

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: P799859

Luminaire Tested: **ARCH2-60-722-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-60-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 485mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7820 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

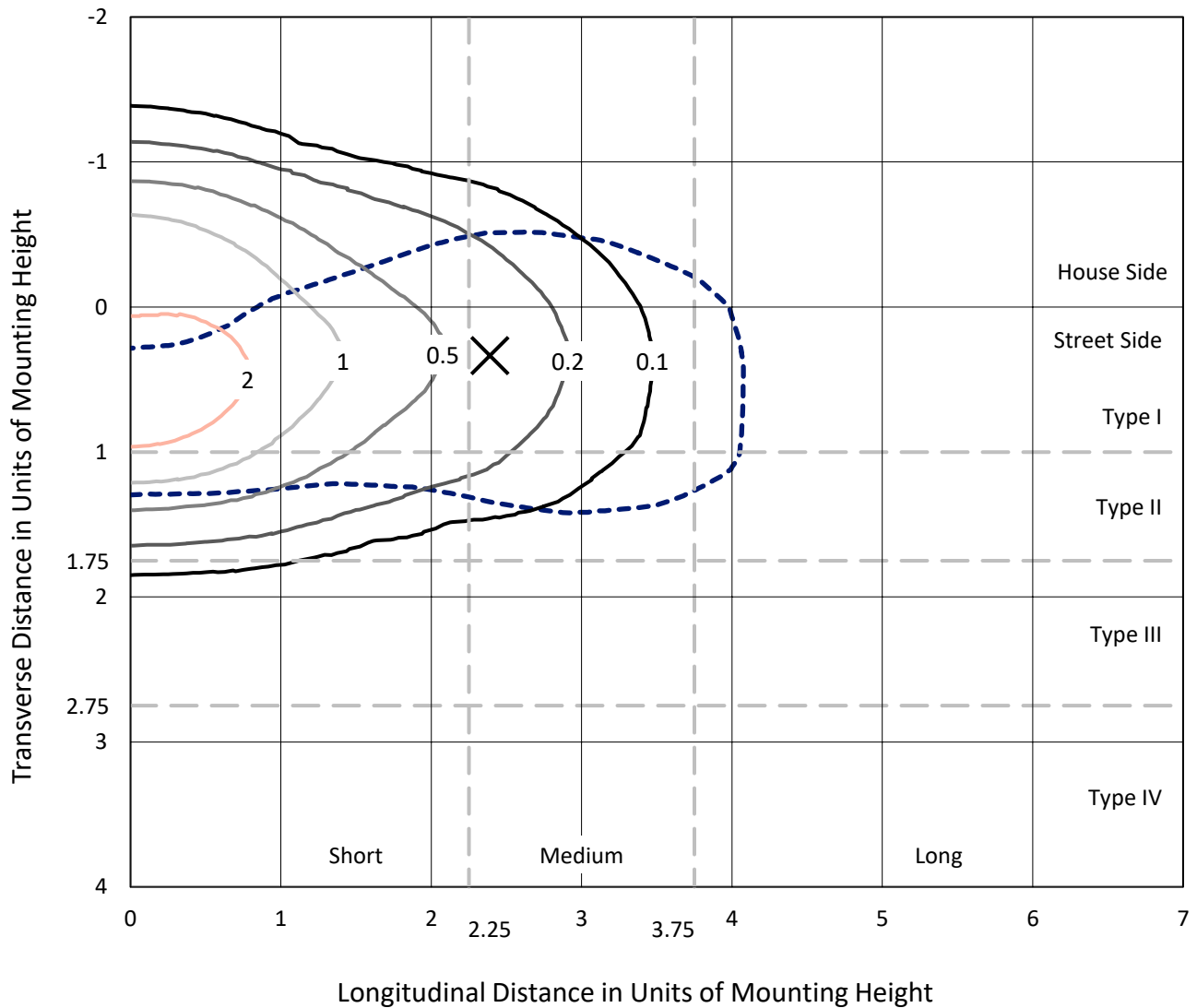
Input Watts (W): 63.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

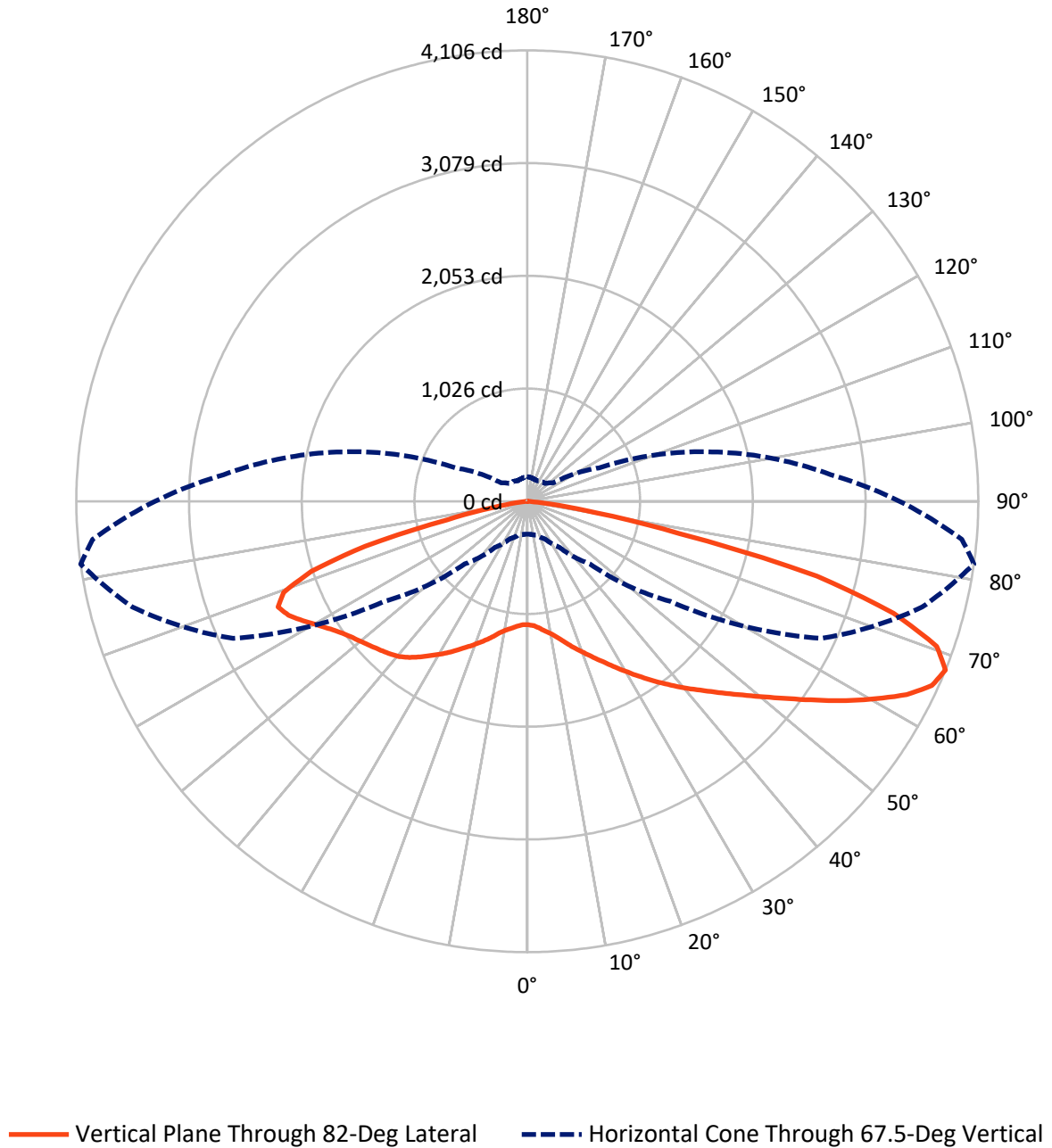
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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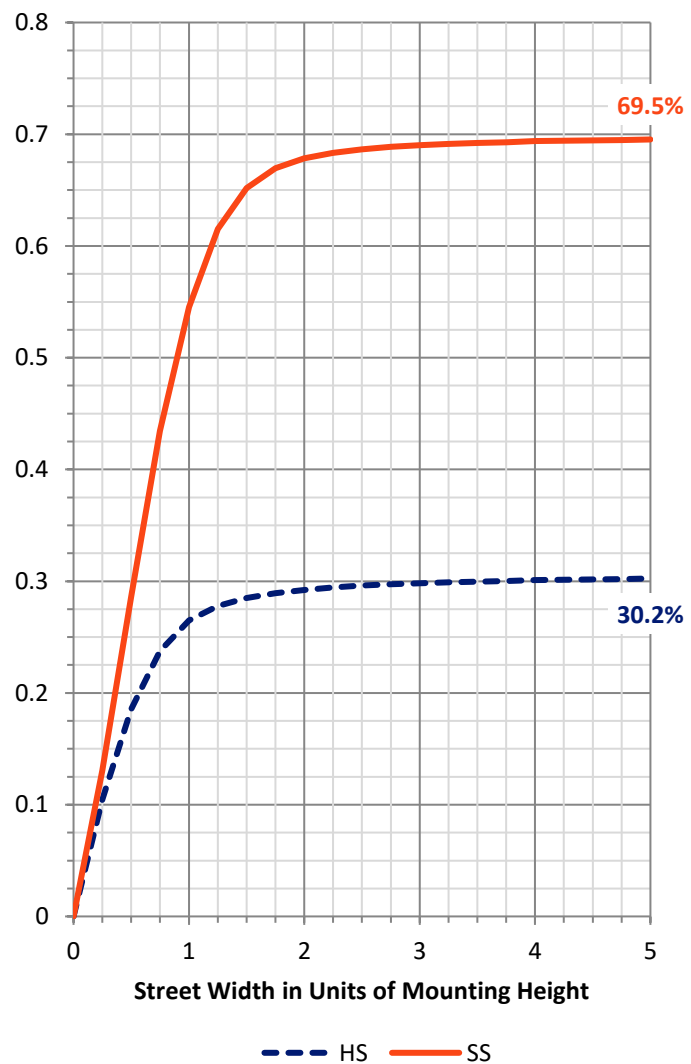
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2381.5	0.0	2381.5
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	5438.5	0.0	5438.5
	% Fixture	69.5	0.0	69.5
Total	Lumens	7820.0	0.0	7820.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.2	1.5
10°-20°	418.5	5.4
20°-30°	841.0	10.8
30°-40°	1321.1	16.9
40°-50°	1609.4	20.6
50°-60°	1520.6	19.4
60°-70°	1255.7	16.1
70°-80°	683.8	8.7
80°-90°	53.8	0.7
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°	7820.0	100.0
0°-180°	7820.0	100.0

Coefficient of Utilization



