

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: P1211575

Luminaire Tested: **ARCH4-50-722-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211575
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: ARCH4-50-722-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 435mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

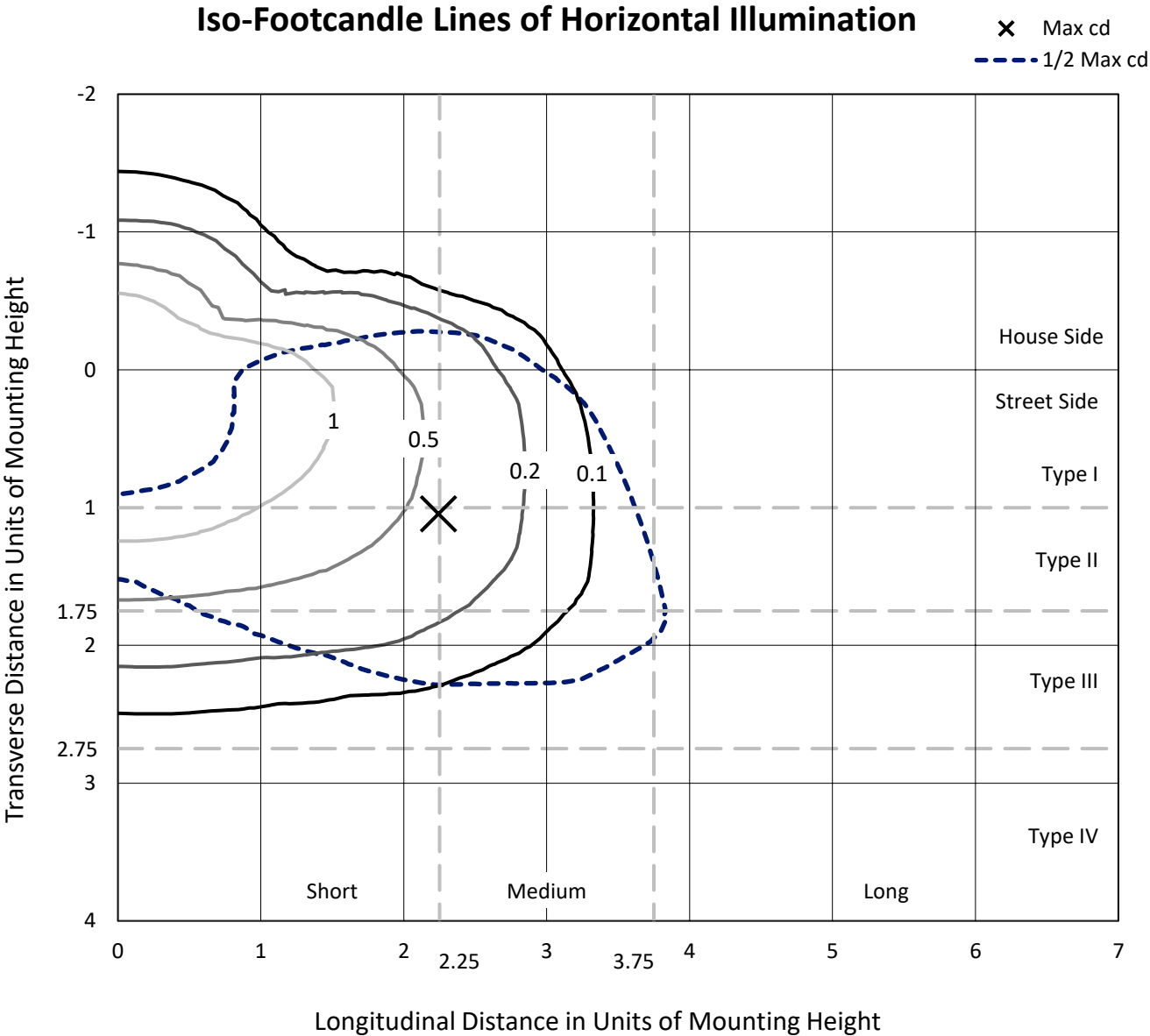
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7904 lumens
Efficiency: N/A
Efficacy: 148.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 53.2
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



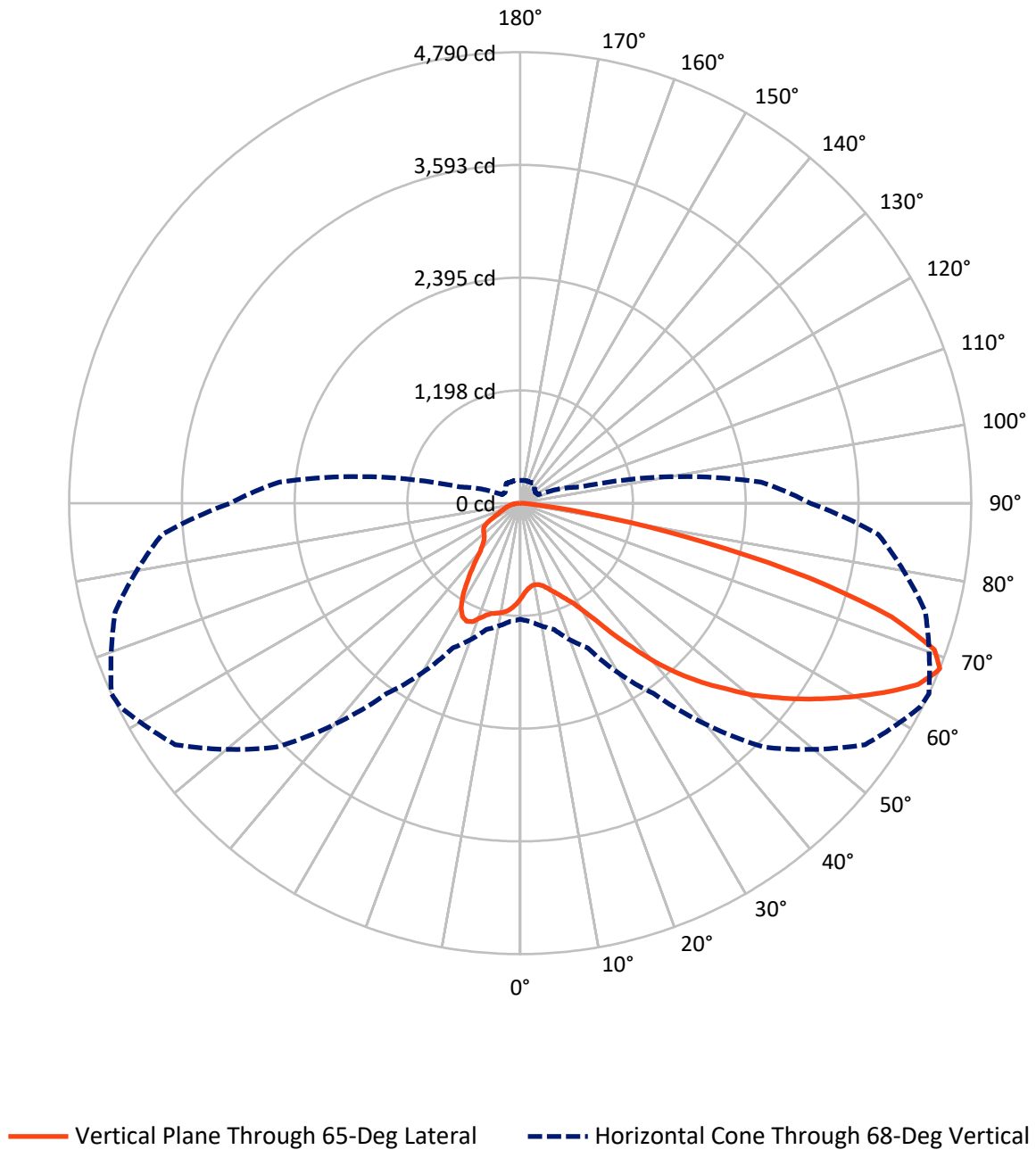
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Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1937.8	0.0	1937.8
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	5966.2	0.0	5966.2
	% Fixture	75.5	0.0	75.5
Total	Lumens	7904.0	0.0	7904.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.5	1.2
10°-20°	314.3	4.0
20°-30°	568.9	7.2
30°-40°	894.9	11.3
40°-50°	1332.8	16.9
50°-60°	1748.4	22.1
60°-70°	1912.0	24.2
70°-80°	946.1	12.0
80°-90°	90.2	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°	7904.0	100.0
0°-180°	7904.0	100.0

Coefficient of Utilization



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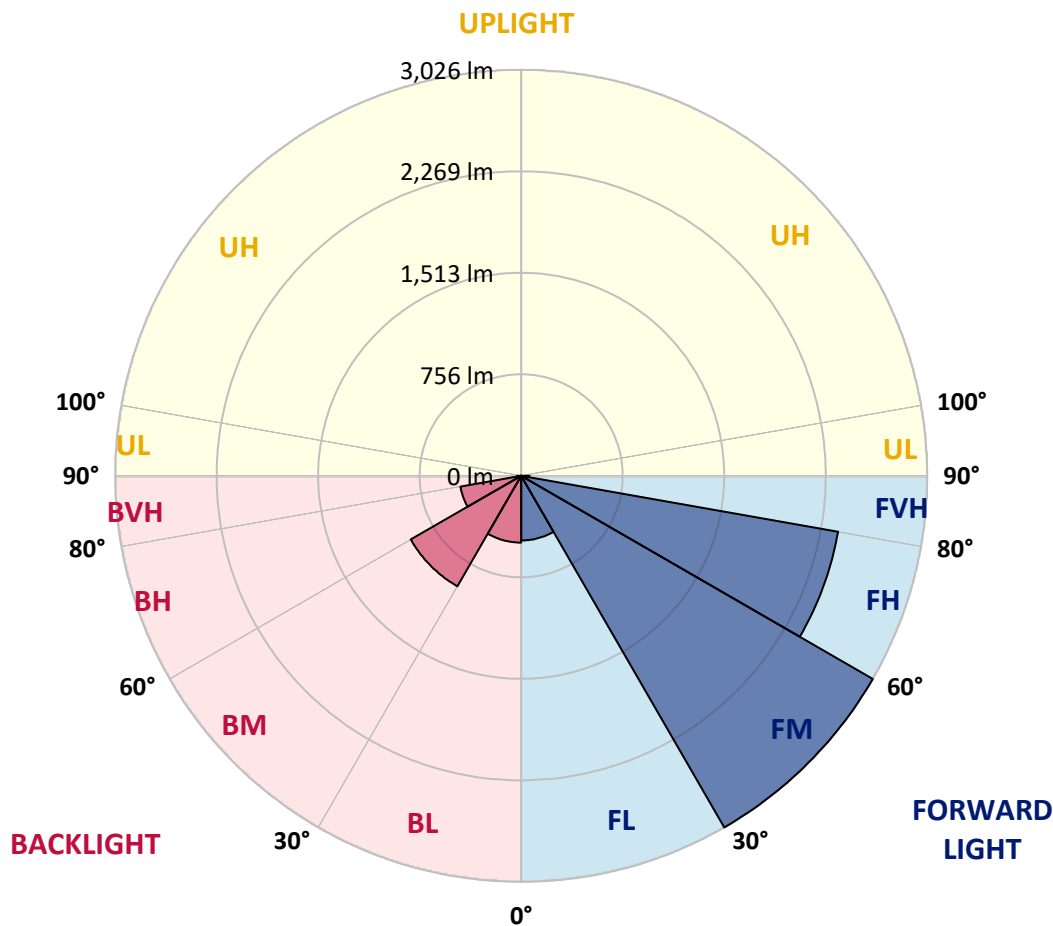
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	481.8	6.1			
FM	(30°-60°)	3025.5	38.3			
FH	(60°-80°)	2398.1	30.3			G2/5000
FVH	(80°-90°)	60.7	0.8			G1/100
