

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: P798903

Luminaire Tested: **ARCH1-40-740-U-T3**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-40-740-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1220mA LIGHTSQUARE WITH 10 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5829 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

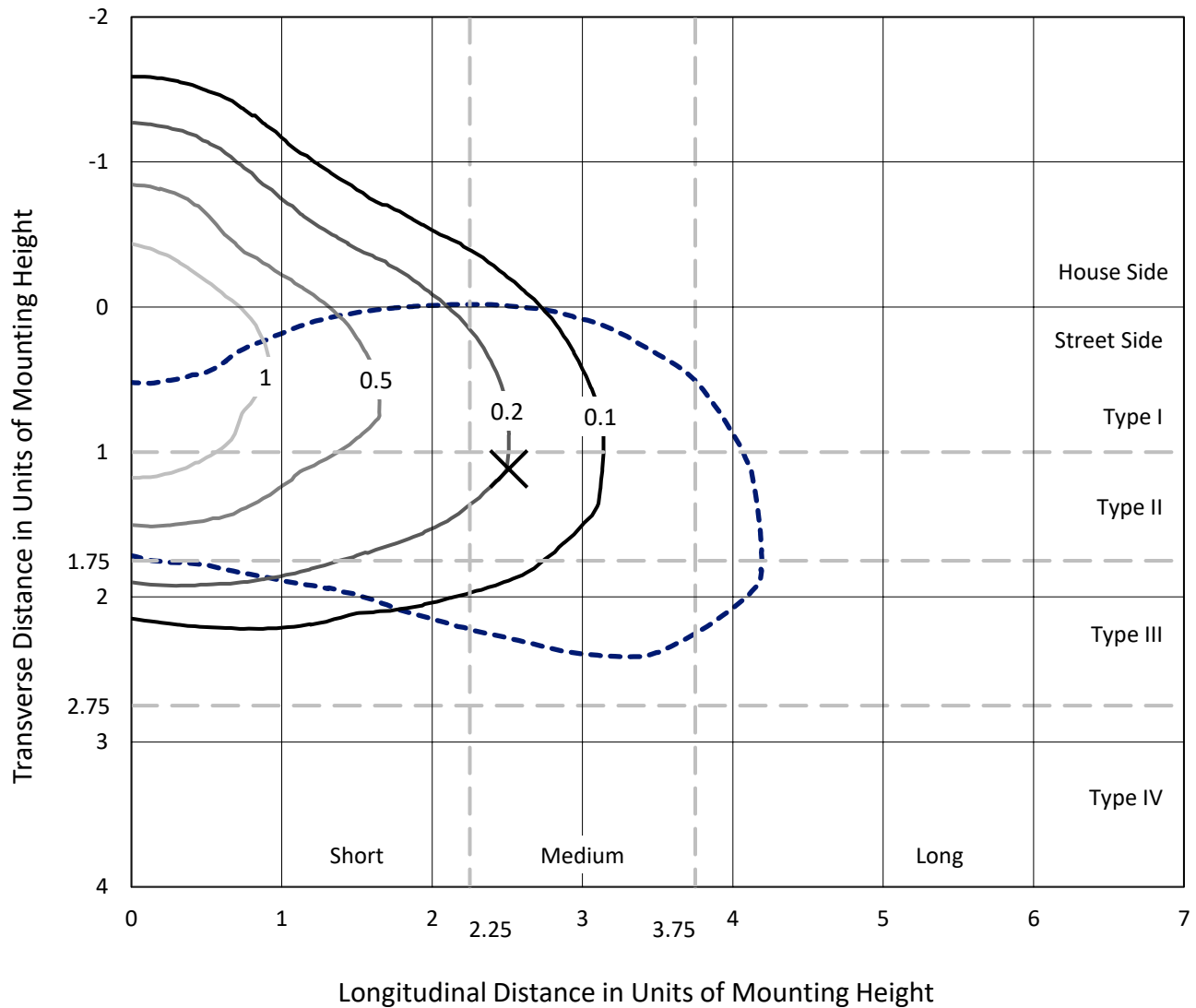
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

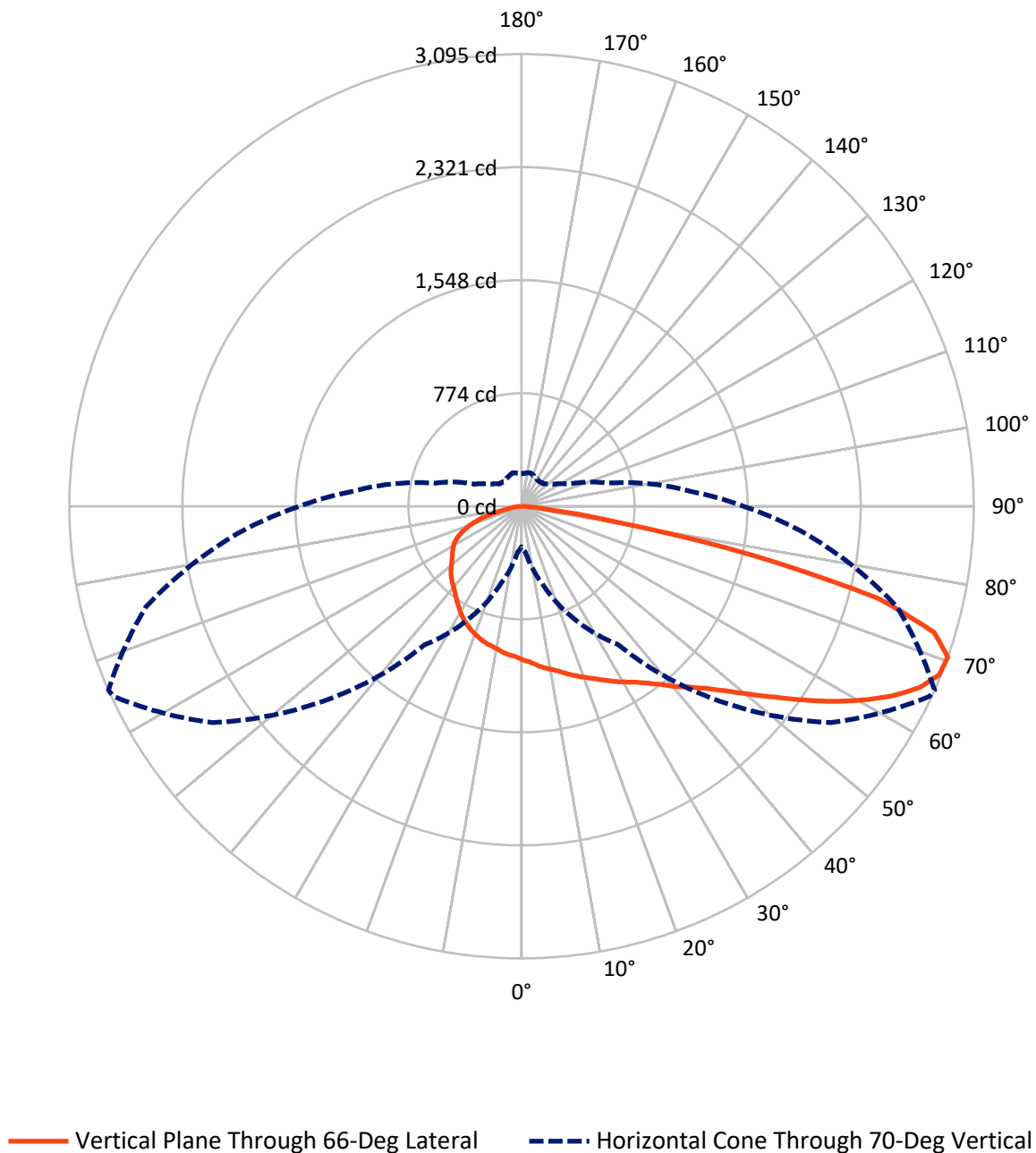
✕ Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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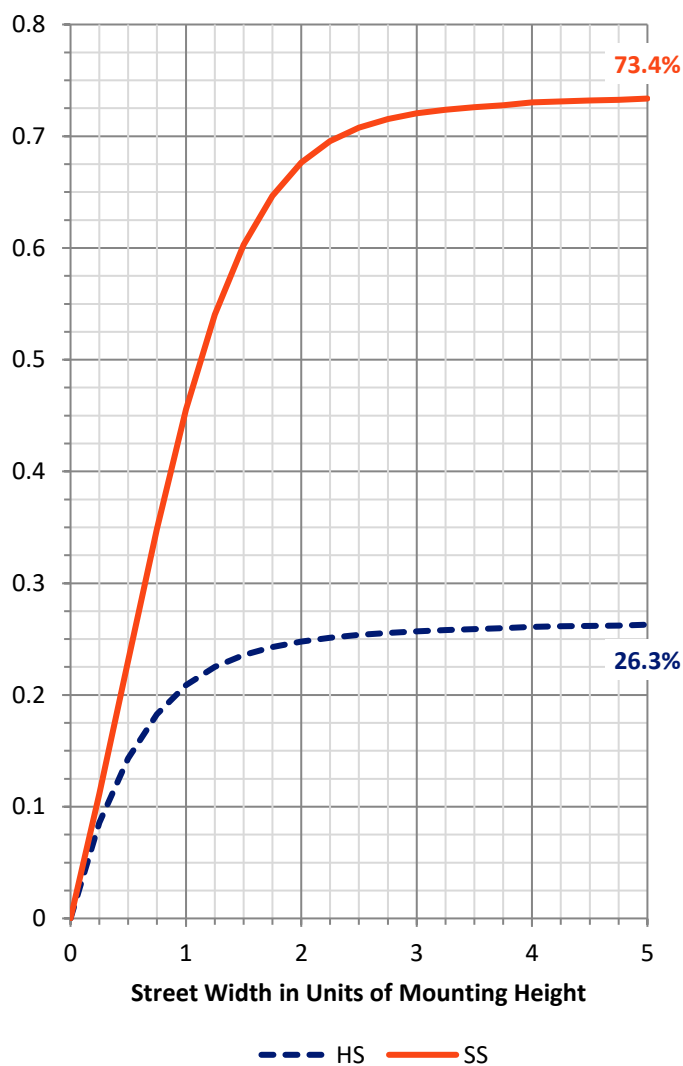
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1544.5	0.0	1544.5
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	4284.4	0.0	4284.4
	% Fixture	73.5	0.0	73.5
Total	Lumens	5829.0	0.0	5829.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	1.7
10°-20°	303.2	5.2
20°-30°	508.3	8.7
30°-40°	761.1	13.1
40°-50°	1017.6	17.5
50°-60°	1188.1	20.4
60°-70°	1181.3	20.3
70°-80°	699.4	12.0
80°-90°	68.9	1.2
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°	5829.0	100.0
0°-180°	5829.0	100.0

Coefficient of Utilization



