

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: P799609

Luminaire Tested: **ARCH2-40-722-U-T4W**

Issue Date: 4/4/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799609  
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: ARCH2-40-722-U-T4W  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

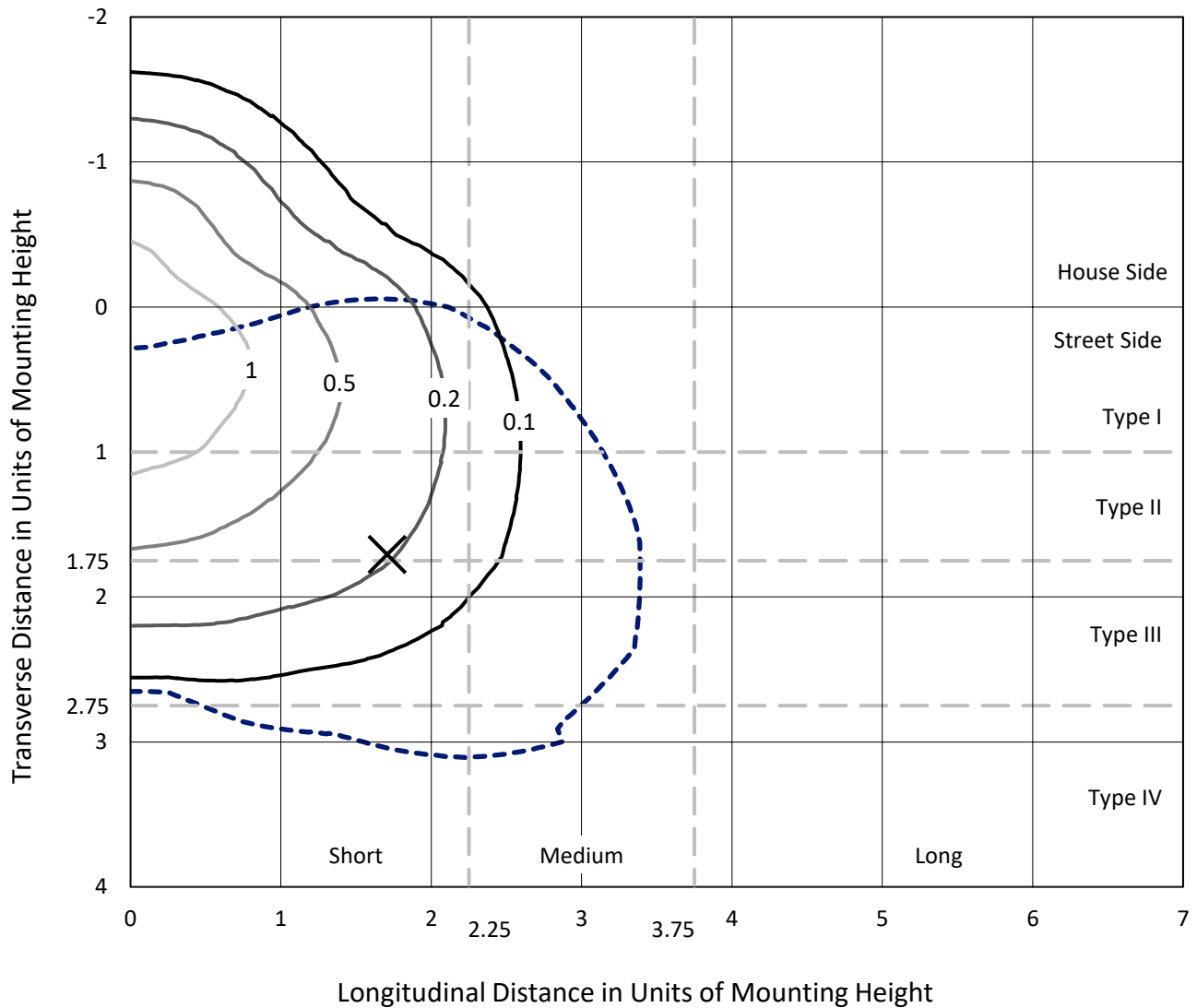
Lumens per Lamp: N/A  
Luminaire Lumens: 5425 lumens  
Efficiency: N/A  
Efficacy: 123.0 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 44.1  
Input Voltage (V): NR  
Input Current (Ain): 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

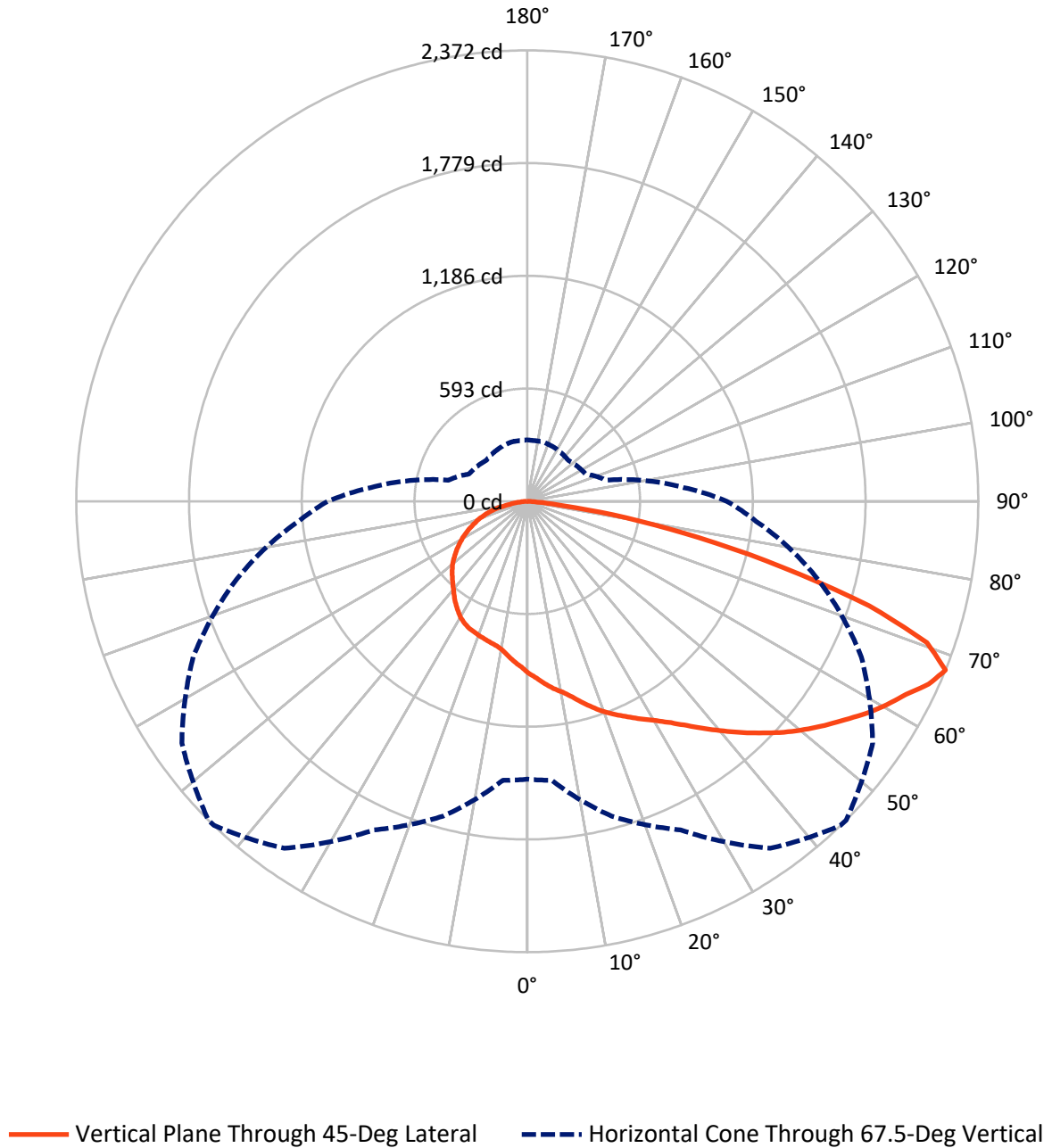
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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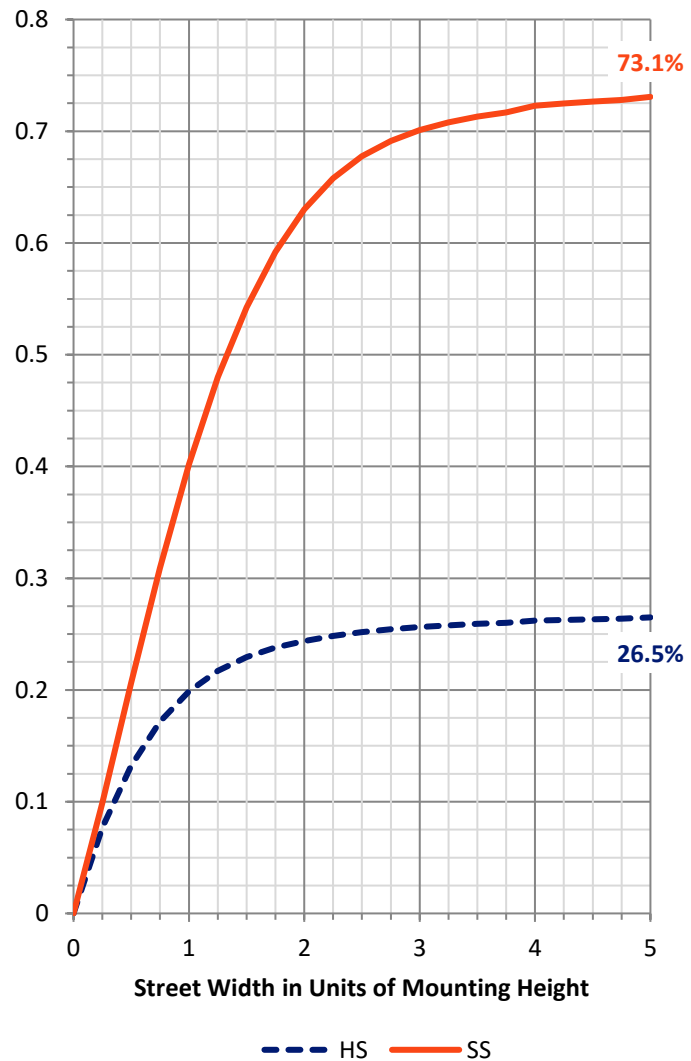
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1449.3	0.0	1449.3
	% Fixture	26.7	0.0	26.7
<b>Street Side</b>	Lumens	3975.7	0.0	3975.7
	% Fixture	73.3	0.0	73.3
<b>Total</b>	Lumens	5425.0	0.0	5425.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.6	1.6
10°-20°	267.6	4.9
20°-30°	461.9	8.5
30°-40°	681.2	12.6
40°-50°	922.9	17.0
50°-60°	1127.9	20.8
60°-70°	1163.3	21.4
70°-80°	637.2	11.7
