

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: P836523

Luminaire Tested: **ARCH3-40-722-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836523
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-40-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6394 lumens
Efficiency: N/A
Efficacy: 146.7 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

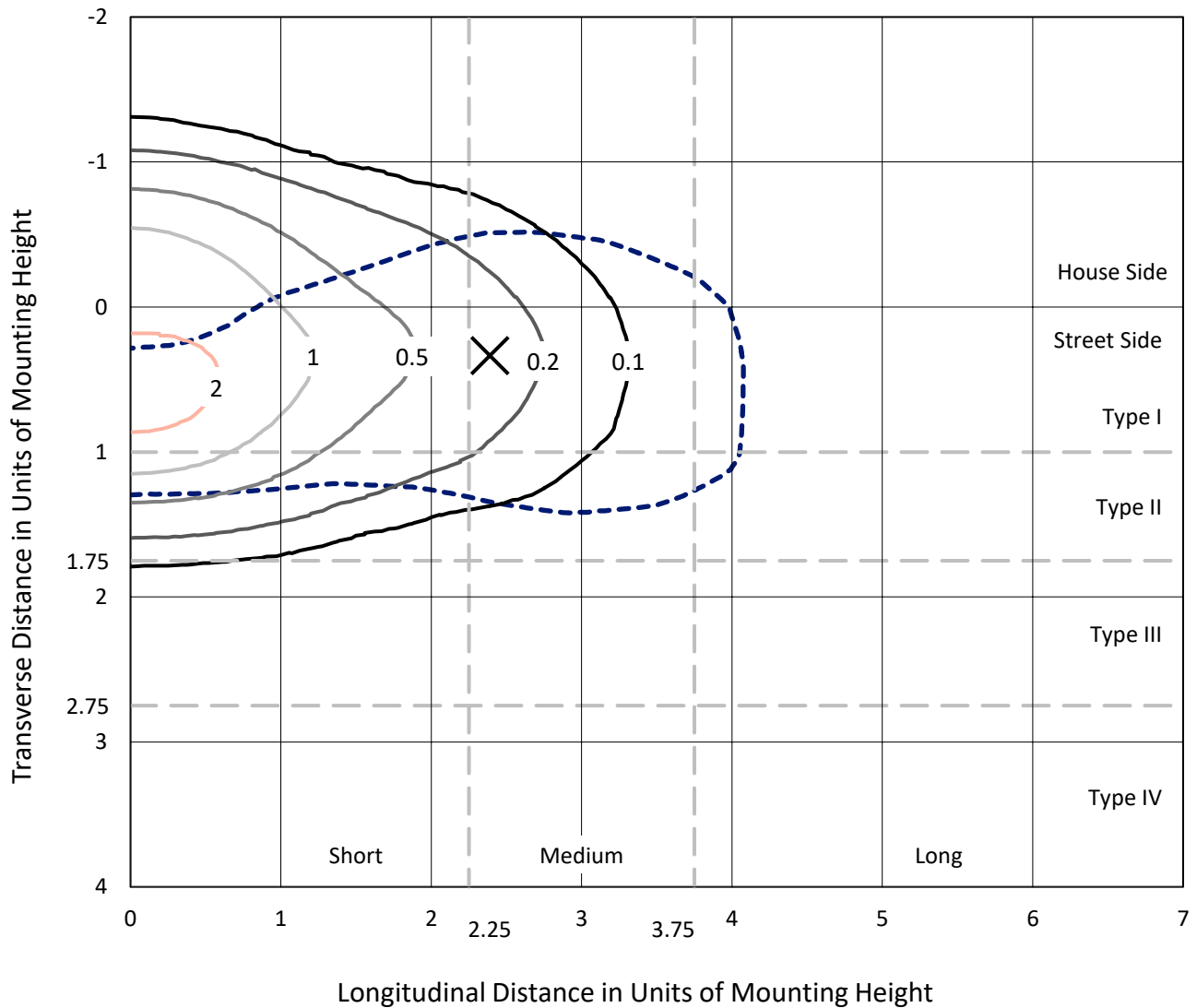
Input Watts (W): 43.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

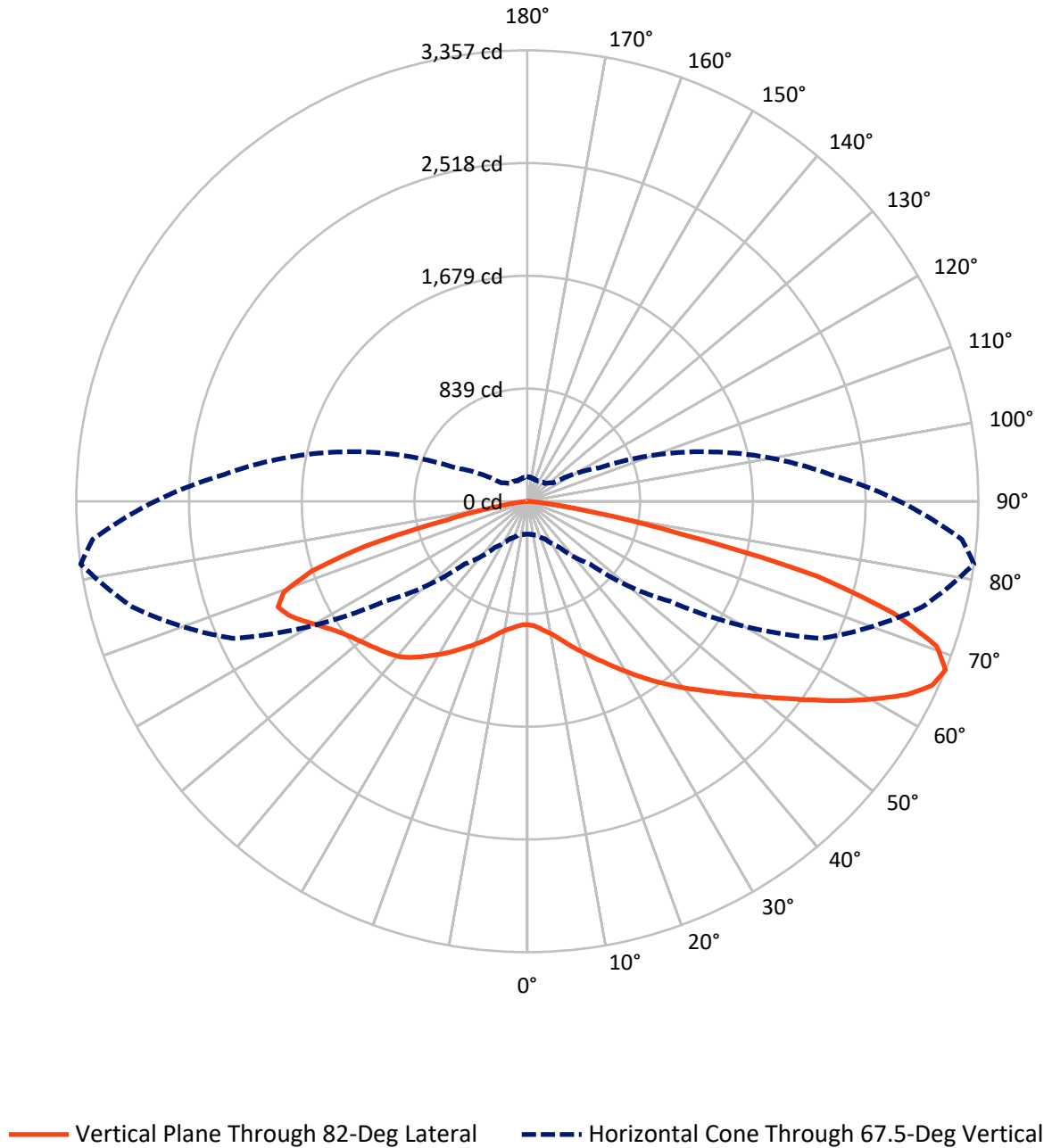
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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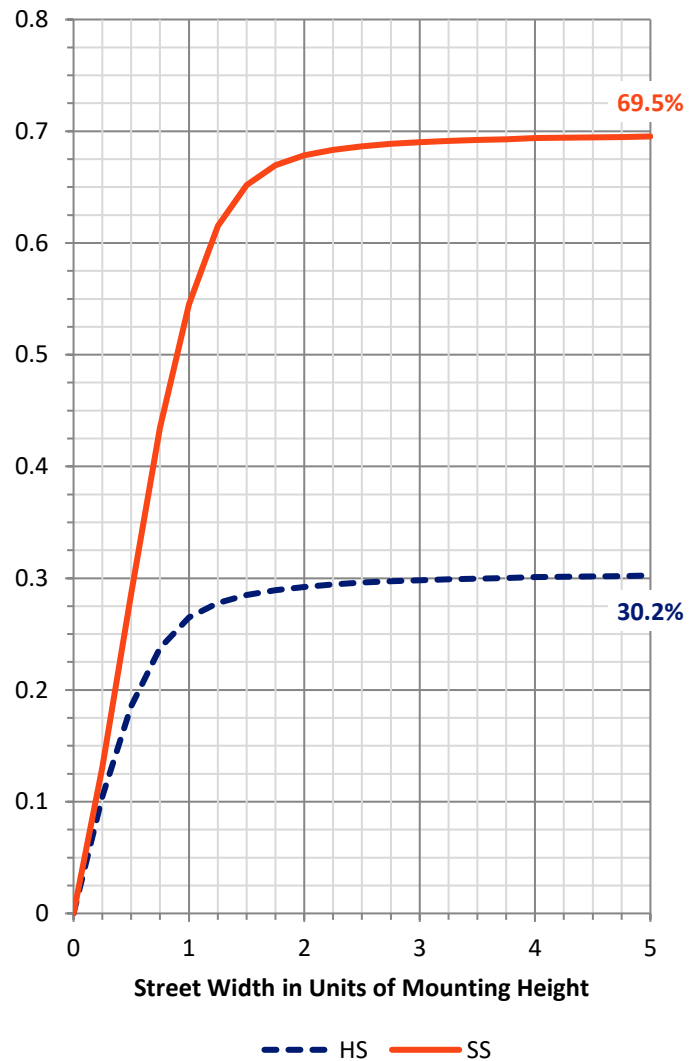
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1947.2	0.0	1947.2
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	4446.8	0.0	4446.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	6394.0	0.0	6394.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.0	1.5
10°-20°	342.2	5.4
20°-30°	687.6	10.8
30°-40°	1080.2	16.9
40°-50°	1315.9	20.6
50°-60°	1243.4	19.4
60°-70°	1026.7	16.1
70°-80°	559.1	8.7
80°-90°	44.0	0.7
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°	6394.0	100.0
0°-180°	6394.0	100.0