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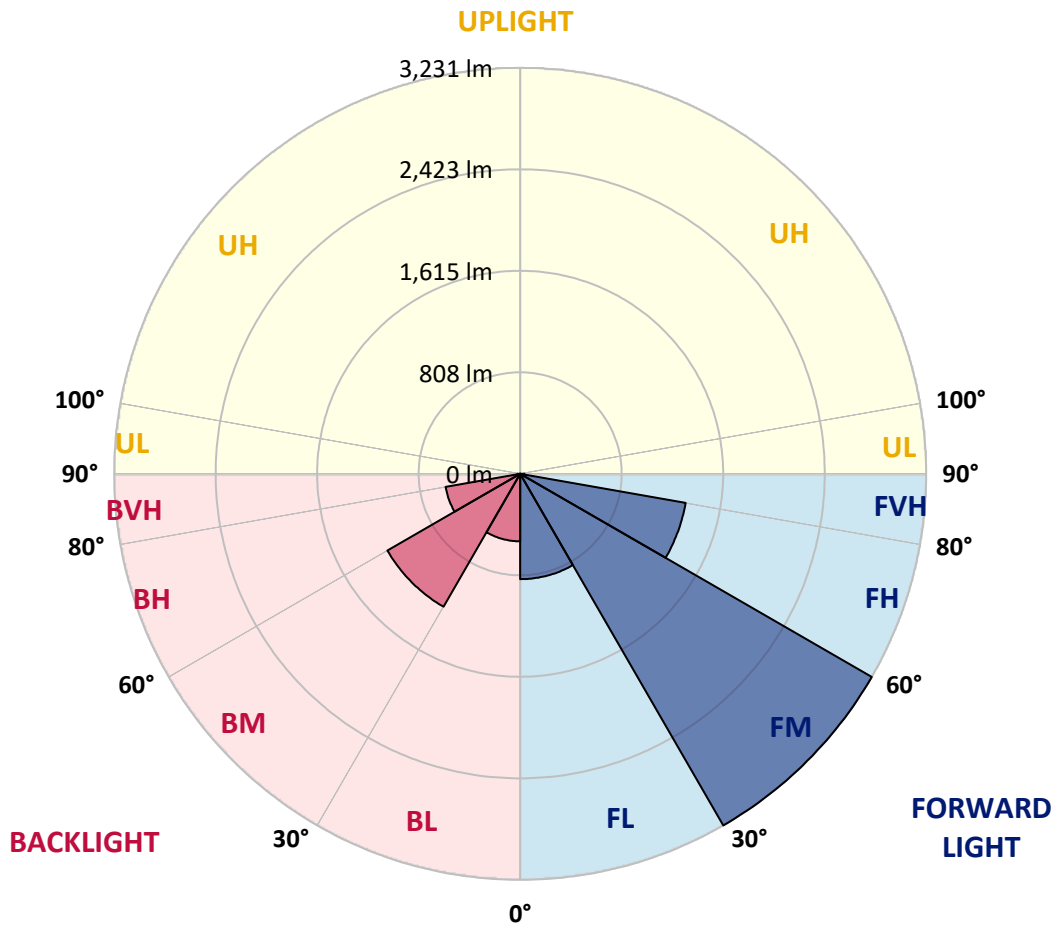
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	838.6	10.7			
FM (30°-60°)	3230.8	41.3			
FH (60°-80°)	1336.7	17.1			G1/1800
FVH (80°-90°)	32.4	0.4			G1/100
BL (0°-30°)	537.0	6.9	B2/1000		
BM (30°-60°)	1220.3	15.6	B2/2500		
BH (60°-80°)	602.8	7.7	B2/1000		G2/1000
BVH (80°-90°)	21.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1124.1	1124.1	1124.1	1124.1	1124.1	1124.1	1124.1	1124.1	1124.1	1124.1	1124.1
2.5°	1175.2	1175.2	1184.3	1184.3	1176.4	1163.9	1160.5	1146.8	1134.3	1134.3	1135.5
5°	1287.6	1286.5	1293.3	1284.2	1264.9	1239.9	1222.9	1193.4	1168.4	1160.5	1159.3
7.5°	1425.0	1423.9	1427.3	1412.5	1376.2	1335.3	1301.3	1253.6	1212.7	1195.7	1191.1
10°	1578.3	1577.2	1573.8	1548.8	1500.0	1436.4	1385.3	1319.4	1258.1	1230.9	1225.2
12.5°	1754.3	1752.0	1744.1	1707.8	1640.8	1559.0	1485.2	1400.0	1318.3	1280.8	1268.3
15°	1950.7	1947.3	1932.6	1888.3	1798.6	1695.3	1599.9	1490.9	1391.0	1342.1	1325.1
17.5°	2157.4	2157.4	2134.7	2068.8	1968.9	1840.6	1722.5	1584.0	1467.0	1406.9	1386.4
20°	2367.5	2366.3	2337.9	2258.5	2140.4	1992.8	1842.9	1690.7	1545.4	1472.7	1447.7
22.5°	2588.9	2586.6	2551.4	2460.6	2319.8	2152.9	1978.0	1796.3	1631.7	1544.2	1512.5