80°-90°	76.4	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°	5425.0	100.0
0°-180°	5425.0	100.0



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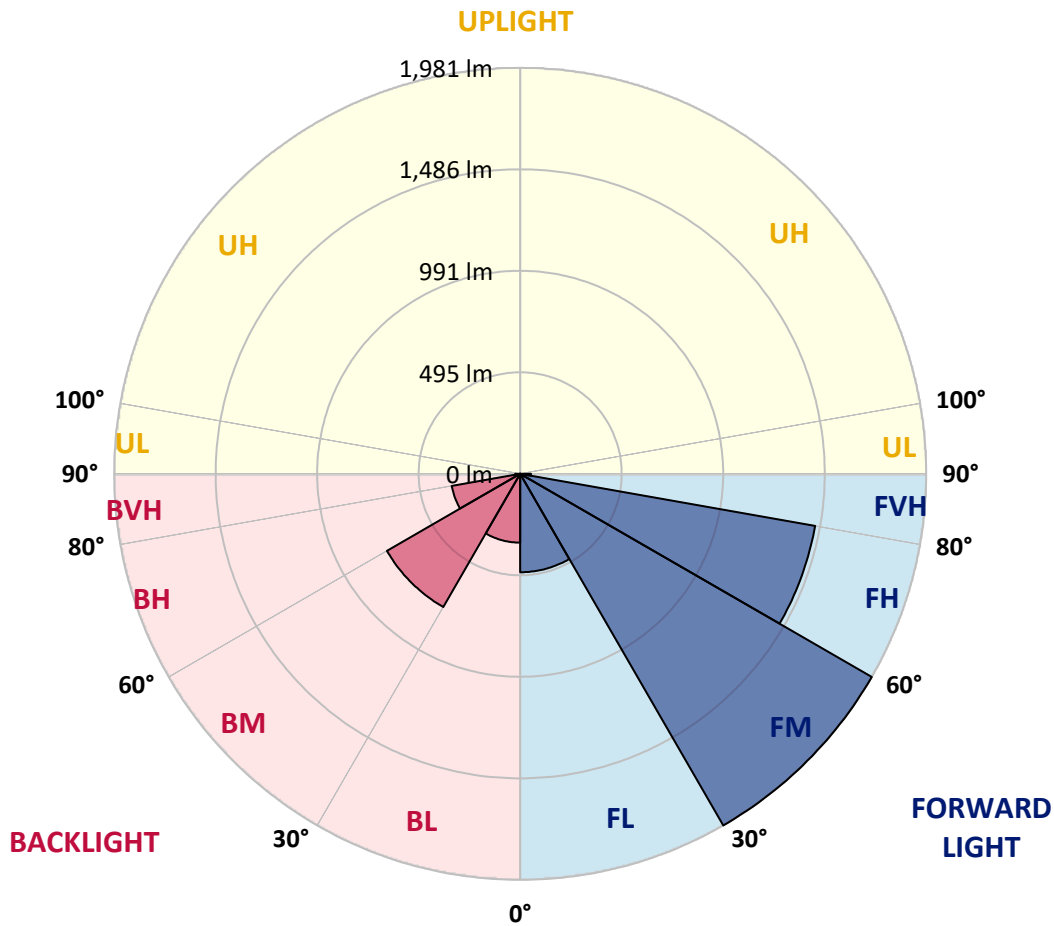
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	480.3	8.9			
FM (30°-60°)	1981.3	36.5			
FH (60°-80°)	1461.6	26.9			G1/1800
FVH (80°-90°)	52.6	1.0			G1/100
BL (0°-30°)	335.9	6.2	B1/500		
BM (30°-60°)	750.7	13.8	B1/1000		
BH (60°-80°)	338.9	6.2	B1/500		G1/500
BVH (80°-90°)	23.8	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°	904.8	904.8	904.8	904.8	904.8	904.8	904.8	904.8	904.8	904.8	904.8
2.5°	944.4	943.6	945.2	939.5	932.0	931.2	931.2	926.3	920.5	908.9	899.8
5°	989.0	987.3	988.2	979.9	970.0	965.1	964.2	953.5	940.3	922.1	905.6
7.5°	1030.3	1028.6	1027.8	1018.7	1003.9	995.6	994.8	979.1	963.4	935.3	911.4
10°	1069.1	1067.4	1065.8	1053.4	1035.2	1022.8	1021.2	1001.4	981.6	946.9	916.3
12.5°	1118.6	1115.3	1113.6	1098.8	1072.4	1059.2	1056.7	1030.3	1005.5	963.4	926.3
15°	1170.6	1168.1	1165.7	1151.6	1121.9	1104.6	1100.4	1067.4	1033.6	984.9	941.1
17.5°	1209.4	1206.9	1206.9	1194.6	1167.3	1147.5	1144.2	1104.6	1062.5	1004.7	952.7
20°	1233.4	1230.9	1233.4	1225.9	1205.3	1188.8	1185.5	1141.7	1091.4	1022.8	962.6
