

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: P799625

Luminaire Tested: **ARCH2-40-727-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-40-727-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5983 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

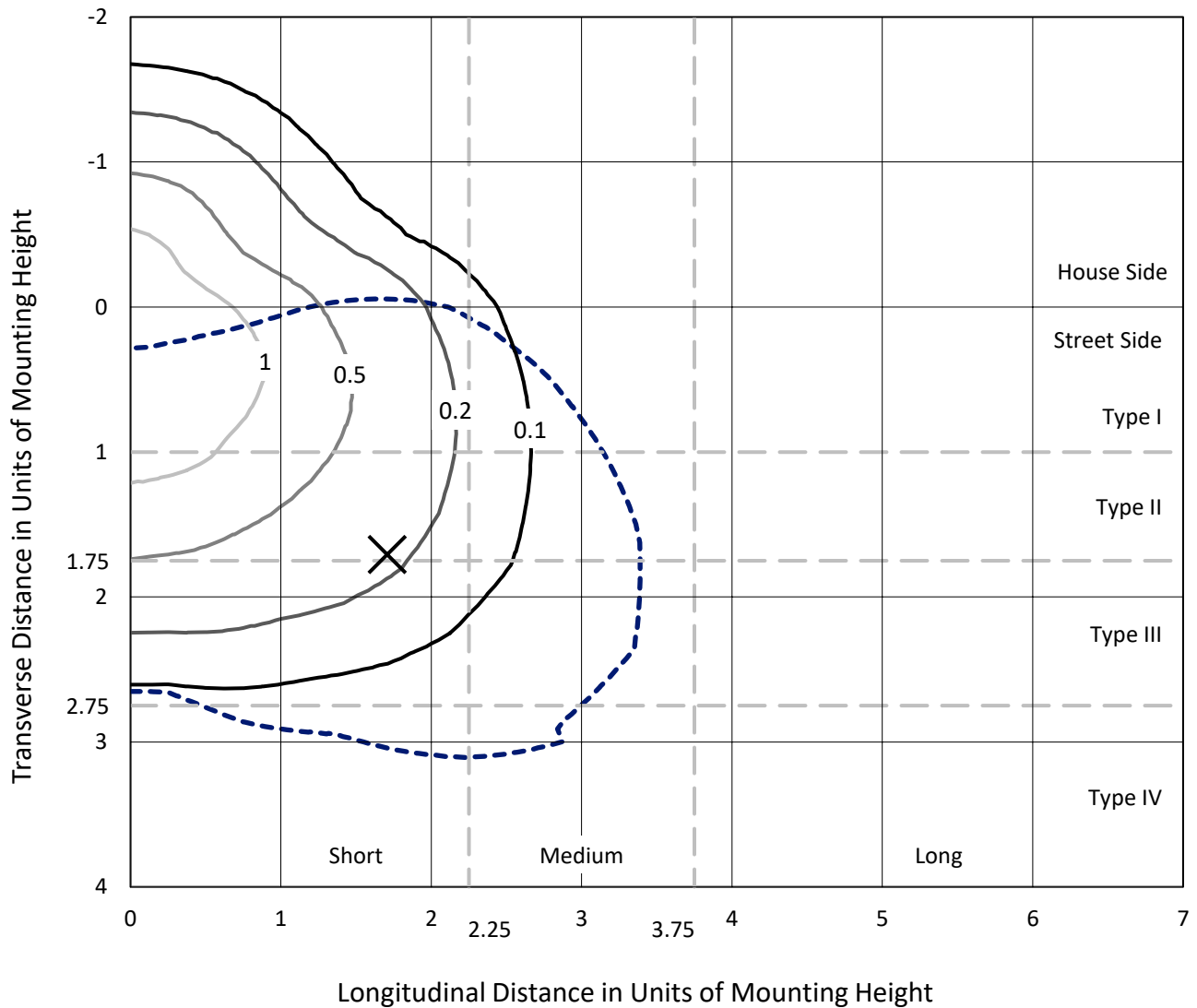
Input Watts (W): 44.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

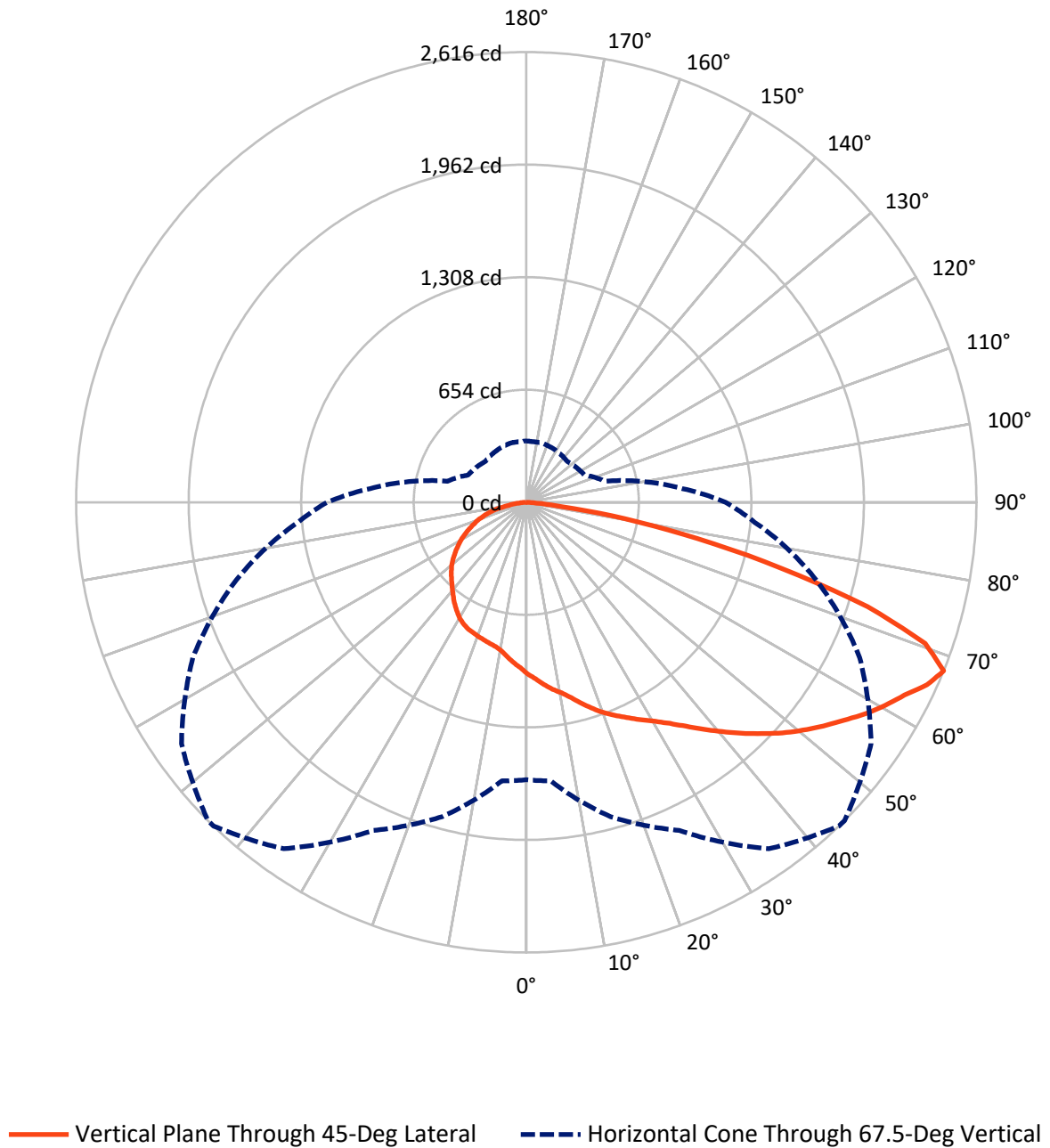
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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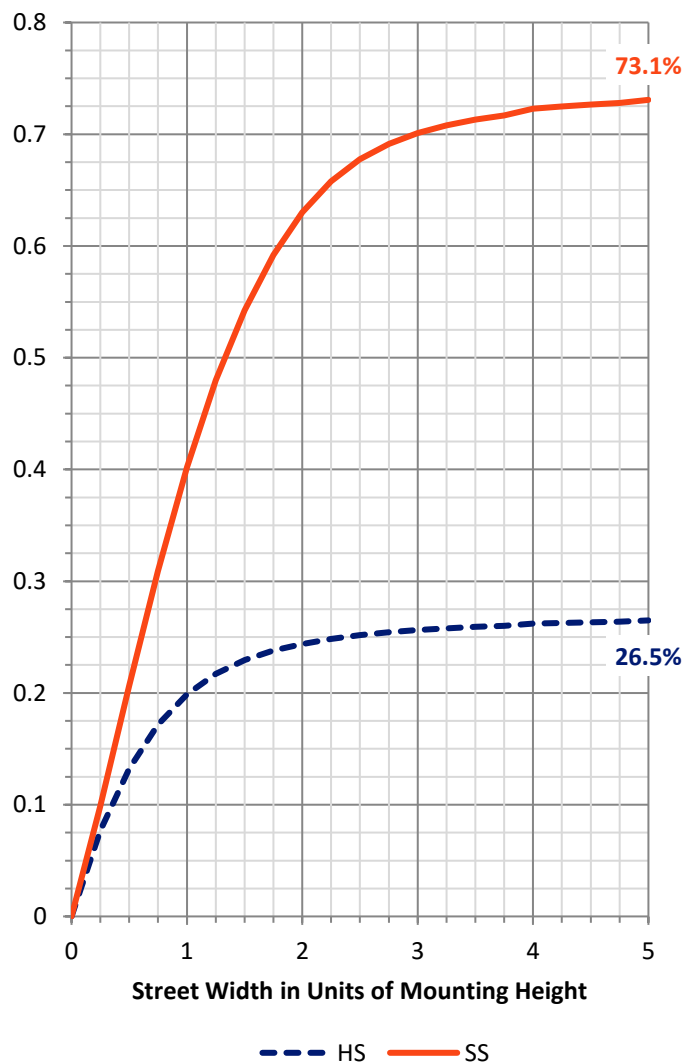
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1598.4	0.0	1598.4
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	4384.6	0.0	4384.6
	% Fixture	73.3	0.0	73.3
Total	Lumens	5983.0	0.0	5983.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.5	1.6
10°-20°	295.1	4.9
20°-30°	509.4	8.5
30°-40°	751.2	12.6
40°-50°	1017.8	17.0
50°-60°	1244.0	20.8
60°-70°	1283.0	21.4
70°-80°	702.7	11.7
80°-90°	84.2	1.4
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°	5983.0	100.0
0°-180°	5983.0	100.0

Coefficient of Utilization



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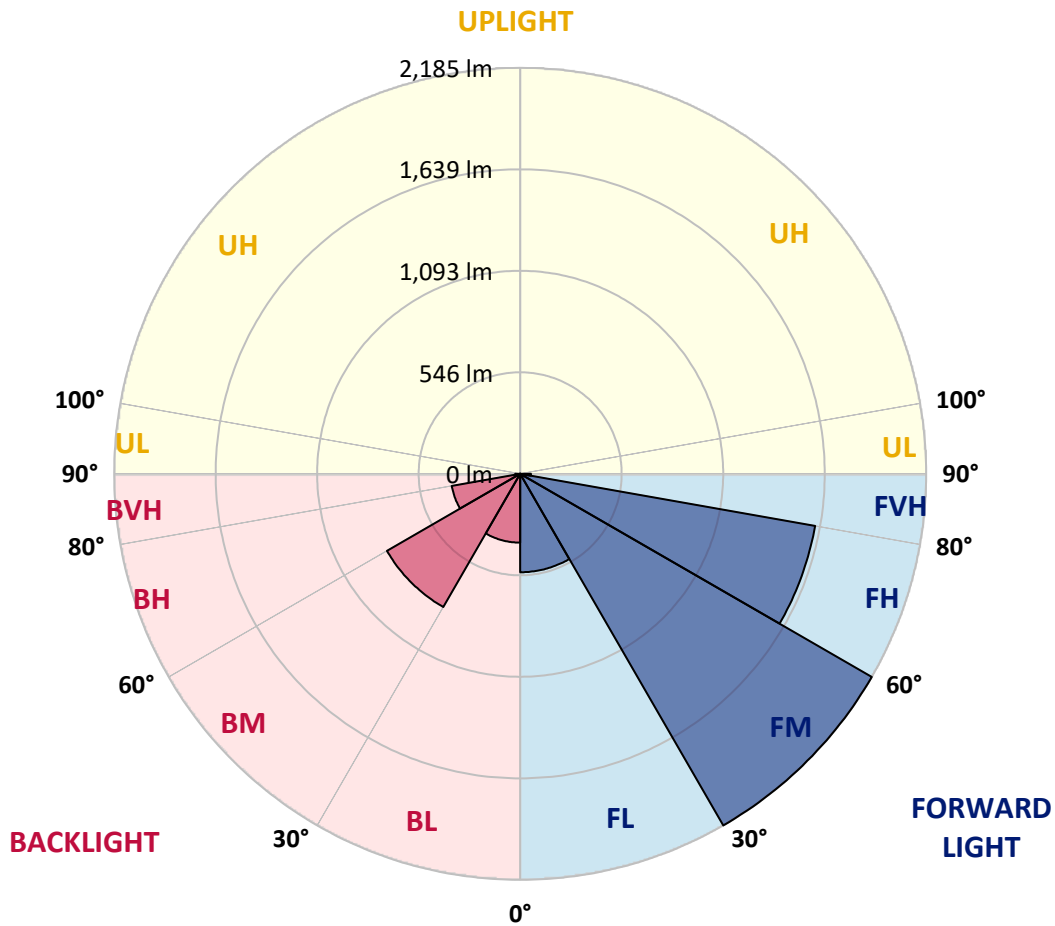