Coefficient of Utilization

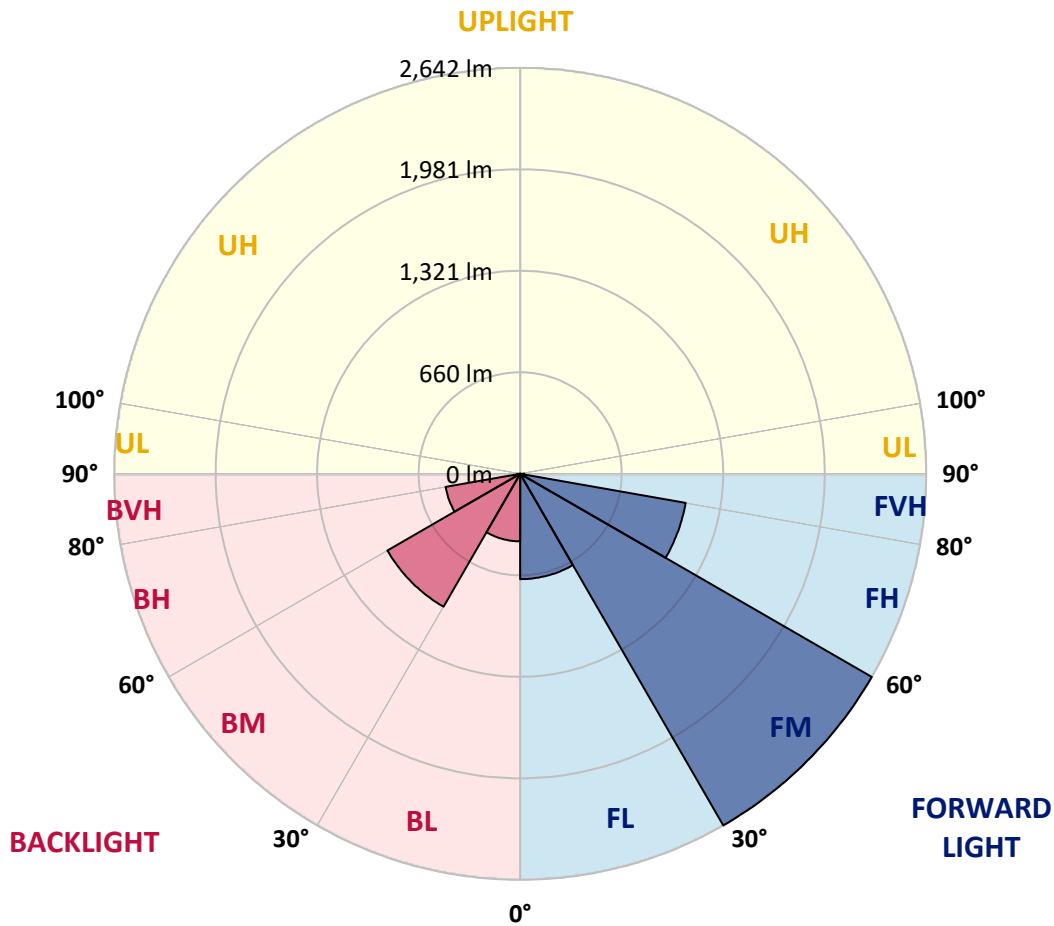


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	685.7	10.7			
FM (30°-60°)	2641.6	41.3			
FH (60°-80°)	1093.0	17.1			G1/1800
FVH (80°-90°)	26.5	0.4			G1/100
BL (0°-30°)	439.1	6.9	B1/500		
BM (30°-60°)	997.8	15.6	B1/1000		
BH (60°-80°)	492.8	7.7	B1/500		G1/500
BVH (80°-90°)	17.5	0.3			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	919.1	919.1	919.1	919.1	919.1	919.1	919.1	919.1	919.1	919.1	919.1
2.5°	960.9	960.9	968.3	968.3	961.8	951.6	948.8	937.7	927.5	927.5	928.4
5°	1052.8	1051.9	1057.5	1050.0	1034.3	1013.8	999.9	975.8	955.3	948.8	947.9
7.5°	1165.2	1164.2	1167.0	1155.0	1125.2	1091.8	1064.0	1025.0	991.6	977.6	973.9
10°	1290.5	1289.6	1286.8	1266.4	1226.4	1174.4	1132.7	1078.8	1028.7	1006.4	1001.8
12.5°	1434.4	1432.5	1426.1	1396.3	1341.6	1274.7	1214.4	1144.7	1077.9	1047.3	1037.0
15°	1595.0	1592.2	1580.2	1544.0	1470.6	1386.1	1308.1	1219.0	1137.3	1097.4	1083.5
17.5°	1764.0	1764.0	1745.4	1691.6	1609.9	1505.0	1408.4	1295.1	1199.5	1150.3	1133.6
20°	1935.8	1934.8	1911.6	1846.6	1750.1	1629.4	1506.8	1382.4	1263.6	1204.2	1183.7
22.5°	2116.8	2114.9	2086.2	2011.9	1896.8	1760.3	1617.3	1468.8	1334.1	1262.6	1236.7