22.5°	1250.7	1248.2	1252.3	1249.0	1234.2	1224.3	1221.8	1178.9	1121.1	1041.8	972.5
25°	1281.2	1281.2	1281.2	1275.5	1261.4	1258.1	1258.1	1221.0	1159.1	1066.6	987.3
27.5°	1342.3	1339.0	1334.9	1318.4	1294.4	1293.6	1298.6	1263.9	1202.8	1098.8	1005.5
30°	1432.3	1430.7	1415.0	1380.3	1339.8	1335.7	1339.0	1310.1	1249.9	1132.6	1026.1
32.5°	1548.7	1542.9	1510.7	1458.7	1400.9	1381.9	1388.6	1358.0	1299.4	1167.3	1046.0
35°	1631.3	1632.9	1609.8	1562.7	1494.2	1443.9	1448.8	1411.7	1353.1	1206.1	1070.7
37.5°	1726.2	1732.0	1697.3	1661.8	1598.2	1512.4	1517.3	1467.0	1406.7	1254.8	1097.1
40°	1857.5	1845.9	1787.3	1745.2	1675.0	1584.2	1588.3	1528.9	1468.6	1301.0	1127.7
42.5°	1967.3	1946.6	1875.6	1822.0	1737.8	1660.2	1664.3	1595.8	1531.4	1352.2	1161.5
45°	2124.9	2068.0	1965.6	1939.2	1802.1	1734.5	1738.6	1666.8	1597.4	1406.7	1197.9
47.5°	2216.6	2125.8	2060.5	2046.5	1873.1	1811.2	1816.2	1741.9	1668.4	1468.6	1235.8
50°	2210.8	2152.2	2133.2	2098.5	1935.9	1883.0	1888.0	1819.5	1740.2	1529.7	1272.2
52.5°	2172.8	2183.5	2173.6	2115.8	1998.6	1952.4	1958.2	1896.3	1813.7	1586.7	1306.0
55°	2231.4	2238.9	2219.9	2143.9	2068.0	2021.7	2028.3	1977.2	1886.3	1637.0	1334.9