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	529.7	8.9			
FM (30°-60°)	2185.1	36.5			
FH (60°-80°)	1611.9	26.9			G1/1800
FVH (80°-90°)	58.0	1.0			G1/100
BL (0°-30°)	370.4	6.2	B1/500		
BM (30°-60°)	827.9	13.8	B1/1000		
BH (60°-80°)	373.8	6.2	B1/500		G1/500
BVH (80°-90°)	26.2	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	997.9	997.9	997.9	997.9	997.9	997.9	997.9	997.9	997.9	997.9	997.9
2.5°	1041.6	1040.6	1042.5	1036.1	1027.9	1027.0	1027.0	1021.5	1015.1	1002.4	992.4
5°	1090.7	1088.9	1089.8	1080.7	1069.8	1064.3	1063.4	1051.6	1037.0	1017.0	998.8
7.5°	1136.2	1134.4	1133.5	1123.5	1107.1	1098.0	1097.1	1079.8	1062.5	1031.5	1005.1
10°	1179.0	1177.2	1175.4	1161.7	1141.7	1128.0	1126.2	1104.4	1082.5	1044.3	1010.6
12.5°	1233.7	1230.0	1228.2	1211.8	1182.7	1168.1	1165.4	1136.2	1108.9	1062.5	1021.5
15°	1291.0	1288.3	1285.6	1270.1	1237.3	1218.2	1213.6	1177.2	1139.9	1086.2	1037.9
17.5°	1333.8	1331.1	1331.1	1317.4	1287.4	1265.5	1261.9	1218.2	1171.7	1108.0	1050.7
20°	1360.2	1357.5	1360.2	1352.0	1329.3	1311.0	1307.4	1259.1	1203.6	1128.0	1061.6
22.5°	1379.3	1376.6	1381.1	1377.5	1361.1	1350.2	1347.5	1300.1	1236.4	1149.0	1072.5