25°	2324.8	2322.0	2286.7	2195.7	2059.2	1905.1	1741.7	1570.0	1414.9	1327.6	1297.0
27.5°	2545.7	2542.0	2500.2	2394.4	2244.9	2059.2	1879.1	1686.9	1504.0	1400.1	1365.7
30°	2742.5	2739.8	2694.3	2585.6	2413.9	2212.4	2010.0	1803.9	1597.8	1477.1	1434.4
32.5°	2891.1	2891.1	2850.2	2743.5	2565.2	2359.1	2141.9	1914.4	1695.3	1559.7	1509.6
35°	2981.2	2983.9	2948.7	2863.2	2695.2	2497.4	2278.3	2044.4	1799.3	1647.9	1594.1
37.5°	2994.1	3003.4	2983.0	2925.4	2785.3	2612.6	2412.0	2169.7	1907.0	1737.1	1676.7
40°	2933.8	2940.3	2941.2	2918.9	2822.4	2695.2	2529.9	2302.5	2021.2	1830.8	1761.2
42.5°	2813.1	2817.7	2826.1	2832.6	2795.5	2731.4	2620.0	2426.0	2142.8	1926.5	1844.8
45°	2657.1	2656.2	2670.1	2698.0	2696.1	2711.0	2670.1	2538.3	2269.1	2035.1	1937.6
47.5°	2424.1	2419.5	2468.7	2531.8	2563.4	2633.0	2671.1	2626.5	2406.5	2154.9	2043.4
50°	2059.2	2054.6	2162.3	2310.8	2403.7	2509.5	2620.0	2679.4	2550.4	2289.5	2158.6
52.5°	1615.4	1610.8	1747.3	2007.2	2209.6	2363.8	2516.9	2691.5	2686.8	2439.9	2288.6
55°	1201.4	1197.7	1330.4	1611.7	1939.5	2194.8	2390.7	2659.9	2815.0	2612.6	2446.4
57.5°	846.7	844.9	960.0	1193.0	1592.2	1988.7	2269.1	2598.6	2932.9	2800.1	2624.6