25°	2843.2	2839.8	2796.7	2685.4	2518.5	2330.0	2130.2	1920.1	1730.5	1623.7	1586.3
27.5°	3113.5	3108.9	3057.8	2928.4	2745.6	2518.5	2298.2	2063.2	1839.5	1712.3	1670.3
30°	3354.2	3350.8	3295.2	3162.3	2952.2	2705.8	2458.3	2206.2	1954.2	1806.5	1754.3
32.5°	3535.9	3535.9	3485.9	3355.3	3137.3	2885.2	2619.5	2341.4	2073.4	1907.6	1846.3
35°	3646.0	3649.4	3606.3	3501.8	3296.3	3054.4	2786.5	2500.3	2200.6	2015.5	1949.6
37.5°	3661.9	3673.3	3648.3	3577.9	3406.4	3195.2	2950.0	2653.6	2332.3	2124.5	2050.7
40°	3588.1	3596.1	3597.2	3569.9	3451.8	3296.3	3094.2	2816.0	2471.9	2239.2	2154.0
42.5°	3440.5	3446.2	3456.4	3464.3	3418.9	3340.6	3204.3	2967.0	2620.7	2356.1	2256.2
45°	3249.7	3248.6	3265.6	3299.7	3297.4	3315.6	3265.6	3104.4	2775.1	2489.0	2369.7
47.5°	2964.7	2959.0	3019.2	3096.4	3135.0	3220.2	3266.8	3212.3	2943.2	2635.4	2499.2
50°	2518.5	2512.8	2644.5	2826.2	2939.7	3069.2	3204.3	3277.0	3119.2	2800.1	2640.0
52.5°	1975.7	1970.1	2137.0	2454.9	2702.4	2890.9	3078.3	3291.7	3286.1	2984.0	2798.9
55°	1469.3	1464.8	1627.1	1971.2	2372.0	2684.3	2923.8	3253.1	3442.8	3195.2	2992.0
57.5°	1035.6	1033.3	1174.1	1459.1	1947.3	2432.2	2775.1	3178.2	3587.0	3424.6	3210.0
60°	726.7	723.3	825.5	1045.8	1472.7	2051.8	2627.5	3078.3	3694.8	3650.6	3441.6