25°	1413.0	1413.0	1413.0	1406.6	1391.2	1387.5	1387.5	1346.6	1278.3	1176.3	1088.9
27.5°	1480.4	1476.7	1472.2	1454.0	1427.6	1426.7	1432.1	1393.9	1326.5	1211.8	1108.9
30°	1579.6	1577.8	1560.5	1522.3	1477.7	1473.1	1476.7	1444.9	1378.4	1249.1	1131.7
32.5°	1708.0	1701.6	1666.1	1608.8	1545.0	1524.1	1531.4	1497.7	1433.0	1287.4	1153.5
35°	1799.0	1800.9	1775.4	1723.5	1647.9	1592.4	1597.8	1556.9	1492.2	1330.2	1180.9
37.5°	1903.7	1910.1	1871.9	1832.7	1762.6	1667.9	1673.4	1617.9	1551.4	1383.9	1210.0
40°	2048.5	2035.8	1971.1	1924.7	1847.3	1747.1	1751.7	1686.1	1619.7	1434.9	1243.7
42.5°	2169.6	2146.8	2068.5	2009.4	1916.5	1830.9	1835.5	1759.9	1688.9	1491.3	1281.0
45°	2343.5	2280.7	2167.8	2138.6	1987.5	1912.9	1917.4	1838.2	1761.7	1551.4	1321.1
47.5°	2444.6	2344.4	2272.5	2257.0	2065.8	1997.5	2003.0	1921.0	1840.0	1619.7	1362.9
50°	2438.2	2373.5	2352.6	2314.4	2135.0	2076.7	2082.2	2006.6	1919.2	1687.1	1403.0
52.5°	2396.3	2408.1	2397.2	2333.5	2204.2	2153.2	2159.6	2091.3	2000.3	1749.9	1440.3
55°	2460.9	2469.1	2448.2	2364.4	2280.7	2229.7	2237.0	2180.5	2080.4	1805.4	1472.2
57.5°	2538.3	2509.2	2488.3	2419.1	2359.9	2312.5	2320.7	2271.6	2149.6	1850.0	1496.8