60°	594.2	591.4	675.0	855.1	1204.2	1677.7	2148.4	2516.9	3021.1	2984.9	2814.0
62.5°	400.1	398.3	457.7	608.1	855.1	1291.4	1965.5	2462.2	3071.2	3170.5	3005.3
65°	303.6	302.7	329.6	412.2	605.3	927.5	1674.9	2455.7	3077.7	3309.8	3167.8
67.5°	245.1	246.0	260.9	308.2	418.7	659.2	1298.9	2414.8	3043.4	3357.2	3246.7
70°	200.5	200.5	207.0	238.6	309.2	444.7	907.1	2229.1	2947.7	3233.7	3152.9
72.5°	153.2	154.1	174.5	193.1	233.0	311.9	581.2	1844.8	2722.1	2851.2	2789.9
75°	121.6	120.7	132.8	158.8	181.0	222.8	356.5	1323.0	2316.4	2228.2	2189.2
77.5°	87.3	86.3	95.6	117.9	137.4	157.8	212.6	667.5	1259.9	1157.7	1129.0
80°	59.4	57.6	65.9	81.7	91.0	92.8	104.0	256.2	549.6	518.1	511.6
82.5°	30.6	30.6	35.3	46.4	47.3	48.3	46.4	82.6	182.0	169.9	162.5
85°	12.1	12.1	13.0	15.8	15.8	16.7	16.7	21.4	19.5	18.6	17.6
87.5°	0.9	0.9	1.9	1.9	2.8	2.8	2.8	3.7	4.6	4.6	4.6
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°	919.1	919.1	919.1	919.1	919.1	919.1	919.1	919.1	919.1	919.1	919.1
2.5°	926.6	922.8	910.8	908.0	906.1	903.4	904.3	897.8	895.0	895.9	892.2
5°	943.3	936.8	921.9	915.4	913.6	910.8	913.6	908.9	904.3	906.1	904.3
7.5°	966.5	957.2	938.6	932.1	931.2	928.4	932.1	928.4	924.7	926.6	922.8
