

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: P1210711

Luminaire Tested: **ARCH3-50-722-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-50-722-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7529 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 53.6
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

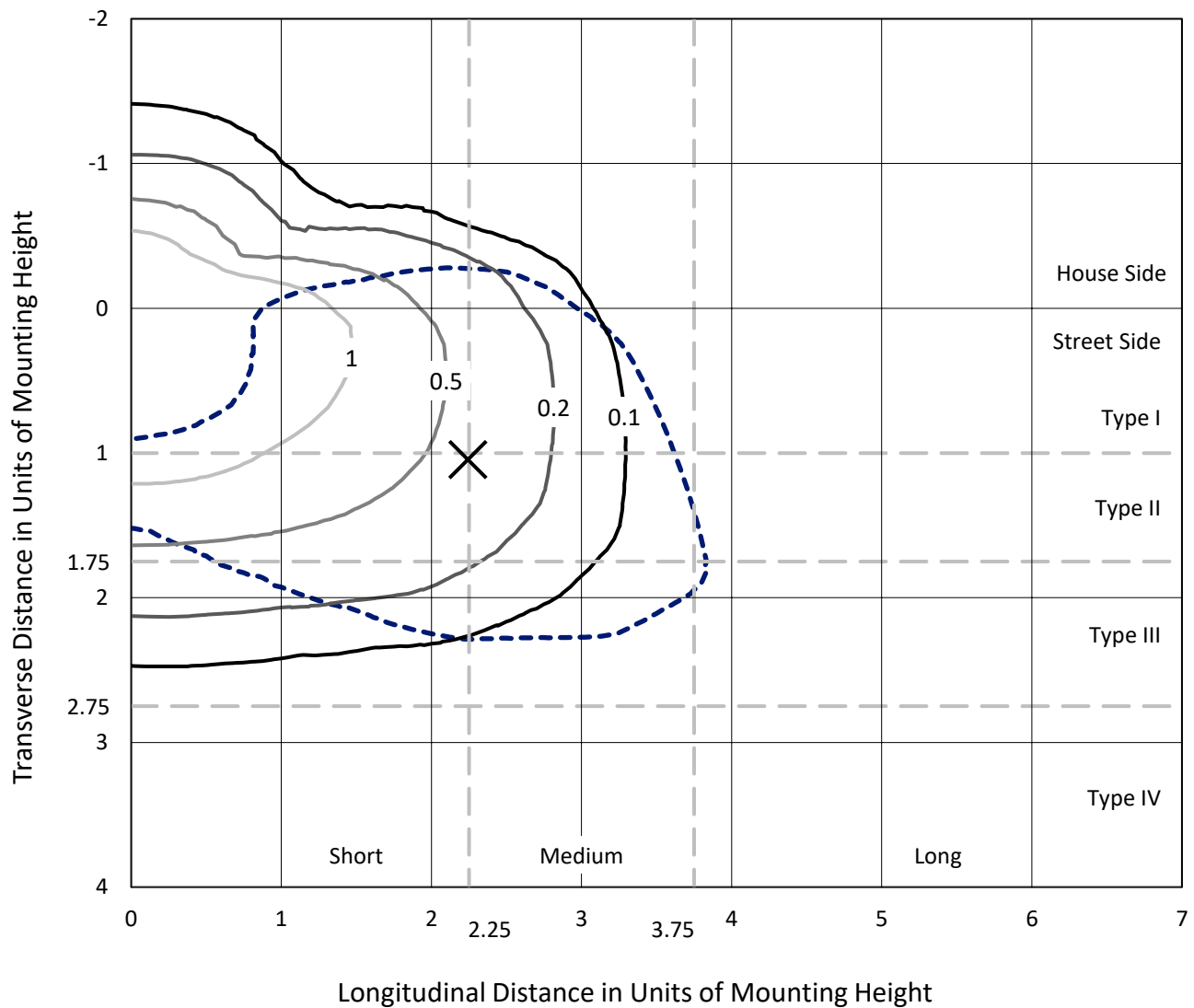


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Iso-Footcandle Lines of Horizontal Illumination

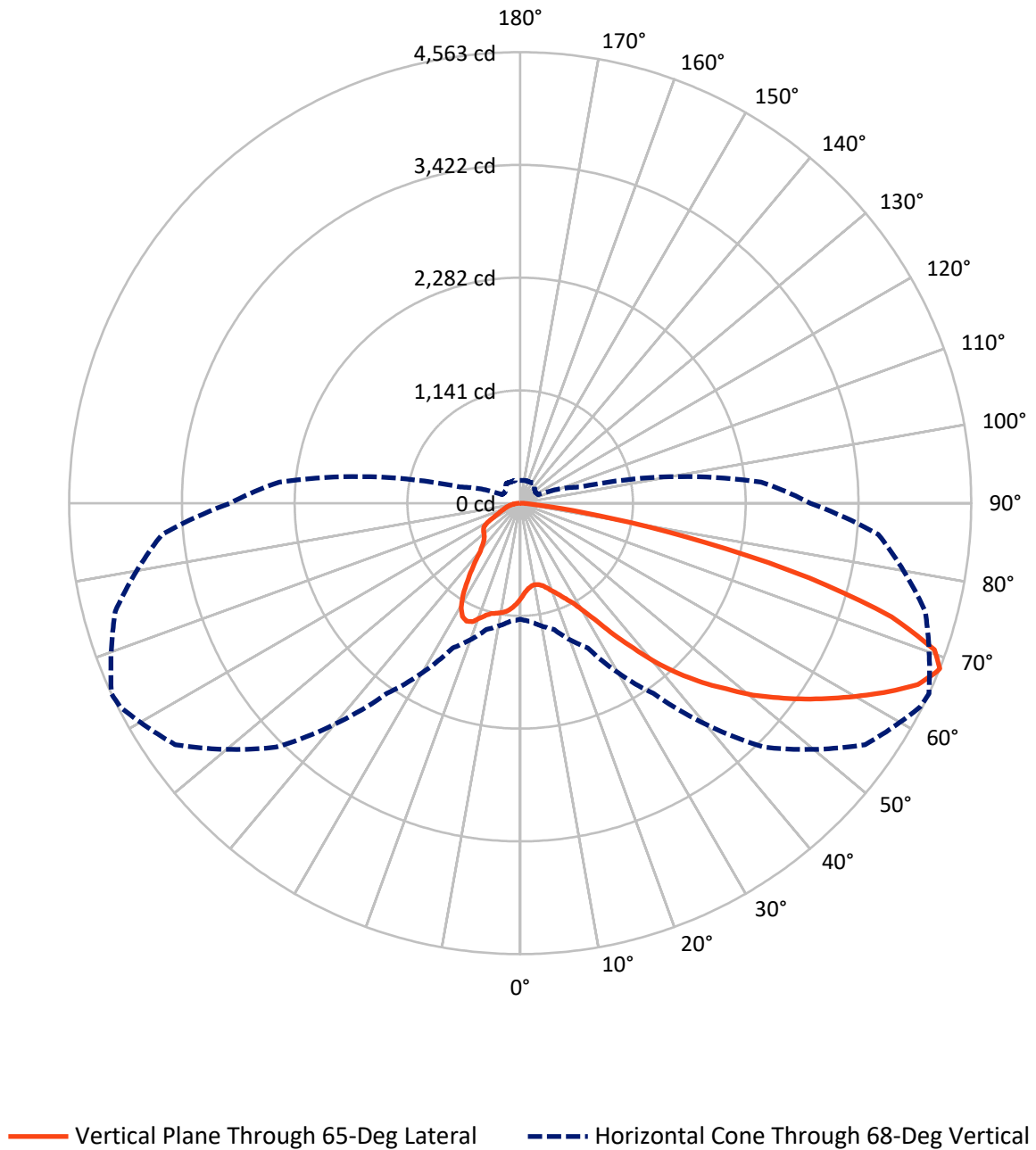
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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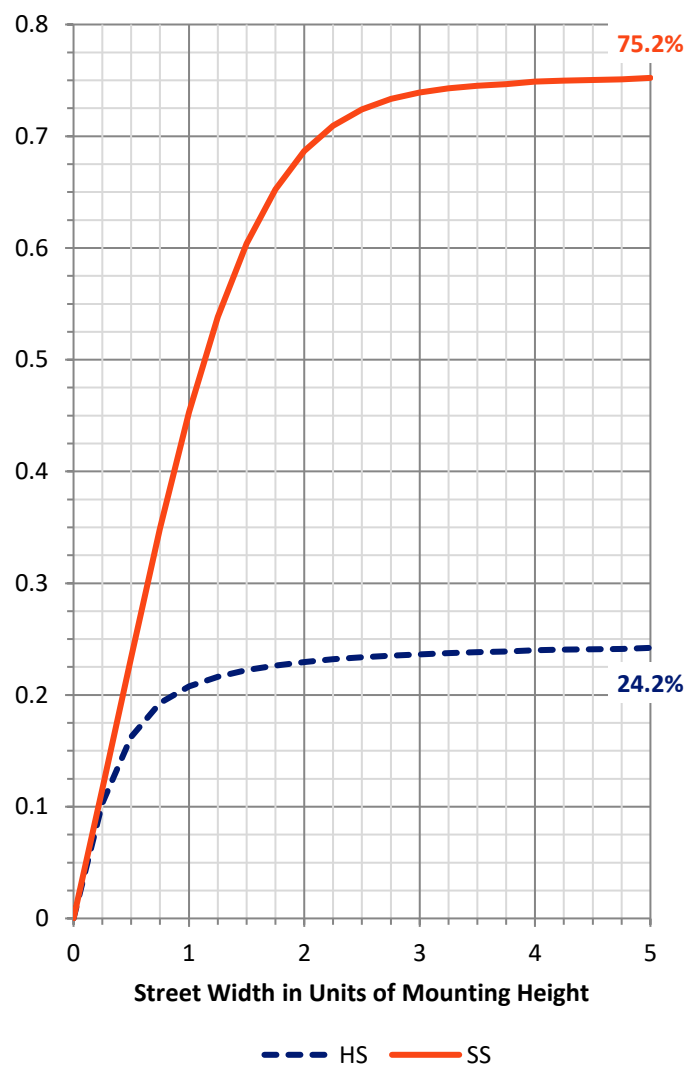
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1845.9	0.0	1845.9
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	5683.1	0.0	5683.1
	% Fixture	75.5	0.0	75.5
Total	Lumens	7529.0	0.0	7529.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	1.2
10°-20°	299.4	4.0
20°-30°	541.9	7.2
30°-40°	852.4	11.3
40°-50°	1269.6	16.9
50°-60°	1665.4	22.1
60°-70°	1821.2	24.2
70°-80°	901.2	12.0
80°-90°	86.0	1.1
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°	7529.0	100.0
0°-180°	7529.0	100.0

Coefficient of Utilization