60°	2534.7	2473.7	2494.6	2422.7	2413.6	2389.0	2396.3	2346.2	2202.4	1882.8	1506.8
62.5°	2348.0	2315.3	2420.9	2396.3	2457.3	2457.3	2466.4	2391.7	2234.2	1896.5	1501.3
65°	2023.9	2025.7	2211.5	2313.4	2509.2	2551.1	2558.4	2420.0	2216.0	1856.4	1450.3
67.5°	1612.4	1624.2	1891.0	2103.1	2457.3	2614.8	2615.7	2445.5	2137.7	1743.5	1332.0
70°	1179.9	1189.0	1504.1	1761.7	2212.4	2473.7	2459.1	2373.5	1967.5	1546.9	1147.2
72.5°	797.6	805.7	1129.9	1352.9	1815.4	2106.8	2074.9	2097.7	1677.0	1271.0	922.3
75°	536.3	546.3	803.9	967.8	1335.6	1599.7	1528.6	1588.7	1297.4	962.3	672.8
77.5°	337.8	344.1	510.8	634.6	912.3	1088.9	1017.9	1018.8	747.5	518.0	361.4
80°	214.9	216.7	309.6	366.0	528.1	654.6	579.0	470.7	336.9	275.0	215.8
82.5°	124.7	122.0	184.8	206.7	251.3	248.6	205.8	194.8	147.5	137.5	110.2
85°	50.1	46.4	81.0	75.6	76.5	81.0	60.1	60.1	48.3	37.3	27.3
87.5°	10.0	10.0	10.9	10.0	10.0	10.9	8.2	8.2	7.3	7.3	7.3
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°	997.9	997.9	997.9	997.9	997.9	997.9	997.9	997.9	997.9	997.9	997.9
2.5°	990.6	988.7	984.2	972.4	966.0	962.3	956.9	955.1	954.1	955.1	957.8
5°	993.3	986.9	974.2	955.1	942.3	934.1	925.0	921.4	918.6	918.6	921.4
7.5°	995.1	985.1	963.3	935.0	916.8	904.1	893.1	888.6	887.7	890.4	891.3
