

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: P799171

Luminaire Tested: **ARCH1-60-750-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799171
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: ARCH1-60-750-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7465 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 60
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



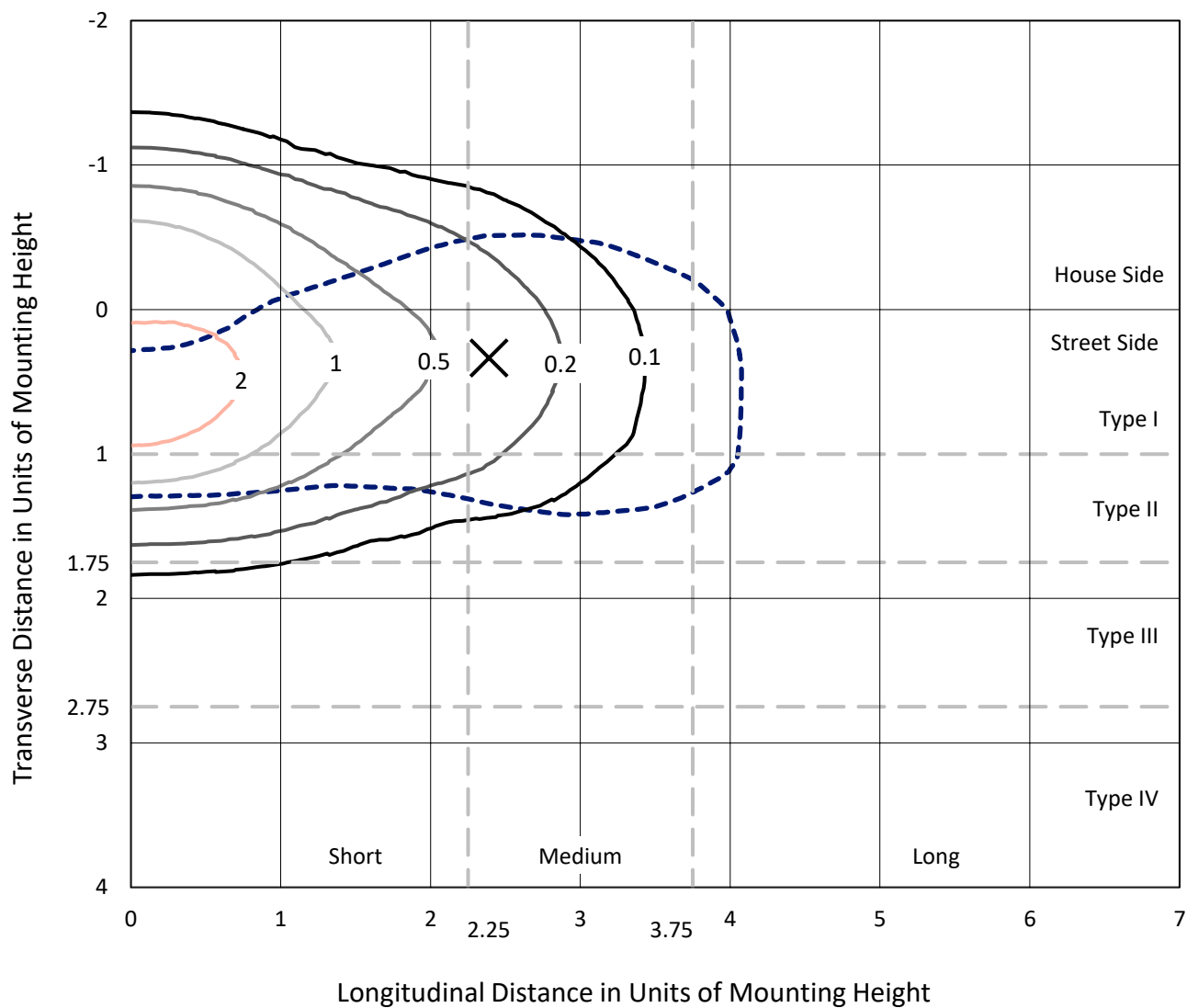
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

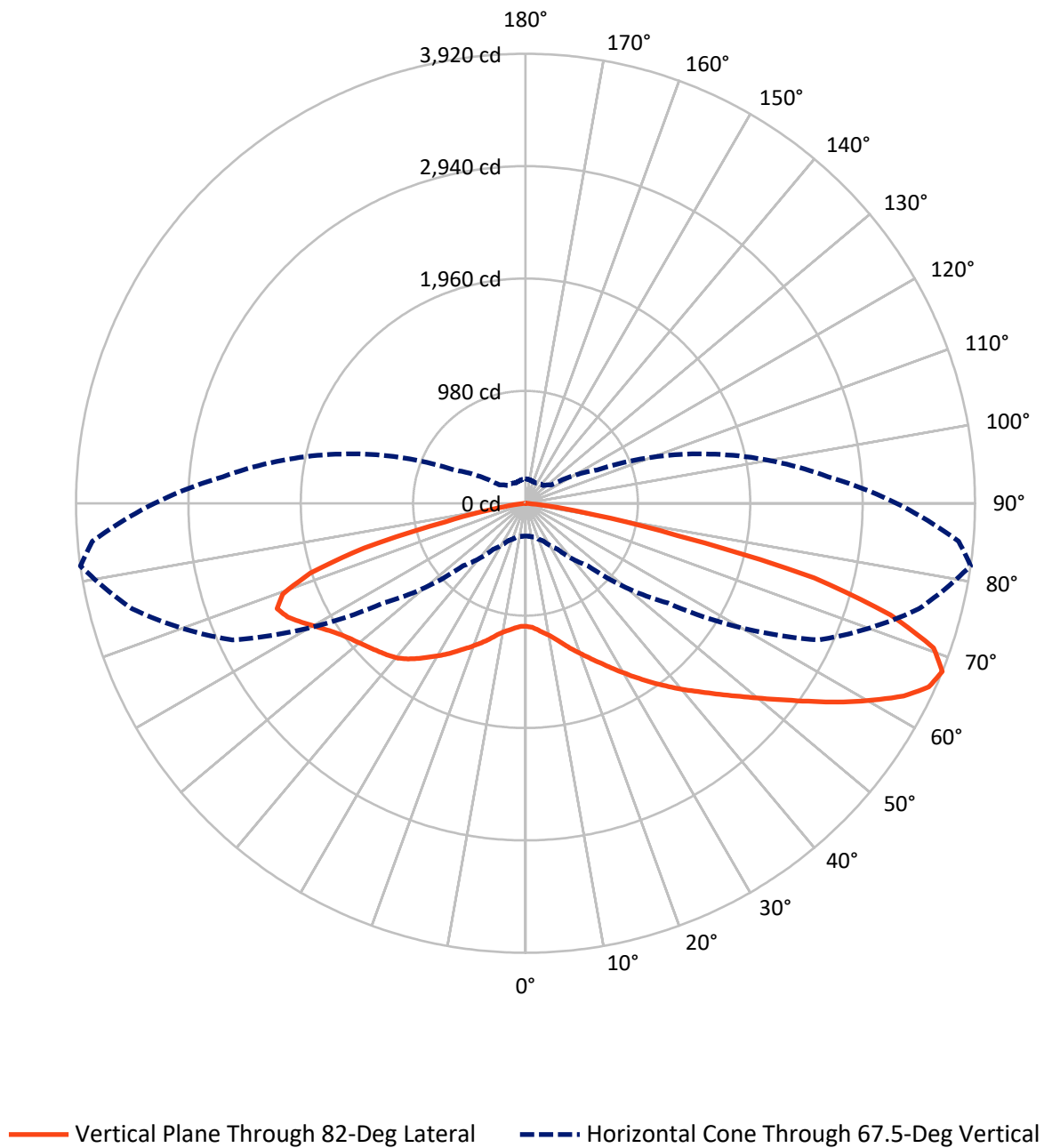


Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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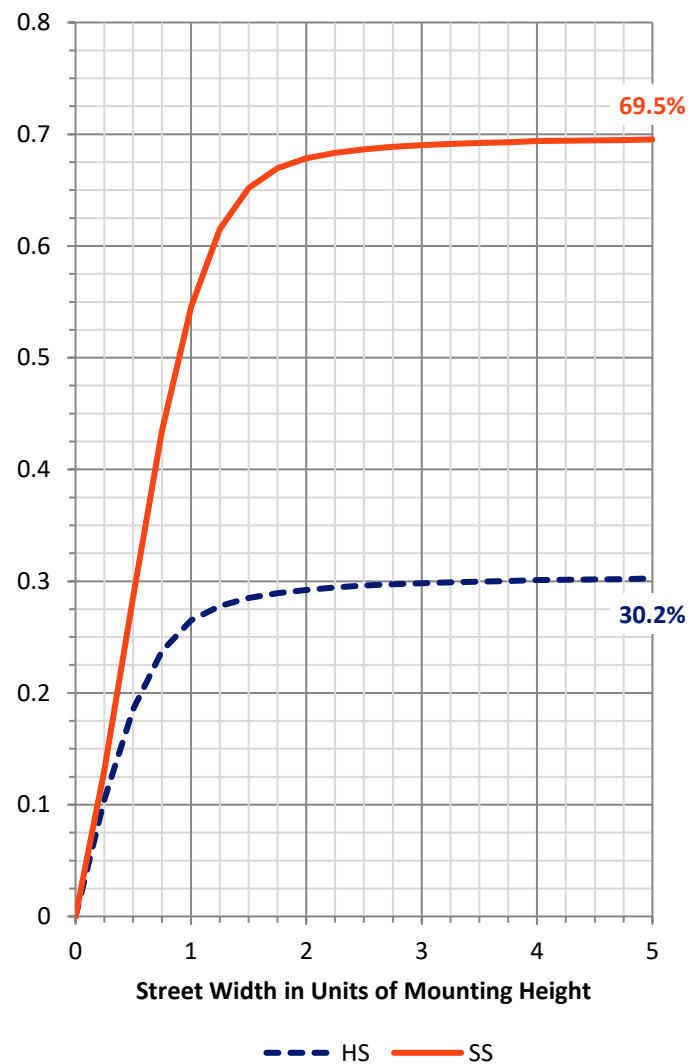
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2273.4	0.0	2273.4
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	5191.6	0.0	5191.6
	% Fixture	69.5	0.0	69.5
Total	Lumens	7465.0	0.0	7465.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.9	1.5
10°-20°	399.5	5.4
20°-30°	802.8	10.8
30°-40°	1261.1	16.9
40°-50°	1536.3	20.6
50°-60°	1451.6	19.4
60°-70°	1198.7	16.1
70°-80°	652.7	8.7
80°-90°	51.3	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°	7465.0	100.0
