837.0	0.0	5837.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	1.8
10°-20°	322.2	5.5
20°-30°	536.3	9.2
30°-40°	809.2	13.9
40°-50°	1131.0	19.4
50°-60°	1249.3	21.4
60°-70°	1088.3	18.6
70°-80°	549.7	9.4
80°-90°	44.1	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°	5837.0	100.0
0°-180°	5837.0	100.0

Coefficient of Utilization



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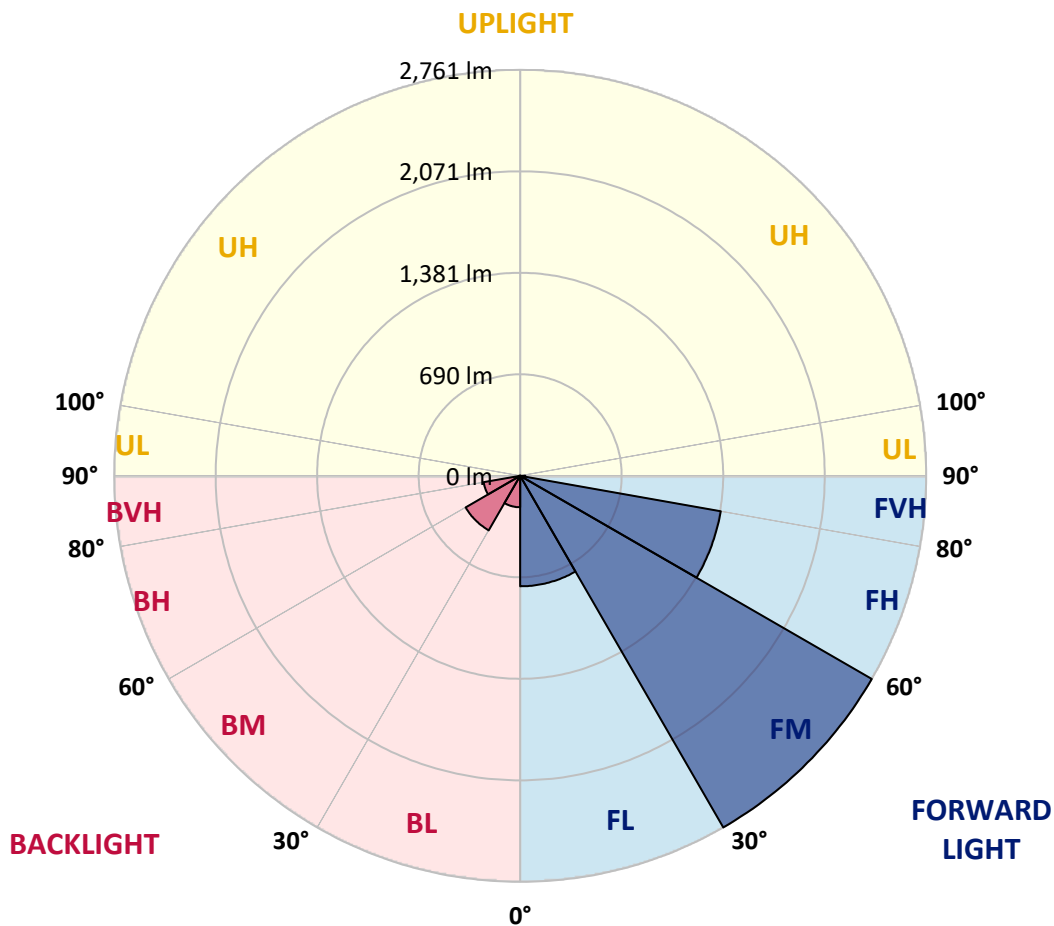
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	751.4	12.9			
FM	(30°-60°)	2761.1	47.3			
FH	(60°-80°)	1385.5	23.7			G1/1800
FVH	(80°-90°)	34.1	0.6			G1/100
BL	(0°-30°)	213.9	3.7	B1/500		
BM	(30°-60°)	428.4	7.3	B1/1000		
BH	(60°-80°)	252.5	4.3	B1/500		G1/500
BVH	(80°-90°)	10.0	0.2			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°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1105.2	1105.2	1105.2	1105.2	1105.2	1105.2	1105.2	1105.2	1105.2	1105.2	1105.2
2.5°	1257.9	1271.9	1264.2	1269.3	1243.9	1227.3	1208.3	1171.4	1151.0	1148.5	1124.3
5°	1442.3	1457.6	1444.8	1441.0	1396.5	1358.3	1315.1	1250.2	1207.0	1199.4	1145.9
7.5°	1626.7	1640.7	1625.4	1614.0	1554.2	1486.8	1423.2	1327.8	1260.4	1247.7	1163.8
10°	1756.4	1769.2	1757.7	1746.3	1683.9	1615.3	1525.0	1400.3	1308.7	1288.4	1175.2
12.5°	1854.4	1862.0	1856.9	1846.7	1788.2	1714.5	1628.0	1481.7	1363.4	1338.0	1193.0
15°	1934.5	1947.2	1940.9	1933.2	1877.3	1803.5	1720.8	1566.9	1427.0	1395.2	1219.7
17.5°	1987.9	1996.8	1998.1	1998.1	1948.5	1876.0	1795.9	1644.5	1490.6	1449.9	1245.2
20°	2012.1	2022.3	2028.6	2038.8	1998.1	1935.8	1854.4	1710.7	1550.4	1504.6	1269.3
22.5°	2023.5	2032.4	2049.0	2071.9	2038.8	1986.6	1911.6	1771.7	1610.2	1561.8	1297.3
25°	2032.4	2043.9	2068.0	2111.3	2088.4	2043.9	1979.0	1841.7	1681.4	1631.8	1338.0
27.5°	2056.6	2070.6	2093.5	2145.6	2117.7	2096.0	2050.2	1916.7	1756.4	1705.6	1387.6
30°	2140.5	2152.0	2150.7	2183.8	2149.4	2143.1	2111.3	1989.2	1828.9	1778.1	1446.1
32.5°	2293.2	2304.6	2276.6	2263.9	2188.9	2190.1	2177.4	2066.8	1915.4	1863.3	1513.5
35°	2457.2	2470.0	2433.1	2411.5	2285.5	2248.7	2255.0	2163.4	2012.1	1959.9	1597.5