57.5°	2301.6	2275.2	2256.2	2193.4	2139.8	2096.9	2104.3	2059.7	1949.1	1677.5	1357.2
60°	2298.3	2243.0	2262.0	2196.8	2188.5	2166.2	2172.8	2127.4	1997.0	1707.2	1366.3
62.5°	2129.1	2099.3	2195.1	2172.8	2228.1	2228.1	2236.4	2168.7	2025.9	1719.6	1361.3
65°	1835.2	1836.8	2005.2	2097.7	2275.2	2313.2	2319.8	2194.3	2009.4	1683.3	1315.1
67.5°	1462.0	1472.8	1714.6	1907.0	2228.1	2370.9	2371.8	2217.4	1938.4	1580.9	1207.8
70°	1069.9	1078.1	1363.8	1597.4	2006.1	2243.0	2229.8	2152.2	1784.0	1402.6	1040.2
72.5°	723.2	730.6	1024.5	1226.7	1646.1	1910.3	1881.4	1902.0	1520.6	1152.4	836.3
75°	486.2	495.3	728.9	877.5	1211.1	1450.5	1386.1	1440.6	1176.4	872.6	610.1
77.5°	306.3	312.1	463.1	575.4	827.2	987.3	922.9	923.8	677.8	469.7	327.7
80°	194.8	196.5	280.7	331.9	478.8	593.6	525.0	426.8	305.4	249.3	195.7
82.5°	113.1	110.6	167.6	187.4	227.8	225.4	186.6	176.7	133.7	124.7	99.9
85°	45.4	42.1	73.5	68.5	69.3	73.5	54.5	54.5	43.8	33.8	24.8
87.5°	9.1	9.1	9.9	9.1	9.1	9.9	7.4	7.4	6.6	6.6	6.6
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°	904.8	904.8	904.8	904.8	904.8	904.8	904.8	904.8	904.8	904.8	904.8
2.5°	898.2	896.5	892.4	881.7	875.9	872.6	867.6	866.0	865.2	866.0	868.5
5°	900.7	894.9	883.3	866.0	854.4	847.0	838.7	835.4	833.0	833.0	835.4