0°-180°	7465.0	100.0

Coefficient of Utilization



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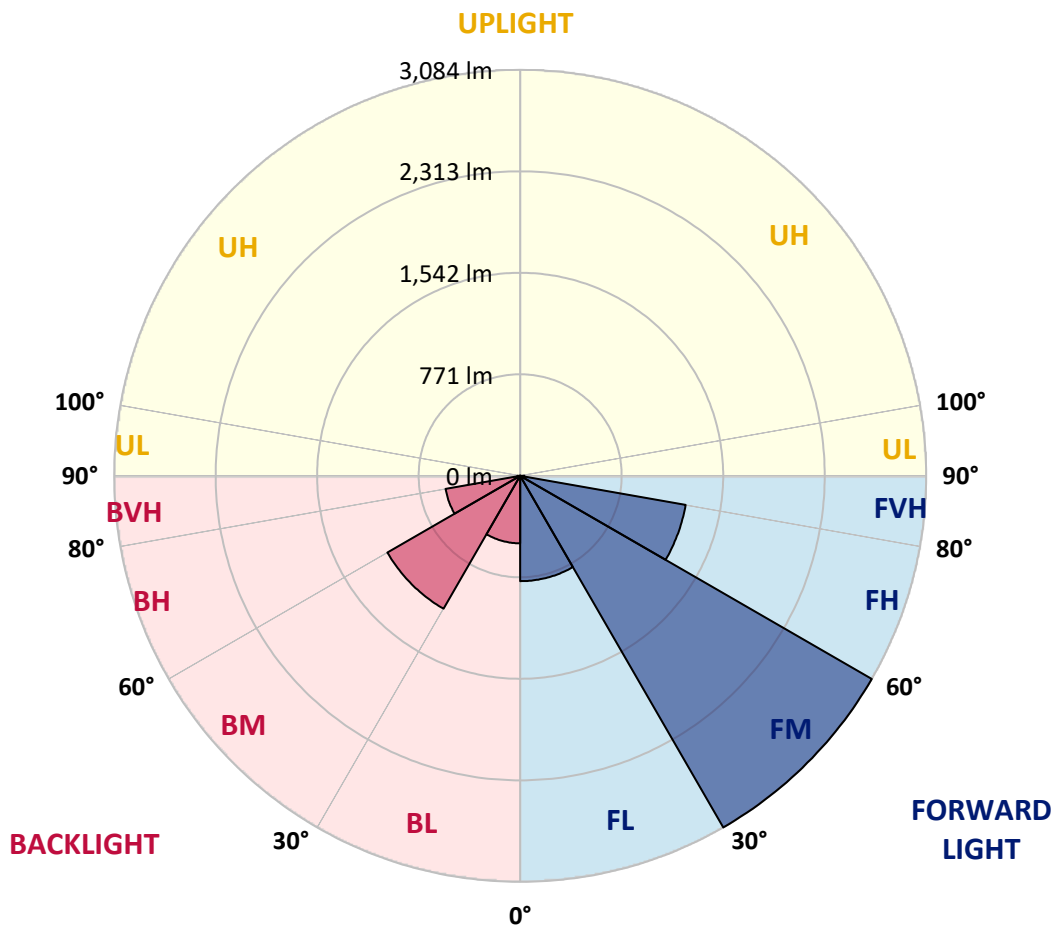
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	800.5	10.7			
FM	(30°-60°)	3084.1	41.3			
FH	(60°-80°)	1276.0	17.1			G1/1800
FVH	(80°-90°)	30.9	0.4			G1/100
BL	(0°-30°)	512.7	6.9	B2/1000		
BM	(30°-60°)	1164.9	15.6	B2/2500		
BH	(60°-80°)	575.4	7.7	B2/1000		G2/1000
BVH	(80°-90°)	20.4	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°	1073.1	1073.1	1073.1	1073.1	1073.1	1073.1	1073.1	1073.1	1073.1	1073.1	1073.1
2.5°	1121.9	1121.9	1130.5	1130.5	1123.0	1111.0	1107.8	1094.8	1082.8	1082.8	1083.9
5°	1229.2	1228.1	1234.6	1225.9	1207.5	1183.7	1167.4	1139.2	1115.4	1107.8	1106.7
7.5°	1360.3	1359.2	1362.5	1348.4	1313.7	1274.7	1242.2	1196.7	1157.6	1141.4	1137.0
10°	1506.7	1505.6	1502.3	1478.5	1431.9	1371.2	1322.4	1259.5	1201.0	1175.0	1169.6
12.5°	1674.7	1672.5	1664.9	1630.2	1566.3	1488.2	1417.8	1336.5	1258.4	1222.7	1210.7
15°	1862.2	1858.9	1844.8	1802.6	1716.9	1618.3	1527.3	1423.2	1327.8	1281.2	1264.9
17.5°	2059.5	2059.5	2037.8	1974.9	1879.5	1757.0	1644.3	1512.1	1400.4	1343.0	1323.5