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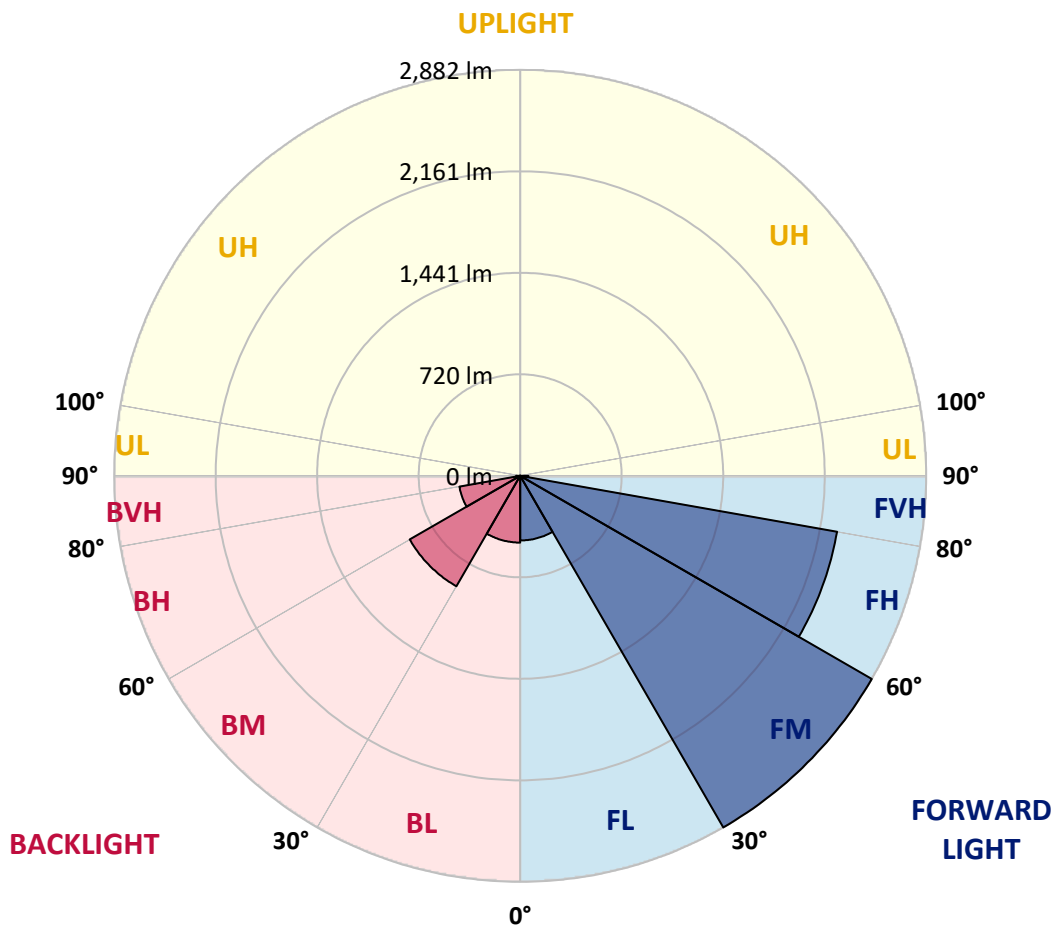
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	459.0	6.1			
FM	(30°-60°)	2882.0	38.3			
FH	(60°-80°)	2284.3	30.3			G2/5000
FVH	(80°-90°)	57.8	0.8			G1/100
BL	(0°-30°)	474.2	6.3	B1/500		
BM	(30°-60°)	905.4	12.0	B1/1000		
BH	(60°-80°)	438.1	5.8	B1/500		G1/500
BVH	(80°-90°)	28.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	962.1	962.1	962.1	962.1	962.1	962.1	962.1	962.1	962.1	962.1	962.1
2.5°	839.8	837.8	842.7	847.6	858.2	870.9	888.3	902.9	904.8	932.0	953.4
5°	790.3	787.4	792.2	798.0	802.9	818.4	836.9	858.2	867.0	906.8	952.4
7.5°	795.1	794.2	796.1	794.2	794.2	801.0	813.6	834.9	844.6	892.2	957.3
10°	823.3	825.2	826.2	820.4	814.5	811.6	815.5	830.1	836.9	893.2	978.6
12.5°	869.9	872.8	873.8	863.1	855.3	842.7	835.9	841.7	846.6	902.9	1008.7
15°	933.0	934.9	928.1	921.3	901.9	886.4	869.9	865.0	867.0	923.3	1042.7
17.5°	1006.8	1003.9	1003.9	987.4	962.1	937.8	910.7	906.8	906.8	956.3	1091.2
20°	1087.4	1090.3	1081.5	1059.2	1034.0	996.1	968.9	951.4	953.4	994.2	1150.5
22.5°	1203.9	1208.7	1185.4	1153.4	1114.5	1070.9	1032.0	1003.9	1004.8	1043.7	1211.6
25°	1329.1	1331.0	1316.5	1273.8	1221.3	1159.2	1107.7	1071.8	1070.9	1099.0	1290.3