BL	(0°-30°)	497.8	6.3	B1/500		
BM	(30°-60°)	950.5	12.0	B1/1000		
BH	(60°-80°)	459.9	5.8	B1/500		G1/500
BVH	(80°-90°)	29.5	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°	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0
2.5°	881.6	879.6	884.7	889.8	901.0	914.2	932.6	947.9	949.9	978.4	1000.9
5°	829.6	826.6	831.7	837.8	842.9	859.2	878.6	901.0	910.2	951.9	999.8
7.5°	834.7	833.7	835.8	833.7	833.7	840.8	854.1	876.5	886.7	936.7	1004.9
10°	864.3	866.3	867.3	861.2	855.1	852.1	856.1	871.4	878.6	937.7	1027.4
12.5°	913.2	916.3	917.3	906.1	897.9	884.7	877.5	883.7	888.7	947.9	1059.0
15°	979.5	981.5	974.4	967.2	946.8	930.5	913.2	908.1	910.2	969.3	1094.6
17.5°	1056.9	1053.9	1053.9	1036.5	1010.0	984.6	956.0	951.9	951.9	1003.9	1145.6
20°	1141.5	1144.6	1135.4	1112.0	1085.5	1045.7	1017.2	998.8	1000.9	1043.7	1207.8
22.5°	1263.8	1268.9	1244.5	1210.8	1170.1	1124.2	1083.4	1053.9	1054.9	1095.6	1272.0
25°	1395.3	1397.3	1382.0	1337.2	1282.2	1216.9	1162.9	1125.2	1124.2	1153.7	1354.5
27.5°	1529.8	1539.0	1508.4	1465.6	1414.7	1333.1	1261.8	1210.8	1202.7	1242.4	1457.5
30°	1668.4	1679.7	1650.1	1608.3	1545.1	1475.8	1391.2	1332.1	1327.0	1380.0	1595.1
32.5°	1808.1	1811.1	1787.7	1753.0	1696.0	1630.7	1562.4	1497.2	1492.1	1578.8	1773.4
35°	1922.2	1931.4	1915.1	1906.9	1865.2	1805.0	1738.8	1701.1	1714.3	1825.4	2004.8
37.5°	2059.8	2069.0	2050.6	2048.6	2035.4	1983.4	1937.5	1940.6	1953.8	2104.7	2248.4
40°	2258.6	2268.8	2221.9	2201.5	2201.5	2150.5	2135.2	2207.6	2224.9	2379.9	2502.2