20°	2260.0	2258.9	2231.8	2155.9	2043.2	1902.3	1759.2	1614.0	1475.2	1405.9	1382.0
22.5°	2471.4	2469.2	2435.6	2348.9	2214.5	2055.1	1888.2	1714.8	1557.6	1474.1	1443.8
25°	2714.2	2710.9	2669.7	2563.5	2404.2	2224.2	2033.5	1832.9	1651.9	1550.0	1514.2
27.5°	2972.1	2967.8	2919.0	2795.5	2620.9	2404.2	2193.9	1969.5	1756.0	1634.6	1594.5
30°	3201.9	3198.7	3145.6	3018.7	2818.2	2583.0	2346.7	2106.1	1865.4	1724.5	1674.7
32.5°	3375.4	3375.4	3327.7	3203.0	2994.9	2754.3	2500.6	2235.1	1979.3	1821.0	1762.5
35°	3480.5	3483.7	3442.6	3342.8	3146.6	2915.8	2660.0	2386.8	2100.7	1924.0	1861.1
37.5°	3495.7	3506.5	3482.7	3415.5	3251.8	3050.2	2816.0	2533.1	2226.4	2028.0	1957.6
40°	3425.2	3432.8	3433.9	3407.9	3295.1	3146.6	2953.7	2688.1	2359.7	2137.5	2056.2
42.5°	3284.3	3289.7	3299.5	3307.1	3263.7	3188.9	3058.8	2832.3	2501.7	2249.2	2153.8
45°	3102.2	3101.1	3117.4	3149.9	3147.7	3165.1	3117.4	2963.5	2649.1	2376.0	2262.2
47.5°	2830.1	2824.7	2882.2	2955.9	2992.7	3074.0	3118.5	3066.4	2809.5	2515.8	2385.7
50°	2404.2	2398.7	2524.5	2697.9	2806.3	2929.9	3058.8	3128.2	2977.6	2673.0	2520.1
52.5°	1886.0	1880.6	2040.0	2343.5	2579.8	2759.7	2938.5	3142.3	3136.9	2848.6	2671.9
