

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: P1210173

Luminaire Tested: **ARCH2-40-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-40-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6564 lumens
Efficiency: N/A
Efficacy: 148.8 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): 44.1
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

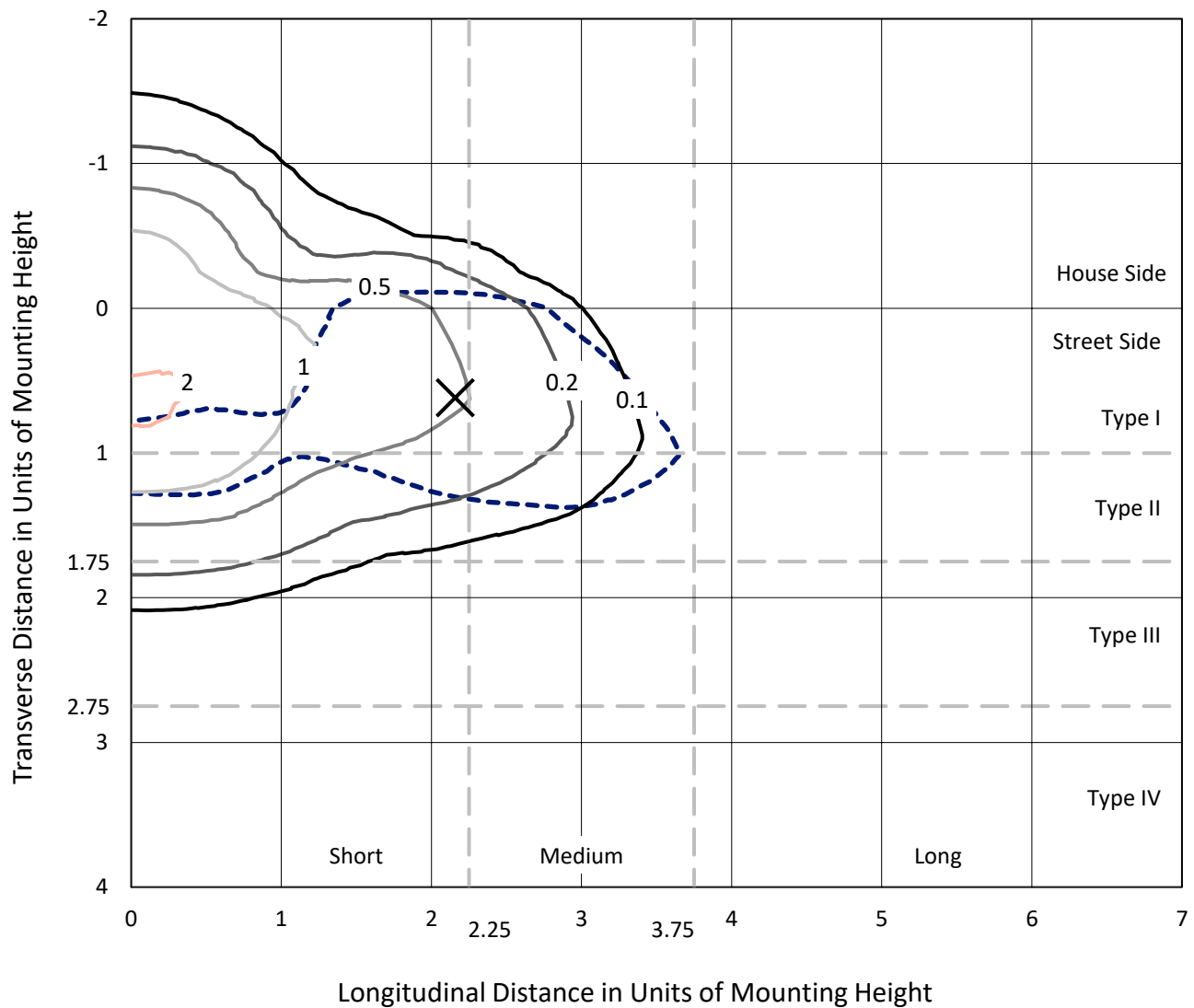


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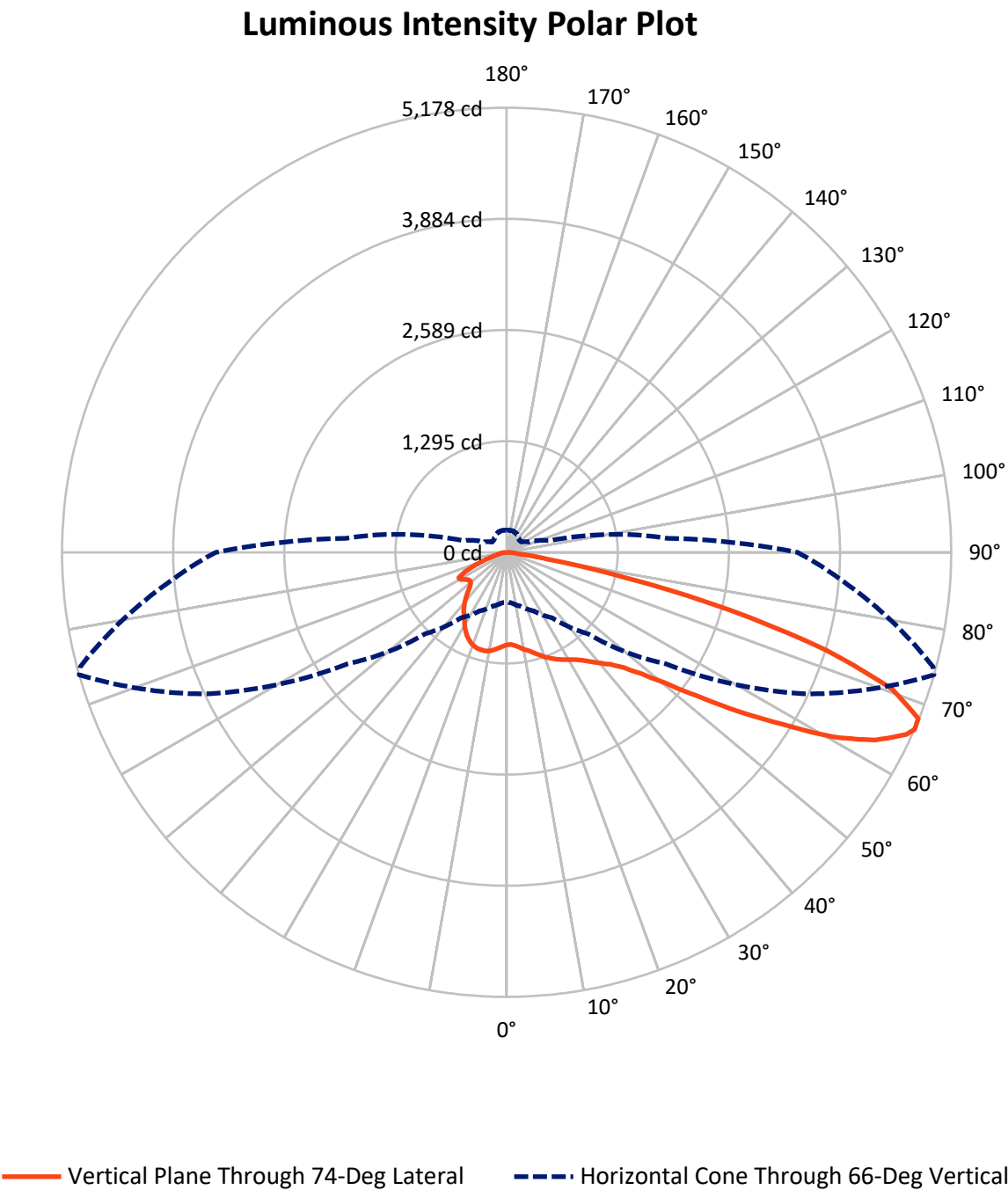
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type II - Short - N/A

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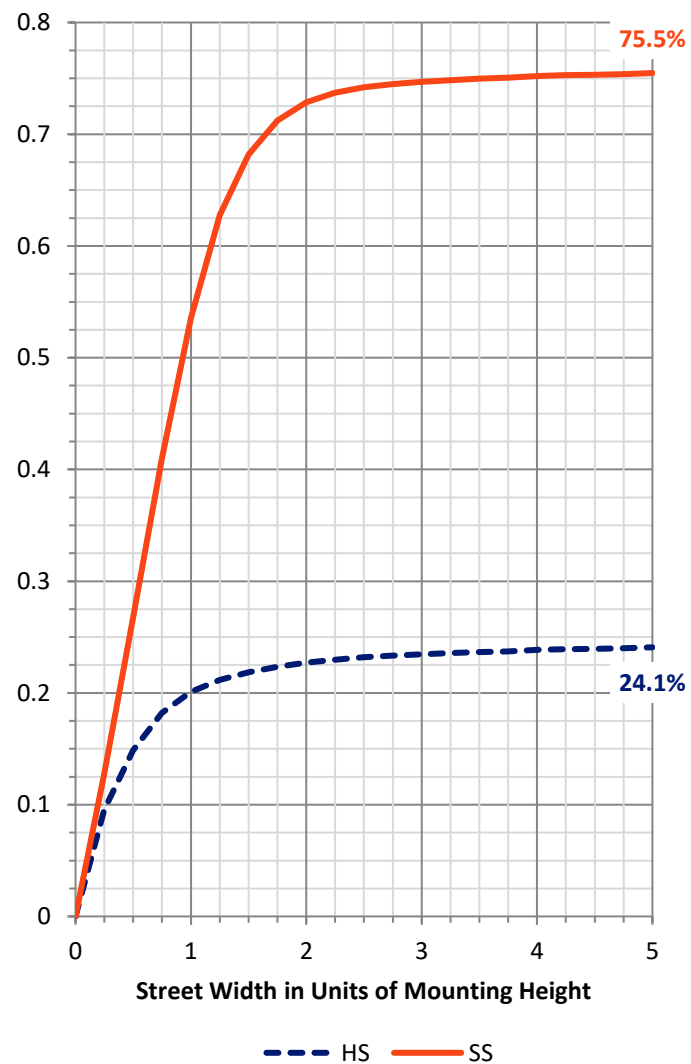
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1598.5	0.0	1598.5
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	4965.5	0.0	4965.5
	% Fixture	75.6	0.0	75.6
Total	Lumens	6564.0	0.0	6564.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.6	1.6
10°-20°	315.7	4.8
20°-30°	592.3	9.0
30°-40°	911.2	13.9
40°-50°	1225.6	18.7
50°-60°	1449.4	22.1
60°-70°	1340.8	20.4
70°-80°	564.1	8.6
80°-90°	62.4	1.0
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°	6564.0	100.0
0°-180°	6564.0	100.0

Coefficient of Utilization