10°	990.6	978.6	958.1	951.6	951.6	950.7	954.4	948.8	945.1	946.1	944.2
12.5°	1025.9	1010.1	987.8	982.3	979.5	982.3	983.2	975.8	969.3	970.2	967.4
15°	1068.6	1051.0	1026.8	1018.5	1016.6	1015.7	1012.0	1002.7	994.3	993.4	990.6
17.5°	1115.0	1092.7	1064.0	1055.6	1047.3	1044.5	1035.2	1023.1	1010.1	1010.1	1006.4
20°	1159.6	1134.5	1100.2	1088.1	1076.0	1064.9	1049.1	1029.6	1012.9	1010.1	1006.4
22.5°	1207.9	1178.2	1138.2	1120.6	1099.2	1077.0	1050.0	1024.0	1002.7	998.0	995.3
25°	1261.7	1224.6	1177.2	1151.2	1116.9	1082.5	1042.6	1009.2	984.1	976.7	974.8
27.5°	1321.1	1276.6	1219.0	1180.9	1130.8	1077.0	1025.9	986.0	955.3	946.1	943.3
30°	1381.5	1328.6	1257.1	1201.4	1130.8	1059.3	995.3	948.8	913.6	900.6	898.7
32.5°	1441.8	1382.4	1291.4	1212.5	1119.7	1029.6	955.3	900.6	860.6	844.9	848.6
35°	1514.3	1441.8	1323.0	1217.2	1101.1	993.4	909.9	845.8	804.9	791.0	793.8
37.5°	1589.5	1501.3	1348.1	1213.4	1075.1	952.6	858.8	796.6	745.5	721.4	724.2
40°	1654.4	1555.1	1365.7	1200.4	1041.7	906.1	808.7	727.0	656.4	633.2	630.4
42.5°	1715.7	1595.0	1375.0	1180.9	1003.6	852.3	737.2	632.3	561.7	532.9	533.8
45°	1779.8	1634.0	1371.3	1155.0	956.3	789.2	645.3	539.4	477.2	451.2	452.1
47.5°	1853.1	1675.8	1367.6	1127.1	898.7	707.5	557.1	457.7	403.9	385.3	383.4