55°	1402.6	1398.3	1553.3	1881.7	2264.3	2562.4	2791.1	3105.5	3286.5	3050.2	2856.2
57.5°	988.5	986.4	1120.8	1392.8	1858.9	2321.8	2649.1	3033.9	3424.1	3269.1	3064.3
60°	693.7	690.5	788.0	998.3	1405.9	1958.7	2508.2	2938.5	3527.1	3484.8	3285.4
62.5°	467.2	465.0	534.4	710.0	998.3	1507.7	2294.7	2874.6	3585.6	3701.6	3508.7
65°	354.4	353.4	384.8	481.3	706.7	1082.8	1955.4	2867.0	3593.2	3864.2	3698.4
67.5°	286.2	287.2	304.6	359.9	488.9	769.6	1516.4	2819.3	3553.1	3919.5	3790.5
70°	234.1	234.1	241.7	278.6	360.9	519.2	1059.0	2602.5	3441.5	3775.3	3681.0
72.5°	178.8	179.9	203.8	225.5	272.1	364.2	678.5	2153.8	3178.1	3328.7	3257.2
75°	142.0	140.9	155.0	185.4	211.4	260.1	416.2	1544.6	2704.4	2601.4	2555.9
77.5°	101.9	100.8	111.6	137.7	160.4	184.3	248.2	779.3	1470.9	1351.7	1318.1
80°	69.4	67.2	77.0	95.4	106.2	108.4	121.4	299.2	641.7	604.8	597.2
82.5°	35.8	35.8	41.2	54.2	55.3	56.4	54.2	96.5	212.5	198.4	189.7
85°	14.1	14.1	15.2	18.4	18.4	19.5	19.5	24.9	22.8	21.7	20.6
87.5°	1.1	1.1	2.2	2.2	3.3	3.3	3.3	4.3	5.4	5.4	5.4
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°	1073.1	1073.1	1073.1	1073.1	1073.1	1073.1	1073.1	1073.1	1073.1	1073.1	1073.1