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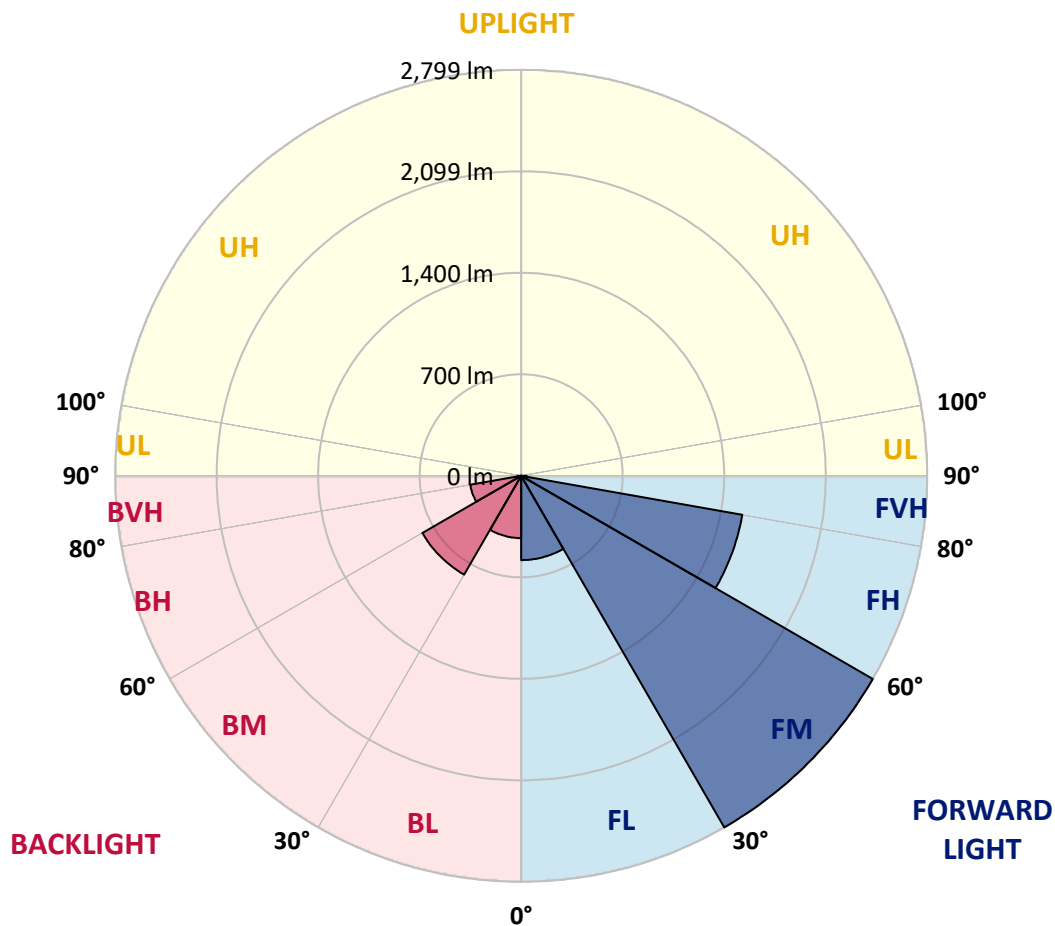
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	581.0	8.9			
FM	(30°-60°)	2799.2	42.6			
FH	(60°-80°)	1548.0	23.6			G1/1800
FVH	(80°-90°)	37.3	0.6			G1/100
BL	(0°-30°)	429.6	6.5	B1/500		
BM	(30°-60°)	786.9	12.0	B1/1000		
BH	(60°-80°)	356.8	5.4	B1/500		G1/500
BVH	(80°-90°)	25.1	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1
2.5°	1072.7	1071.0	1074.4	1079.4	1082.0	1077.7	1076.1	1075.2	1075.2	1072.7	1076.9
5°	1022.0	1021.2	1028.8	1038.0	1055.8	1068.5	1085.3	1095.5	1092.1	1087.0	1090.4
7.5°	956.1	954.4	963.7	981.5	1006.0	1033.8	1075.2	1107.3	1120.0	1118.3	1117.4
10°	981.5	979.8	978.9	973.9	982.3	1009.3	1052.4	1109.0	1152.1	1152.9	1153.8
12.5°	1069.3	1073.5	1069.3	1053.3	1034.7	1024.5	1049.9	1113.2	1179.1	1184.2	1205.3
15°	1189.2	1185.0	1176.6	1158.0	1129.3	1098.9	1080.3	1132.6	1218.0	1222.2	1268.6
17.5°	1294.8	1298.2	1293.1	1275.4	1241.6	1201.9	1145.3	1166.4	1259.3	1271.2	1336.2
20°	1409.7	1423.2	1416.4	1394.5	1366.6	1307.5	1236.5	1215.4	1305.0	1313.4	1406.3
22.5°	1542.3	1556.7	1544.0	1522.9	1500.1	1427.4	1336.2	1275.4	1343.0	1360.7	1473.9
25°	1701.1	1714.6	1702.8	1669.8	1641.1	1552.4	1443.5	1343.0	1380.1	1399.6	1528.8