27.5°	1457.2	1466.0	1436.9	1396.1	1347.5	1269.9	1201.9	1153.4	1145.6	1183.5	1388.3
30°	1589.3	1600.0	1571.8	1532.0	1471.8	1405.8	1325.2	1268.9	1264.0	1314.5	1519.4
32.5°	1722.3	1725.2	1702.9	1669.9	1615.5	1553.4	1488.3	1426.2	1421.3	1503.9	1689.3
35°	1831.0	1839.8	1824.2	1816.5	1776.7	1719.4	1656.3	1620.4	1633.0	1738.8	1909.7
37.5°	1962.1	1970.8	1953.4	1951.4	1938.8	1889.3	1845.6	1848.5	1861.1	2004.8	2141.7
40°	2151.4	2161.1	2116.5	2097.0	2097.0	2048.5	2033.9	2102.9	2119.4	2266.9	2383.4
42.5°	2311.6	2327.1	2300.9	2288.3	2250.4	2216.5	2233.9	2331.0	2359.2	2517.4	2594.1
45°	2389.3	2400.9	2432.0	2468.9	2432.0	2372.8	2438.8	2548.5	2588.3	2748.5	2804.8
47.5°	2431.0	2441.7	2477.6	2576.6	2601.9	2552.4	2645.6	2782.5	2809.6	2977.6	3005.8
50°	2436.8	2470.8	2517.4	2616.4	2732.0	2738.8	2853.3	3020.3	3052.4	3202.8	3182.5
52.5°	2389.3	2402.9	2499.0	2666.0	2794.1	2910.6	3079.5	3248.5	3271.8	3414.5	3338.8
55°	2311.6	2331.0	2427.1	2654.3	2854.3	3073.7	3309.6	3472.7	3499.0	3620.3	3483.4
57.5°	2241.7	2251.4	2354.3	2620.3	2914.5	3236.8	3514.5	3706.7	3724.2	3800.9	3590.2
60°	2164.0	2174.7	2277.6	2547.5	2959.2	3360.1	3728.1	3942.6	3958.2	3991.2	3714.5
62.5°	1963.1	1991.2	2120.3	2427.1	2947.5	3500.9	3956.2	4175.6	4195.1	4159.1	3812.5