7.5°	902.3	893.2	873.4	847.8	831.3	819.8	809.9	805.7	804.9	807.4	808.2
10°	903.1	889.9	861.9	829.7	808.2	793.3	783.4	781.0	783.4	788.4	789.2
12.5°	908.9	890.8	855.3	817.3	791.7	776.8	769.4	769.4	776.0	785.1	785.9
15°	918.8	896.5	852.0	807.4	781.0	767.7	765.3	769.4	779.3	793.3	795.0
17.5°	926.3	899.8	844.5	794.2	766.9	758.7	762.8	772.7	786.7	805.7	807.4
20°	931.2	899.8	833.8	778.5	752.9	751.2	762.8	778.5	793.3	815.6	818.1
22.5°	936.2	898.2	821.4	759.5	737.2	742.2	763.6	783.4	798.3	822.2	826.4
25°	945.2	900.7	809.0	740.5	720.7	734.7	762.8	786.7	802.4	827.2	833.8
27.5°	957.6	906.4	799.9	723.2	704.2	723.2	757.0	785.9	802.4	826.4	833.8
30°	970.8	913.0	789.2	704.2	685.2	706.7	744.6	776.8	795.8	818.1	827.2
32.5°	984.9	920.5	780.1	683.5	662.1	684.4	726.5	762.8	783.4	804.1	814.0
35°	1003.9	933.7	775.2	667.0	641.4	661.3	703.4	744.6	766.9	785.9	797.5
37.5°	1027.0	950.2	772.7	650.5	619.2	635.7	678.6	722.3	746.3	762.0	772.7
40°	1053.4	970.8	771.9	634.8	596.9	609.2	653.0	696.8	719.9	732.3	741.3
42.5°	1083.1	993.9	770.2	619.2	574.6	584.5	628.2	671.2	691.0	701.7	710.0
45°	1114.5	1017.1	766.9	600.2	550.6	562.2	602.6	640.6	661.3	670.3	679.4
47.5°	1145.8	1040.2	760.3	578.7	529.2	539.9	575.4	608.4	624.9	633.2	642.3