62.5°	489.4	487.1	559.8	743.7	1045.8	1579.4	2403.8	3011.3	3756.2	3877.6	3675.5
65°	371.3	370.2	403.1	504.2	740.3	1134.3	2048.4	3003.3	3764.1	4048.0	3874.2
67.5°	299.8	300.9	319.1	377.0	512.1	806.2	1588.5	2953.4	3722.1	4105.9	3970.8
70°	245.3	245.3	253.2	291.8	378.1	543.9	1109.4	2726.3	3605.1	3954.9	3856.1
72.5°	187.4	188.5	213.5	236.2	285.0	381.5	710.8	2256.2	3329.2	3487.0	3412.1
75°	148.7	147.6	162.4	194.2	221.4	272.5	436.0	1618.1	2833.0	2725.1	2677.5
77.5°	106.7	105.6	117.0	144.2	168.1	193.0	260.0	816.4	1540.8	1415.9	1380.7
80°	72.7	70.4	80.6	99.9	111.3	113.5	127.2	313.4	672.2	633.6	625.6
82.5°	37.5	37.5	43.1	56.8	57.9	59.0	56.8	101.1	222.6	207.8	198.7
85°	14.8	14.8	15.9	19.3	19.3	20.4	20.4	26.1	23.8	22.7	21.6
87.5°	1.1	1.1	2.3	2.3	3.4	3.4	3.4	4.5	5.7	5.7	5.7
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°	1124.1	1124.1	1124.1	1124.1	1124.1	1124.1	1124.1	1124.1	1124.1	1124.1	1124.1
2.5°	1133.2	1128.7	1113.9	1110.5	1108.2	1104.8	1106.0	1098.0	1094.6	1095.7	1091.2
5°	1153.6	1145.7	1127.5	1119.6	1117.3	1113.9	1117.3	1111.6	1106.0	1108.2	1106.0
7.5°	1182.0	1170.7	1148.0	1140.0	1138.9	1135.5	1140.0	1135.5	1130.9	1133.2	1128.7
10°	1211.6	1196.8	1171.8	1163.9	1163.9	1162.7	1167.3	1160.5	1155.9	1157.0	1154.8