37.5°	2603.5	2618.8	2587.0	2555.2	2428.0	2342.8	2341.5	2271.5	2122.7	2069.3	1690.3
40°	2683.6	2701.4	2720.5	2702.7	2569.2	2475.0	2434.3	2382.2	2232.1	2177.4	1790.8
42.5°	2721.8	2771.4	2805.7	2794.3	2684.9	2589.5	2541.2	2497.9	2365.7	2312.2	1910.3
45°	2614.9	2616.2	2688.7	2751.0	2730.7	2667.1	2658.2	2627.7	2518.3	2467.4	2045.2
47.5°	2481.4	2471.2	2522.1	2632.8	2690.0	2706.5	2758.7	2771.4	2692.5	2641.7	2182.5
50°	2160.9	2167.3	2332.6	2491.6	2603.5	2710.3	2829.9	2918.9	2871.9	2823.5	2327.5
52.5°	1757.7	1773.0	1962.5	2312.2	2489.0	2672.2	2871.9	3066.5	3055.0	3009.2	2472.5
55°	1409.2	1433.4	1634.3	2013.4	2342.8	2587.0	2889.7	3201.3	3244.5	3202.5	2614.9
57.5°	1077.3	1102.7	1271.9	1661.1	2155.8	2448.3	2877.0	3319.6	3421.3	3394.6	2746.0
60°	811.4	836.9	945.0	1346.9	1921.8	2293.2	2813.4	3397.1	3580.3	3552.3	2841.3
62.5°	581.2	601.6	681.7	1048.0	1636.9	2108.7	2656.9	3398.4	3670.6	3647.7	2887.1
65°	418.4	418.4	483.3	747.9	1369.8	1887.4	2420.4	3242.0	3651.5	3645.2	2855.3
67.5°	301.4	304.0	356.1	522.7	1092.5	1619.1	2113.8	2963.4	3504.0	3535.8	2740.9
70°	213.7	220.0	244.2	365.0	825.4	1278.2	1785.7	2598.4	3238.2	3294.1	2519.6
72.5°	165.3	169.2	185.7	254.4	602.9	950.1	1423.2	2191.4	2883.3	2946.9	2218.1
75°	127.2	131.0	143.7	187.0	432.4	666.5	1011.1	1700.5	2325.0	2438.2	1781.9
77.5°	92.8	97.9	106.8	136.1	251.8	423.5	613.0	956.4	1283.3	1336.7	933.5
80°	43.2	49.6	62.3	87.8	136.1	199.7	217.5	368.8	616.9	644.8	506.2
82.5°	24.2	30.5	35.6	53.4	68.7	71.2	73.8	92.8	232.8	256.9	212.4
85°	11.4	15.3	16.5	22.9	22.9	20.3	24.2	17.8	38.2	45.8	44.5
87.5°	0.0	1.3	2.5	6.4	5.1	3.8	3.8	3.8	3.8	5.1	3.8
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°	1105.2	1105.2	1105.2	1105.2	1105.2	1105.2	1105.2	1105.2	1105.2	1105.2	1105.2
2.5°	1112.9	1096.3	1058.2	1025.1	1003.5	984.4	959.0	947.5	927.2	931.0	919.6
5°	1119.2	1088.7	1021.3	959.0	913.2	872.5	828.0	802.5	774.6	772.0	763.1
7.5°	1123.1	1076.0	979.3	891.6	821.6	759.3	699.5	666.5	632.1	624.5	616.9
10°	1119.2	1056.9	936.1	821.6	728.8	651.2	583.8	541.8	506.2	497.3	489.7
12.5°	1123.1	1046.7	895.4	756.8	646.1	558.3	482.0	438.8	405.7	396.8	391.7