42.5°	2426.7	2443.0	2415.5	2402.3	2362.5	2326.9	2345.2	2447.1	2476.7	2642.8	2723.3
45°	2508.3	2520.5	2553.1	2591.8	2553.1	2490.9	2560.3	2675.4	2717.2	2885.4	2944.5
47.5°	2552.1	2563.3	2601.0	2705.0	2731.5	2679.5	2777.3	2921.1	2949.6	3125.9	3155.5
50°	2558.2	2593.9	2642.8	2746.8	2868.1	2875.2	2995.5	3170.8	3204.4	3362.4	3341.0
52.5°	2508.3	2522.5	2623.4	2798.7	2933.3	3055.6	3232.9	3410.3	3434.7	3584.6	3505.1
55°	2426.7	2447.1	2548.0	2786.5	2996.5	3226.8	3474.5	3645.7	3673.2	3800.6	3656.9
57.5°	2353.4	2363.5	2471.6	2750.8	3059.7	3398.0	3689.5	3891.3	3909.7	3990.2	3769.0
60°	2271.8	2283.0	2391.1	2674.4	3106.5	3527.5	3913.8	4139.0	4155.3	4190.0	3899.5
62.5°	2060.8	2090.4	2226.0	2548.0	3094.3	3675.3	4153.3	4383.6	4404.0	4366.3	4002.4
65°	1673.5	1715.3	1881.5	2261.6	2980.2	3771.1	4349.0	4608.9	4643.5	4498.8	4029.9
67.5°	1299.5	1329.0	1462.6	1794.8	2579.6	3723.2	4475.3	4763.8	4774.0	4477.4	3877.1
68°	1232.2	1261.8	1389.2	1697.0	2468.5	3666.1	4472.3	4767.9	4790.3	4453.9	3818.0
70°	942.8	976.4	1097.7	1344.3	1989.5	3303.3	4285.8	4670.0	4667.0	4170.6	3451.0
72.5°	589.1	608.5	692.0	848.0	1315.8	2513.4	3637.6	4118.6	4126.8	3400.1	2646.9
75°	374.0	374.0	370.0	410.7	674.7	1432.0	2704.0	3170.8	3176.9	2380.9	1668.4
77.5°	325.1	316.0	272.1	230.3	269.1	556.5	1600.2	2047.6	2014.0	1282.2	791.9
80°	274.2	258.9	223.2	185.5	173.3	174.3	614.6	1039.6	994.7	461.7	263.0
82.5°	197.7	184.5	168.2	145.7	133.5	104.0	128.4	300.7	293.5	133.5	85.6
85°	107.0	96.8	94.8	95.8	80.5	64.2	54.0	66.2	66.2	58.1	48.9