10°	996.0	981.5	950.5	915.0	891.3	874.9	864.0	861.3	864.0	869.5	870.4
12.5°	1002.4	982.4	943.2	901.3	873.1	856.7	848.5	848.5	855.8	865.8	866.7
15°	1013.3	988.7	939.6	890.4	861.3	846.7	844.0	848.5	859.5	874.9	876.8
17.5°	1021.5	992.4	931.4	875.9	845.8	836.7	841.3	852.2	867.7	888.6	890.4
20°	1027.0	992.4	919.6	858.6	830.3	828.5	841.3	858.6	874.9	899.5	902.3
22.5°	1032.4	990.6	905.9	837.6	813.0	818.5	842.2	864.0	880.4	906.8	911.4
25°	1042.5	993.3	892.2	816.7	794.8	810.3	841.3	867.7	885.0	912.3	919.6
27.5°	1056.1	999.7	882.2	797.6	776.6	797.6	834.9	866.7	885.0	911.4	919.6
30°	1070.7	1007.0	870.4	776.6	755.7	779.3	821.2	856.7	877.7	902.3	912.3
32.5°	1086.2	1015.1	860.4	753.9	730.2	754.8	801.2	841.3	864.0	886.8	897.7
35°	1107.1	1029.7	854.9	735.6	707.4	729.3	775.7	821.2	845.8	866.7	879.5
37.5°	1132.6	1047.9	852.2	717.4	682.8	701.0	748.4	796.6	823.0	840.3	852.2
40°	1161.7	1070.7	851.3	700.1	658.3	671.9	720.2	768.4	793.9	807.6	817.6
42.5°	1194.5	1096.2	849.4	682.8	633.7	644.6	692.9	740.2	762.0	773.9	783.0
45°	1229.1	1121.7	845.8	661.9	607.3	620.0	664.6	706.5	729.3	739.3	749.3
47.5°	1263.7	1147.2	838.5	638.2	583.6	595.4	634.6	671.0	689.2	698.3	708.3