27.5°	1826.9	1837.1	1848.0	1828.6	1784.7	1692.6	1555.0	1413.1	1417.3	1437.6	1579.5
30°	1939.3	1964.6	1973.9	1976.4	1939.3	1836.2	1669.0	1485.7	1449.4	1470.5	1630.1
32.5°	2093.0	2131.0	2115.8	2131.0	2109.0	1971.4	1787.2	1560.9	1490.8	1510.2	1678.3
35°	2317.7	2348.1	2308.4	2296.5	2261.1	2108.2	1901.3	1638.6	1545.7	1566.8	1723.9
37.5°	2559.2	2593.9	2536.4	2489.1	2421.6	2243.3	1999.2	1740.8	1621.7	1638.6	1766.1
40°	2770.4	2799.1	2749.3	2686.8	2573.6	2362.4	2083.7	1812.6	1697.7	1718.8	1815.1
42.5°	2965.5	2984.1	2928.3	2868.4	2717.2	2469.7	2174.9	1888.6	1786.4	1806.7	1854.8
45°	3163.1	3177.5	3099.8	3014.5	2837.1	2567.7	2275.4	1995.0	1916.5	1943.5	1919.0
47.5°	3198.6	3202.8	3189.3	3131.9	2931.7	2661.4	2399.6	2137.8	2115.0	2144.5	2029.6
50°	2952.8	2990.8	3074.5	3131.0	2969.7	2740.0	2523.8	2342.2	2388.6	2426.6	2259.4
52.5°	2475.6	2511.9	2705.3	2919.9	2878.5	2757.7	2657.2	2601.5	2774.6	2820.2	2571.9
55°	1972.2	2004.3	2208.7	2517.8	2583.7	2676.6	2799.9	2932.6	3267.0	3297.4	2914.8
57.5°	1624.2	1642.0	1788.1	2085.4	2191.0	2417.3	2876.8	3326.2	3767.9	3814.3	3213.0
60°	1332.0	1351.4	1460.4	1705.3	1845.5	2046.5	2816.0	3714.7	4365.9	4365.9	3595.6