2.5°	1081.8	1077.4	1063.3	1060.1	1057.9	1054.7	1055.7	1048.2	1044.9	1046.0	1041.7
5°	1101.3	1093.7	1076.3	1068.8	1066.6	1063.3	1066.6	1061.2	1055.7	1057.9	1055.7
7.5°	1128.4	1117.5	1095.9	1088.3	1087.2	1083.9	1088.3	1083.9	1079.6	1081.8	1077.4
10°	1156.6	1142.5	1118.6	1111.0	1111.0	1109.9	1114.3	1107.8	1103.4	1104.5	1102.4
12.5°	1197.7	1179.3	1153.3	1146.8	1143.5	1146.8	1147.9	1139.2	1131.6	1132.7	1129.5
15°	1247.6	1227.0	1198.8	1189.1	1186.9	1185.8	1181.5	1170.6	1160.9	1159.8	1156.6
17.5°	1301.8	1275.8	1242.2	1232.4	1222.7	1219.4	1208.6	1194.5	1179.3	1179.3	1175.0
20°	1353.8	1324.6	1284.5	1270.4	1256.3	1243.3	1224.8	1202.1	1182.6	1179.3	1175.0
22.5°	1410.2	1375.5	1328.9	1308.3	1283.4	1257.4	1225.9	1195.6	1170.6	1165.2	1162.0
25°	1473.1	1429.7	1374.4	1344.1	1304.0	1263.9	1217.3	1178.2	1149.0	1140.3	1138.1
27.5°	1542.4	1490.4	1423.2	1378.8	1320.2	1257.4	1197.7	1151.1	1115.4	1104.5	1101.3
30°	1612.9	1551.1	1467.6	1402.6	1320.2	1236.8	1162.0	1107.8	1066.6	1051.4	1049.2
32.5°	1683.3	1614.0	1507.7	1415.6	1307.2	1202.1	1115.4	1051.4	1004.8	986.4	990.7