87.5°	37.7	27.5	32.6	36.7	31.6	26.5	21.4	25.5	26.5	25.5	23.4
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°	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0	1010.0
2.5°	1014.1	1024.3	1048.8	1070.2	1085.5	1098.7	1105.8	1108.9	1116.0	1117.1	1115.0
5°	1022.3	1048.8	1085.5	1117.1	1134.4	1141.5	1143.6	1144.6	1141.5	1143.6	1141.5
7.5°	1043.7	1077.3	1129.3	1156.8	1159.9	1148.6	1149.7	1145.6	1149.7	1153.7	1153.7
10°	1076.3	1119.1	1168.0	1178.2	1165.0	1158.8	1171.1	1195.5	1203.7	1214.9	1214.9
12.5°	1119.1	1170.1	1204.7	1195.5	1183.3	1203.7	1239.4	1263.8	1272.0	1276.0	1273.0
15°	1168.0	1223.0	1240.4	1209.8	1232.2	1276.0	1288.3	1274.0	1253.6	1244.5	1249.5
17.5°	1230.2	1276.0	1265.9	1245.5	1296.4	1302.5	1262.8	1216.9	1184.3	1172.1	1180.2
20°	1295.4	1335.2	1288.3	1297.5	1329.0	1263.8	1188.4	1129.3	1100.7	1095.6	1103.8
22.5°	1364.7	1390.2	1310.7	1357.6	1310.7	1178.2	1087.5	1056.9	1049.8	1057.9	1065.1
25°	1443.2	1440.1	1349.4	1375.9	1242.4	1073.2	1019.2	1017.2	1017.2	1022.3	1032.5
27.5°	1531.9	1484.0	1388.2	1351.5	1124.2	986.6	976.4	977.4	974.4	975.4	980.5
30°	1634.8	1543.1	1431.0	1271.0	991.7	921.4	917.3	914.2	907.1	905.1	907.1
32.5°	1764.2	1605.3	1474.8	1138.5	875.5	854.1	852.1	835.8	818.4	816.4	823.5
35°	1928.3	1718.4	1497.2	972.3	779.7	778.7	771.5	746.1	723.6	723.6	718.5
37.5°	2115.9	1864.1	1506.4	810.3	700.2	705.3	684.9	652.3	635.0	624.8	627.8
40°	2307.5	2030.3	1505.4	668.6	630.9	631.9	616.6	576.9	534.1	508.6	514.7