65°	1594.1	1633.9	1792.2	2154.3	2838.8	3592.2	4142.6	4390.2	4423.2	4285.3	3838.8
67.5°	1237.8	1266.0	1393.2	1709.7	2457.2	3546.5	4263.0	4537.8	4547.5	4265.0	3693.1
68°	1173.8	1201.9	1323.3	1616.5	2351.4	3492.2	4260.1	4541.6	4563.0	4242.6	3636.8
70°	898.0	930.1	1045.6	1280.6	1895.1	3146.5	4082.4	4448.4	4445.5	3972.7	3287.3
72.5°	561.2	579.6	659.2	807.7	1253.4	2394.1	3465.0	3923.2	3931.0	3238.8	2521.3
75°	356.3	356.3	352.4	391.3	642.7	1364.0	2575.7	3020.3	3026.1	2267.9	1589.3
77.5°	309.7	301.0	259.2	219.4	256.3	530.1	1524.2	1950.4	1918.4	1221.3	754.4
80°	261.2	246.6	212.6	176.7	165.0	166.0	585.4	990.3	947.6	439.8	250.5
82.5°	188.3	175.7	160.2	138.8	127.2	99.0	122.3	286.4	279.6	127.2	81.6
85°	101.9	92.2	90.3	91.3	76.7	61.2	51.5	63.1	63.1	55.3	46.6
87.5°	35.9	26.2	31.1	35.0	30.1	25.2	20.4	24.3	25.2	24.3	22.3
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°	962.1	962.1	962.1	962.1	962.1	962.1	962.1	962.1	962.1	962.1	962.1
2.5°	966.0	975.7	999.0	1019.4	1034.0	1046.6	1053.4	1056.3	1063.1	1064.1	1062.1
5°	973.8	999.0	1034.0	1064.1	1080.6	1087.4	1089.3	1090.3	1087.4	1089.3	1087.4
7.5°	994.2	1026.2	1075.7	1101.9	1104.8	1094.2	1095.1	1091.2	1095.1	1099.0	1099.0
10°	1025.2	1066.0	1112.6	1122.3	1109.7	1103.9	1115.5	1138.8	1146.6	1157.3	1157.3