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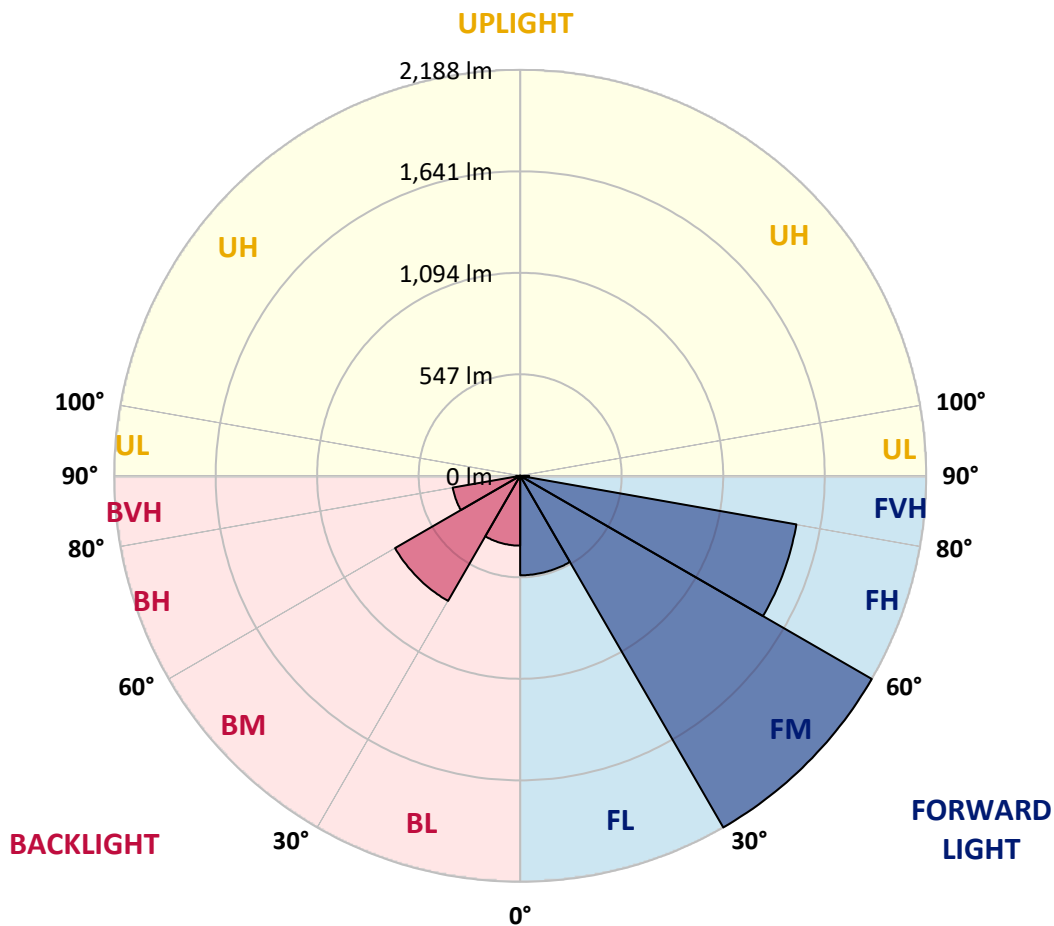
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	536.1	9.2			
FM	(30°-60°)	2188.1	37.5			
FH	(60°-80°)	1511.8	25.9			G1/1800
FVH	(80°-90°)	48.4	0.8			G1/100
BL	(0°-30°)	376.5	6.5	B1/500		
BM	(30°-60°)	778.6	13.4	B1/1000		
BH	(60°-80°)	369.0	6.3	B1/500		G1/500
BVH	(80°-90°)	20.5	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-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1052.0	1052.0	1052.0	1052.0	1052.0	1052.0	1052.0	1052.0	1052.0	1052.0	1052.0
2.5°	1090.7	1089.0	1088.1	1084.7	1076.9	1080.4	1072.6	1067.5	1066.6	1054.6	1047.7
5°	1135.4	1134.5	1132.8	1127.6	1115.6	1117.3	1104.4	1095.0	1092.4	1073.5	1058.9
7.5°	1173.2	1171.5	1170.6	1163.7	1150.8	1150.0	1134.5	1120.8	1116.5	1090.7	1068.3
10°	1202.4	1199.8	1201.6	1194.7	1180.9	1178.3	1158.6	1140.5	1136.2	1103.6	1072.6
12.5°	1227.3	1225.6	1228.2	1222.2	1211.0	1208.4	1188.7	1165.5	1160.3	1122.5	1082.1
15°	1254.8	1248.8	1254.0	1251.4	1243.7	1242.8	1224.8	1199.0	1192.1	1146.5	1096.7
17.5°	1269.4	1266.0	1272.0	1272.9	1269.4	1275.5	1258.3	1227.3	1221.3	1168.9	1109.6
20°	1279.8	1274.6	1281.5	1286.6	1289.2	1301.3	1287.5	1257.4	1250.5	1190.4	1121.6