62.5°	1002.6	1019.5	1120.8	1312.6	1548.2	1732.3	2621.7	3972.3	4816.9	4796.7	3872.6
65°	688.4	701.9	775.4	902.9	1114.9	1476.4	2356.5	3975.7	5115.9	5088.9	3990.9
66°	577.7	589.6	652.1	755.1	933.3	1339.6	2262.8	3903.9	5178.4	5140.4	3941.0
67.5°	456.1	464.5	505.9	566.7	684.1	1084.5	2115.0	3700.3	5172.5	5149.7	3814.3
70°	326.0	331.9	362.3	375.0	404.6	627.6	1680.0	3240.8	4757.8	4764.6	3316.0
72.5°	252.5	261.8	280.4	283.0	276.2	333.6	1019.5	2703.7	3892.1	3889.5	2461.3
75°	203.6	208.6	217.9	223.0	221.3	215.4	431.6	2017.0	2679.2	2710.4	1378.4
77.5°	160.5	159.6	168.1	174.8	179.9	168.9	197.6	1182.5	1404.6	1364.9	517.8
80°	118.2	118.2	130.1	132.6	140.2	141.9	131.8	456.1	482.3	438.4	134.3
82.5°	77.7	77.7	90.4	92.1	99.7	110.6	95.4	136.8	133.5	126.7	60.8
85°	42.2	40.5	44.8	50.7	54.9	65.0	57.4	68.4	70.1	69.3	40.5
87.5°	8.4	7.6	11.8	13.5	15.2	20.3	18.6	27.9	38.9	38.0	17.7
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°	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1
2.5°	1082.8	1082.0	1091.3	1102.2	1114.9	1122.5	1125.9	1131.8	1127.6	1129.3	1134.3
5°	1098.9	1101.4	1114.9	1129.3	1135.2	1131.0	1121.7	1118.3	1110.7	1109.0	1107.3
7.5°	1122.5	1126.7	1140.2	1143.6	1125.9	1096.3	1075.2	1063.4	1050.7	1047.3	1045.7