12.5°	1066.0	1114.5	1147.5	1138.8	1127.2	1146.6	1180.6	1203.9	1211.6	1215.5	1212.6
15°	1112.6	1165.0	1181.5	1152.4	1173.8	1215.5	1227.2	1213.6	1194.1	1185.4	1190.3
17.5°	1171.8	1215.5	1205.8	1186.4	1234.9	1240.7	1202.9	1159.2	1128.1	1116.5	1124.2
20°	1234.0	1271.8	1227.2	1235.9	1266.0	1203.9	1132.0	1075.7	1048.5	1043.7	1051.4
22.5°	1300.0	1324.2	1248.5	1293.2	1248.5	1122.3	1035.9	1006.8	1000.0	1007.7	1014.5
25°	1374.7	1371.8	1285.4	1310.7	1183.5	1022.3	970.9	968.9	968.9	973.8	983.5
27.5°	1459.2	1413.6	1322.3	1287.4	1070.9	939.8	930.1	931.0	928.1	929.1	934.0
30°	1557.2	1469.9	1363.1	1210.7	944.6	877.7	873.8	870.9	864.1	862.1	864.1
32.5°	1680.5	1529.1	1404.8	1084.4	834.0	813.6	811.6	796.1	779.6	777.7	784.4
35°	1836.9	1636.9	1426.2	926.2	742.7	741.7	734.9	710.7	689.3	689.3	684.5
37.5°	2015.5	1775.7	1434.9	771.8	667.0	671.8	652.4	621.3	604.8	595.1	598.0
40°	2198.0	1933.9	1433.9	636.9	601.0	601.9	587.4	549.5	508.7	484.5	490.3
42.5°	2373.7	2077.6	1408.7	565.0	547.6	544.6	533.0	481.5	447.6	428.1	429.1
45°	2514.5	2226.2	1369.9	522.3	499.0	503.9	477.7	446.6	415.5	398.0	397.1
47.5°	2655.3	2338.8	1307.7	496.1	463.1	454.4	443.7	422.3	399.0	379.6	380.6