22.5°	1315.0	1303.8	1304.7	1308.1	1309.8	1327.0	1318.4	1289.2	1282.3	1217.0	1136.2
25°	1403.5	1381.2	1366.6	1356.3	1344.2	1358.8	1353.7	1325.3	1319.3	1248.8	1154.3
27.5°	1541.0	1512.7	1483.5	1453.4	1406.1	1400.1	1391.5	1365.7	1358.8	1280.6	1172.3
30°	1697.5	1669.1	1634.7	1586.6	1498.1	1451.7	1431.9	1403.5	1395.8	1309.0	1189.5
32.5°	1853.0	1828.1	1793.7	1735.3	1608.9	1514.4	1472.3	1443.1	1435.3	1339.9	1210.1
35°	1974.2	1958.8	1936.4	1863.3	1719.0	1588.3	1530.7	1495.5	1486.9	1388.9	1248.0
37.5°	2072.2	2061.0	2042.1	1965.6	1798.9	1662.2	1597.8	1557.4	1547.9	1442.2	1288.4
40°	2216.6	2187.4	2171.9	2061.0	1868.5	1729.3	1673.4	1631.3	1621.0	1498.9	1321.0
42.5°	2339.5	2318.0	2299.1	2146.1	1934.7	1786.9	1744.7	1706.1	1692.3	1554.8	1356.3
45°	2360.1	2368.7	2359.3	2188.2	2039.5	1843.6	1816.9	1792.0	1779.1	1630.4	1409.5
47.5°	2361.0	2361.0	2305.1	2212.3	2169.3	1907.2	1894.3	1902.9	1889.1	1726.7	1473.1
50°	2299.1	2310.3	2281.1	2218.3	2203.7	1970.8	1988.8	2035.2	2021.5	1829.0	1541.9
52.5°	2171.0	2208.0	2207.1	2208.9	2153.9	2024.9	2088.5	2194.2	2171.0	1944.1	1615.0
55°	1945.0	2018.9	2085.1	2141.8	2110.9	2057.6	2210.6	2363.6	2339.5	2073.1	1688.9
57.5°	1751.6	1798.9	1881.4	2042.1	2060.2	2086.0	2324.9	2540.6	2519.1	2215.7	1766.2