12.5°	1254.7	1235.4	1208.1	1201.3	1197.9	1201.3	1202.5	1193.4	1185.4	1186.6	1183.2
15°	1306.9	1285.4	1255.8	1245.6	1243.3	1242.2	1237.7	1226.3	1216.1	1215.0	1211.6
17.5°	1363.7	1336.5	1301.3	1291.0	1280.8	1277.4	1266.1	1251.3	1235.4	1235.4	1230.9
20°	1418.2	1387.6	1345.5	1330.8	1316.0	1302.4	1283.1	1259.2	1238.8	1235.4	1230.9
22.5°	1477.3	1440.9	1392.1	1370.5	1344.4	1317.2	1284.2	1252.4	1226.3	1220.6	1217.2
25°	1543.1	1497.7	1439.8	1408.0	1366.0	1324.0	1275.1	1234.3	1203.6	1194.5	1192.2
27.5°	1615.8	1561.3	1490.9	1444.3	1383.0	1317.2	1254.7	1205.9	1168.4	1157.0	1153.6
30°	1689.6	1624.9	1537.4	1469.3	1383.0	1295.6	1217.2	1160.5	1117.3	1101.4	1099.1
32.5°	1763.4	1690.7	1579.4	1482.9	1369.4	1259.2	1168.4	1101.4	1052.6	1033.3	1037.8
35°	1852.0	1763.4	1618.1	1488.6	1346.7	1215.0	1112.8	1034.4	984.5	967.4	970.8
37.5°	1943.9	1836.1	1648.7	1484.1	1314.9	1165.0	1050.3	974.2	911.8	882.3	885.7
40°	2023.4	1901.9	1670.3	1468.2	1274.0	1108.2	989.0	889.1	802.8	774.4	771.0
42.5°	2098.4	1950.7	1681.6	1444.3	1227.4	1042.4	901.6	773.3	687.0	651.8	652.9
45°	2176.7	1998.4	1677.1	1412.5	1169.5	965.2	789.2	659.7	583.6	551.8	553.0
47.5°	2266.4	2049.5	1672.6	1378.5	1099.1	865.2	681.3	559.8	493.9	471.2	469.0