50°	2783.4	2434.9	1249.5	478.6	430.1	407.8	409.7	397.1	376.7	359.2	358.2
52.5°	2873.7	2498.0	1217.4	468.9	390.3	366.0	372.8	366.0	346.6	334.0	333.0
55°	2964.0	2546.5	1228.1	456.3	346.6	327.2	338.8	336.9	326.2	322.3	323.3
57.5°	3036.8	2583.4	1266.0	433.0	304.8	293.2	312.6	306.8	299.0	300.0	300.0
60°	3107.7	2631.0	1310.7	379.6	268.9	269.9	288.3	277.7	272.8	281.5	282.5
62.5°	3181.5	2682.5	1273.8	301.9	237.9	244.7	266.0	257.3	259.2	271.8	275.7
65°	3172.7	2677.6	1037.8	247.6	210.7	224.3	256.3	253.4	254.4	259.2	261.2
67.5°	2994.1	2506.7	713.6	210.7	191.3	207.8	248.5	236.9	237.9	234.9	235.9
68°	2933.9	2446.5	629.1	204.8	187.4	203.9	244.7	234.0	234.9	232.0	231.1
70°	2605.8	2095.1	398.0	180.6	173.8	193.2	225.2	221.4	220.4	218.4	218.4
72.5°	1986.4	1546.6	209.7	156.3	158.2	176.7	201.0	208.7	203.9	204.8	210.7
75°	1315.5	930.1	145.6	134.0	138.8	151.5	178.6	194.2	189.3	192.2	189.3
77.5°	696.1	501.0	116.5	113.6	113.6	122.3	147.6	171.8	171.8	169.9	167.0
80°	228.2	176.7	93.2	89.3	91.3	96.1	118.4	140.8	143.7	139.8	137.9
82.5°	76.7	81.6	69.9	65.0	67.0	70.9	89.3	107.8	108.7	101.0	99.0
85°	47.6	54.4	43.7	42.7	42.7	43.7	54.4	59.2	54.4	48.5	50.5
87.5°	22.3	27.2	20.4	17.5	14.6	12.6	9.7	3.9	3.9	1.9	1.9
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)