50°	1931.1	1722.2	1362.9	1092.7	834.6	616.5	469.8	381.6	336.1	324.0	321.2
52.5°	2019.3	1772.4	1360.1	1051.9	757.6	519.9	391.8	314.7	284.1	275.7	274.8
55°	2125.1	1830.8	1363.8	1002.7	664.7	428.9	325.9	271.1	250.7	246.0	245.1
57.5°	2254.2	1906.0	1375.0	945.1	567.3	350.0	277.6	244.2	231.2	227.5	227.5
60°	2394.4	1991.5	1395.4	880.1	469.8	288.7	246.0	222.8	217.2	221.9	221.9
62.5°	2545.7	2091.7	1431.6	801.2	378.8	244.2	221.0	205.2	201.5	210.8	211.7
65°	2685.9	2189.2	1454.8	706.5	300.8	211.7	201.5	187.5	189.4	198.7	197.8
67.5°	2772.3	2270.0	1422.3	587.7	238.6	187.5	181.0	169.0	173.6	181.0	182.0
70°	2719.3	2224.5	1261.7	443.8	186.6	163.4	158.8	151.3	155.0	164.3	168.0
72.5°	2460.3	1992.4	981.3	299.9	150.4	137.4	139.3	135.5	140.2	148.5	156.9
75°	1997.0	1505.9	658.2	192.2	118.8	117.0	119.8	117.0	118.8	127.2	131.8
77.5°	1042.6	734.4	327.7	119.8	88.2	91.0	95.6	96.6	102.1	104.0	105.8
80°	486.5	330.5	136.5	66.8	58.5	64.1	73.3	74.3	76.1	78.9	79.8
82.5°	158.8	99.3	63.1	36.2	33.4	36.2	47.3	56.6	57.6	63.1	63.1
85°	16.7	10.2	13.9	14.9	13.0	15.8	21.4	20.4	9.3	5.6	5.6
87.5°	4.6	3.7	4.6	4.6	3.7	3.7	2.8	0.9	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)