10°	1161.4	1163.9	1167.3	1132.6	1088.7	1049.0	1022.8	1011.9	1003.4	996.7	998.4
12.5°	1210.4	1208.7	1182.5	1110.7	1048.2	1007.6	989.9	983.1	977.2	973.0	972.2
15°	1272.0	1260.2	1185.0	1080.3	1010.2	976.4	963.7	961.2	954.4	954.4	953.6
17.5°	1334.5	1304.1	1183.3	1048.2	973.9	955.3	947.7	946.0	944.3	943.5	946.0
20°	1397.0	1343.0	1169.8	1008.5	948.5	937.5	935.8	936.7	935.0	937.5	935.8
22.5°	1451.9	1368.3	1144.5	966.3	930.8	929.9	925.7	927.4	933.3	934.2	936.7
25°	1494.1	1377.6	1107.3	927.4	918.1	916.4	921.5	928.2	933.3	934.2	938.4
27.5°	1528.8	1372.5	1060.9	897.0	896.2	905.4	920.6	923.2	924.0	924.0	920.6
30°	1555.0	1361.5	1001.7	863.2	867.4	890.2	904.6	904.6	897.8	896.2	901.2
32.5°	1560.9	1347.2	937.5	828.6	835.3	862.4	880.1	874.2	866.6	866.6	870.0
35°	1565.9	1327.8	886.0	781.3	791.4	823.5	840.4	828.6	820.1	817.6	816.8
37.5°	1564.3	1320.2	839.6	721.3	734.8	766.1	777.1	766.1	753.4	747.5	755.1
40°	1565.9	1315.1	781.3	655.4	668.9	687.5	701.9	693.4	681.6	666.4	674.0
42.5°	1576.1	1321.8	717.1	591.2	591.2	601.4	625.9	620.0	591.2	585.3	592.1
45°	1630.1	1358.2	652.9	527.0	517.8	524.5	549.9	524.5	506.8	506.8	512.7
47.5°	1761.1	1425.7	596.3	470.5	448.5	462.0	468.8	445.1	431.6	428.2	434.1