50°	1176.4	1060.8	744.6	553.9	506.9	516.8	544.0	566.3	578.7	585.3	594.4
52.5°	1203.6	1074.8	722.3	525.0	484.6	489.5	507.7	526.7	536.6	537.4	545.7
55°	1226.7	1082.3	690.1	495.3	460.6	461.5	471.4	486.2	490.4	487.1	492.8
57.5°	1240.0	1078.1	654.6	464.8	435.9	432.6	440.0	447.4	448.3	440.0	445.8
60°	1243.3	1059.2	608.4	434.2	411.1	402.0	404.5	402.9	401.2	397.9	402.9
62.5°	1226.7	1018.7	557.2	404.5	384.7	370.7	369.8	369.0	371.5	372.3	373.1
65°	1166.5	942.8	496.1	374.0	356.6	337.6	336.8	346.7	350.0	345.1	346.7
67.5°	1050.1	826.4	429.3	338.5	321.1	304.6	311.2	317.0	322.8	321.1	322.8
70°	885.0	678.6	368.2	298.8	282.3	273.3	280.7	285.6	286.5	284.8	286.5
72.5°	695.9	530.0	311.2	258.4	243.5	239.4	248.5	252.6	260.0	263.3	264.2
75°	502.8	391.3	255.1	214.6	202.3	202.3	210.5	217.9	224.5	220.4	217.9
77.5°	280.7	233.6	183.3	147.8	150.2	161.8	165.1	173.4	180.0	179.1	177.5
80°	170.1	146.1	123.8	95.8	94.9	104.0	125.5	139.5	142.8	135.4	134.6
82.5°	88.3	76.8	66.0	53.7	59.4	69.3	72.6	87.5	96.6	93.3	97.4
85°	22.3	21.5	23.9	24.8	30.5	33.8	37.1	43.8	28.9	14.0	14.0
87.5°	6.6	6.6	8.3	8.3	10.7	13.2	12.4	12.4	6.6	0.8	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)