15°	1132.0	1040.4	861.1	698.3	572.3	474.4	399.4	362.5	335.8	326.9	324.3
17.5°	1139.6	1034.0	824.2	641.0	498.6	400.6	335.8	305.2	282.4	273.5	270.9
20°	1149.8	1025.1	787.3	586.3	433.7	342.1	284.9	258.2	240.4	234.0	232.8
22.5°	1158.7	1018.8	752.9	531.6	373.9	295.1	246.7	225.1	212.4	206.0	206.0
25°	1181.6	1021.3	723.7	480.8	329.4	258.2	217.5	201.0	190.8	187.0	187.0
27.5°	1208.3	1031.5	700.8	437.5	291.3	230.2	197.1	183.1	178.1	173.0	174.2
30°	1246.4	1051.8	685.5	401.9	263.3	208.6	180.6	170.4	165.3	164.1	164.1
32.5°	1294.8	1084.9	684.3	379.0	242.9	192.1	169.2	160.3	157.7	156.4	156.4
35°	1352.0	1114.2	676.6	368.8	230.2	180.6	160.3	153.9	152.6	152.6	152.6
37.5°	1420.7	1162.5	671.5	354.8	223.8	174.2	153.9	148.8	148.8	148.8	148.8
40°	1491.9	1201.9	663.9	342.1	221.3	170.4	150.1	143.7	143.7	143.7	143.7
42.5°	1577.1	1259.1	661.4	335.8	217.5	167.9	145.0	137.4	138.6	138.6	139.9
45°	1680.1	1324.0	660.1	329.4	216.2	165.3	139.9	131.0	132.3	131.0	131.0
47.5°	1784.4	1399.0	663.9	325.6	214.9	162.8	136.1	124.6	124.6	123.4	123.4
50°	1893.8	1467.7	666.5	321.8	212.4	157.7	129.7	119.6	117.0	114.5	115.7
52.5°	1996.8	1531.3	667.7	315.4	204.8	150.1	124.6	113.2	109.4	105.6	106.8
55°	2099.8	1592.4	670.3	307.8	194.6	142.4	118.3	106.8	101.7	96.7	96.7
57.5°	2192.7	1645.8	663.9	288.7	183.1	134.8	111.9	99.2	91.6	86.5	86.5
60°	2256.3	1683.9	644.8	260.7	167.9	125.9	105.6	91.6	82.7	78.9	78.9
62.5°	2286.8	1690.3	610.5	214.9	148.8	117.0	97.9	83.9	76.3	73.8	73.8
65°	2257.6	1662.3	557.1	161.5	128.5	106.8	90.3	77.6	70.0	63.6	63.6
67.5°	2155.8	1583.5	483.3	122.1	109.4	96.7	82.7	71.2	62.3	57.2	57.2
70°	1951.0	1419.4	373.9	97.9	92.8	83.9	75.0	63.6	56.0	49.6	49.6
72.5°	1682.7	1203.2	263.3	78.9	78.9	71.2	63.6	56.0	48.3	43.2	43.2
75°	1290.9	890.3	176.8	63.6	64.9	59.8	52.1	45.8	40.7	36.9	36.9
77.5°	704.6	440.1	108.1	47.1	48.3	45.8	40.7	36.9	34.3	30.5	30.5
80°	342.1	193.3	62.3	33.1	34.3	33.1	30.5	26.7	26.7	24.2	24.2
82.5°	143.7	72.5	33.1	22.9	22.9	20.3	19.1	19.1	19.1	17.8	17.8
85°	35.6	14.0	14.0	12.7	12.7	12.7	11.4	11.4	11.4	8.9	10.2
87.5°	5.1	5.1	5.1	5.1	5.1	5.1	3.8	1.3	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)