50°	1297.4	1169.9	821.2	610.9	559.0	569.9	600.0	624.6	638.2	645.5	655.5
52.5°	1327.4	1185.4	796.6	579.0	534.4	539.9	559.9	580.9	591.8	592.7	601.8
55°	1352.9	1193.6	761.1	546.3	508.0	508.9	519.9	536.3	540.8	537.2	543.5
57.5°	1367.5	1189.0	722.0	512.6	480.7	477.1	485.3	493.5	494.4	485.3	491.6
60°	1371.1	1168.1	671.0	478.9	453.4	443.4	446.1	444.3	442.5	438.8	444.3
62.5°	1352.9	1123.5	614.6	446.1	424.3	408.8	407.9	407.0	409.7	410.6	411.5
65°	1286.5	1039.7	547.2	412.4	393.3	372.4	371.5	382.4	386.0	380.6	382.4
67.5°	1158.1	911.4	473.4	373.3	354.2	336.0	343.2	349.6	356.0	354.2	356.0
70°	976.0	748.4	406.1	329.6	311.4	301.4	309.6	315.0	315.9	314.1	315.9
72.5°	767.5	584.5	343.2	285.0	268.6	264.0	274.0	278.6	286.8	290.4	291.3
75°	554.5	431.6	281.3	236.7	223.1	223.1	232.2	240.4	247.6	243.1	240.4
77.5°	309.6	257.7	202.1	163.0	165.7	178.4	182.1	191.2	198.5	197.6	195.7
80°	187.6	161.1	136.6	105.6	104.7	114.7	138.4	153.9	157.5	149.3	148.4
82.5°	97.4	84.7	72.8	59.2	65.6	76.5	80.1	96.5	106.5	102.9	107.4
85°	24.6	23.7	26.4	27.3	33.7	37.3	41.0	48.3	31.9	15.5	15.5
87.5°	7.3	7.3	9.1	9.1	11.8	14.6	13.7	13.7	7.3	0.9	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)