42.5°	2492.0	2181.1	1478.9	593.2	574.8	571.8	559.5	505.5	469.9	449.5	450.5
45°	2639.7	2337.0	1438.1	548.3	523.9	529.0	501.5	468.8	436.2	417.9	416.9
47.5°	2787.5	2455.3	1372.9	520.8	486.2	477.0	465.8	443.4	418.9	398.5	399.5
50°	2922.1	2556.2	1311.7	502.5	451.5	428.1	430.1	416.9	395.5	377.1	376.1
52.5°	3016.9	2622.4	1278.1	492.3	409.7	384.2	391.4	384.2	363.9	350.6	349.6
55°	3111.6	2673.4	1289.3	479.0	363.9	343.5	355.7	353.7	342.5	338.4	339.4
57.5°	3188.1	2712.1	1329.0	454.6	320.0	307.8	328.2	322.1	313.9	314.9	314.9
60°	3262.5	2762.1	1375.9	398.5	282.3	283.3	302.7	291.5	286.4	295.6	296.6
62.5°	3339.9	2816.1	1337.2	317.0	249.7	256.8	279.3	270.1	272.1	285.4	289.5
65°	3330.8	2811.0	1089.5	259.9	221.2	235.4	269.1	266.0	267.0	272.1	274.2
67.5°	3143.2	2631.6	749.1	221.2	200.8	218.1	260.9	248.7	249.7	246.6	247.7
68°	3080.0	2568.4	660.4	215.1	196.7	214.0	256.8	245.6	246.6	243.6	242.6
70°	2735.6	2199.5	417.9	189.6	182.4	202.8	236.5	232.4	231.4	229.3	229.3
72.5°	2085.3	1623.6	220.1	164.1	166.1	185.5	211.0	219.1	214.0	215.1	221.2
75°	1381.0	976.4	152.9	140.7	145.7	159.0	187.5	203.8	198.7	201.8	198.7
77.5°	730.8	525.9	122.3	119.2	119.2	128.4	154.9	180.4	180.4	178.4	175.3
80°	239.5	185.5	97.8	93.8	95.8	100.9	124.3	147.8	150.8	146.8	144.7
82.5°	80.5	85.6	73.4	68.3	70.3	74.4	93.8	113.1	114.2	106.0	104.0
85°	49.9	57.1	45.9	44.8	44.8	45.9	57.1	62.2	57.1	51.0	53.0
87.5°	23.4	28.5	21.4	18.3	15.3	13.2	10.2	4.1	4.1	2.0	2.0
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)