60°	1530.7	1596.1	1678.6	1907.2	1998.3	2122.9	2450.4	2713.4	2692.7	2360.1	1841.0
62.5°	1191.2	1275.5	1440.5	1700.0	1908.0	2146.1	2549.2	2865.5	2856.0	2496.8	1908.0
65°	830.3	905.0	1136.2	1445.6	1764.5	2135.8	2628.3	3001.3	2992.7	2608.5	1955.3
67.5°	484.7	571.6	832.8	1163.7	1511.0	2064.5	2654.1	3081.2	3081.2	2676.4	1968.2
70°	276.8	317.1	549.2	848.3	1158.6	1867.6	2581.9	3080.4	3095.0	2660.9	1914.9
72.5°	193.4	211.4	369.6	570.7	785.6	1511.0	2392.8	2931.7	2951.4	2514.8	1732.7
75°	150.4	163.3	260.4	389.3	495.1	1026.2	1979.4	2471.9	2524.3	2143.5	1401.0
77.5°	114.3	123.8	152.1	243.2	317.1	589.6	1306.4	1621.0	1624.4	1312.4	751.2
80°	83.4	92.8	101.4	148.7	168.5	275.9	493.3	677.3	658.4	635.2	406.5
82.5°	49.8	59.3	61.9	80.8	82.5	117.7	172.8	218.3	209.7	279.3	190.8
85°	21.5	30.1	31.8	37.0	35.2	48.1	68.8	57.6	51.6	59.3	41.3
87.5°	5.2	8.6	8.6	9.5	7.7	12.0	12.9	9.5	8.6	10.3	10.3
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°	1052.0	1052.0	1052.0	1052.0	1052.0	1052.0	1052.0	1052.0	1052.0	1052.0	1052.0
2.5°	1046.0	1043.4	1044.3	1029.7	1025.4	1021.1	1018.5	1016.8	1015.0	1017.6	1020.2
5°	1053.7	1047.7	1040.8	1019.3	1010.7	1001.3	994.4	988.4	985.8	985.8	988.4