50°	2028.0	1560.9	562.5	424.0	397.0	407.1	402.9	402.0	388.5	390.2	393.6
52.5°	2433.4	1824.4	552.4	401.2	367.4	369.9	365.7	367.4	364.9	373.3	375.9
55°	2875.1	2102.3	565.1	404.6	347.1	329.4	331.1	339.5	349.7	363.2	365.7
57.5°	3205.4	2241.6	598.0	427.4	321.8	294.8	299.0	315.0	334.5	345.5	351.4
60°	3451.2	2224.8	646.1	433.3	291.4	263.5	271.1	294.8	311.7	321.0	326.9
62.5°	3531.4	2119.2	658.0	390.2	251.7	234.0	252.5	277.0	284.6	294.8	299.0
65°	3465.5	1969.7	571.8	316.7	221.3	212.0	239.0	257.6	267.7	272.8	273.7
66°	3387.8	1880.1	525.4	288.0	210.3	205.2	234.0	249.2	259.3	258.5	259.3
67.5°	3217.2	1692.6	450.2	247.5	194.3	195.1	225.5	235.7	239.0	236.5	236.5
70°	2636.9	1191.8	322.6	187.5	170.6	182.4	202.7	205.2	212.8	209.5	209.5
72.5°	1625.9	585.3	216.2	143.6	152.0	170.6	169.8	178.2	196.0	201.0	204.4
75°	799.0	237.3	142.7	121.6	136.0	142.7	141.1	162.2	187.5	209.5	217.1
77.5°	303.2	118.2	99.7	106.4	109.8	107.3	112.3	147.0	187.5	227.2	234.8
80°	93.8	81.9	78.6	87.8	82.8	78.6	84.5	121.6	158.8	172.3	172.3
82.5°	56.6	64.2	60.8	60.0	55.7	56.6	60.8	87.0	122.5	128.4	128.4
85°	39.7	42.2	34.6	32.9	32.1	31.3	31.3	50.7	72.6	71.8	74.3
87.5°	15.2	16.9	12.7	12.7	11.8	8.4	6.8	8.4	8.4	5.9	4.2
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)