50°	2361.8	2106.3	1666.9	1336.5	1020.8	754.0	574.6	466.7	411.0	396.3	392.9
52.5°	2469.7	2167.6	1663.5	1286.5	926.5	635.9	479.2	384.9	347.5	337.2	336.1
55°	2599.1	2239.2	1668.0	1226.3	813.0	524.6	398.6	331.6	306.6	300.9	299.8
57.5°	2756.9	2331.1	1681.6	1155.9	693.8	428.1	339.5	298.6	282.7	278.2	278.2
60°	2928.4	2435.6	1706.6	1076.4	574.6	353.1	300.9	272.5	265.7	271.4	271.4
62.5°	3113.5	2558.2	1750.9	979.9	463.3	298.6	270.2	250.9	246.4	257.8	258.9
65°	3284.9	2677.5	1779.3	864.1	367.9	258.9	246.4	229.4	231.6	243.0	241.9
67.5°	3390.5	2776.2	1739.5	718.8	291.8	229.4	221.4	206.7	212.3	221.4	222.6
70°	3325.8	2720.6	1543.1	542.8	228.2	199.8	194.2	185.1	189.6	201.0	205.5
72.5°	3009.0	2436.7	1200.2	366.8	183.9	168.1	170.3	165.8	171.5	181.7	191.9
75°	2442.4	1841.7	805.1	235.0	145.3	143.1	146.5	143.1	145.3	155.6	161.2
77.5°	1275.1	898.2	400.8	146.5	107.9	111.3	117.0	118.1	124.9	127.2	129.4
80°	595.0	404.2	166.9	81.8	71.5	78.3	89.7	90.8	93.1	96.5	97.7
82.5°	194.2	121.5	77.2	44.3	40.9	44.3	57.9	69.3	70.4	77.2	77.2
85°	20.4	12.5	17.0	18.2	15.9	19.3	26.1	25.0	11.4	6.8	6.8
87.5°	5.7	4.5	5.7	5.7	4.5	4.5	3.4	1.1	0.0	0.0	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)