7.5°	1059.7	1049.4	1034.8	1006.4	991.0	978.1	966.9	959.2	954.9	954.9	957.5
10°	1060.6	1046.0	1022.8	988.4	967.8	948.9	936.0	927.4	921.4	921.4	923.1
12.5°	1065.8	1046.0	1015.9	974.6	948.9	925.7	910.2	897.3	894.7	894.7	896.4
15°	1074.3	1050.3	1011.6	962.6	931.7	905.0	887.8	874.1	868.9	872.4	873.2
17.5°	1082.1	1052.9	1003.9	947.1	910.2	881.0	862.1	850.0	843.1	850.9	850.9
20°	1087.2	1052.9	992.7	927.4	887.0	854.3	836.3	821.7	816.5	826.0	826.8
22.5°	1095.0	1052.0	980.7	907.6	862.1	827.7	809.6	798.5	795.9	806.2	809.6
25°	1103.6	1053.7	967.8	885.3	834.6	801.0	787.3	782.1	783.8	796.7	801.0
27.5°	1113.0	1057.2	954.9	860.3	804.5	774.4	766.7	769.2	776.1	792.4	797.6
30°	1121.6	1058.0	936.8	831.1	770.1	741.7	745.2	756.3	766.7	783.0	789.0
32.5°	1132.8	1058.9	917.9	799.3	733.1	712.5	728.0	746.0	756.3	771.8	778.7
35°	1160.3	1073.5	903.3	768.4	698.8	687.6	713.4	736.6	742.6	756.3	762.4
37.5°	1192.1	1097.6	895.6	736.6	665.2	662.7	695.3	718.5	720.2	728.8	734.9
40°	1211.9	1107.9	887.0	709.9	635.2	636.9	670.4	688.4	685.0	691.0	695.3
42.5°	1231.6	1111.3	868.9	687.6	606.8	608.5	634.3	647.2	648.9	661.8	667.8
45°	1265.2	1120.8	849.2	667.0	581.0	575.0	590.5	607.7	630.0	654.9	661.8
47.5°	1309.8	1140.5	828.5	642.0	556.1	536.3	542.3	572.4	595.6	618.8	623.1
50°	1355.4	1160.3	809.6	611.9	531.2	495.1	497.6	525.1	544.0	562.1	564.7
52.5°	1400.1	1177.5	793.3	583.6	502.8	446.1	456.4	484.7	497.6	506.2	508.8
55°	1444.8	1192.1	778.7	559.5	470.1	407.4	416.8	443.5	456.4	460.7	462.4
57.5°	1491.2	1209.3	767.5	538.9	433.2	373.0	379.0	397.9	410.0	415.1	413.4
60°	1529.9	1223.9	761.5	517.4	396.2	341.2	339.5	356.7	373.9	379.0	377.3
62.5°	1560.0	1233.4	752.0	489.9	363.6	309.4	300.8	323.2	341.2	344.7	347.2
65°	1576.3	1234.2	728.8	454.7	330.0	275.0	269.0	291.4	302.5	306.0	306.0
67.5°	1573.7	1220.5	683.3	407.4	299.1	244.1	238.9	252.7	269.0	271.6	269.0
70°	1520.4	1163.7	610.2	357.5	262.1	216.6	207.1	220.9	236.4	226.9	222.6
72.5°	1369.1	1016.8	502.8	302.5	220.9	182.2	177.9	191.7	192.5	194.2	189.9
75°	1080.4	757.2	376.5	235.5	178.8	153.0	152.1	149.5	153.0	159.9	154.7
77.5°	567.3	378.2	203.7	144.4	129.8	122.9	116.9	116.0	126.3	130.6	125.5
80°	307.7	212.3	116.9	86.8	79.1	79.9	87.7	85.9	97.1	99.7	95.4
82.5°	134.1	100.6	57.6	52.4	52.4	51.6	54.1	60.2	72.2	72.2	57.6
85°	29.2	24.9	22.3	25.8	29.2	29.2	29.2	29.2	20.6	11.2	7.7
87.5°	9.5	9.5	9.5	10.3	11.2	11.2	9.5	6.9	4.3	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)