35°	1767.9	1683.3	1544.6	1421.0	1285.5	1159.8	1062.3	987.5	939.8	923.5	926.8
37.5°	1855.7	1752.7	1573.9	1416.7	1255.2	1112.1	1002.6	930.0	870.4	842.2	845.5
40°	1931.6	1815.6	1594.5	1401.5	1216.2	1057.9	944.1	848.7	766.3	739.2	736.0
42.5°	2003.1	1862.2	1605.3	1378.8	1171.7	995.0	860.6	738.2	655.8	622.2	623.3
45°	2077.9	1907.7	1601.0	1348.4	1116.4	921.3	753.3	629.8	557.1	526.8	527.9
47.5°	2163.5	1956.5	1596.6	1315.9	1049.2	826.0	650.4	534.4	471.5	449.8	447.7
50°	2254.6	2010.7	1591.2	1275.8	974.5	719.7	548.5	445.5	392.4	378.3	375.0
52.5°	2357.5	2069.2	1588.0	1228.1	884.5	607.0	457.4	367.5	331.7	321.9	320.8
55°	2481.1	2137.5	1592.3	1170.6	776.1	500.8	380.5	316.5	292.7	287.2	286.2
57.5°	2631.8	2225.3	1605.3	1103.4	662.3	408.6	324.1	285.1	269.9	265.6	265.6
60°	2795.5	2325.0	1629.1	1027.6	548.5	337.1	287.2	260.1	253.6	259.1	259.1
62.5°	2972.1	2442.1	1671.4	935.4	442.2	285.1	258.0	239.5	235.2	246.1	247.1
65°	3135.8	2555.9	1698.5	824.9	351.2	247.1	235.2	219.0	221.1	232.0	230.9
67.5°	3236.6	2650.2	1660.6	686.1	278.6	219.0	211.4	197.3	202.7	211.4	212.5
70°	3174.8	2597.1	1473.1	518.1	217.9	190.8	185.4	176.7	181.0	191.9	196.2
72.5°	2872.4	2326.1	1145.7	350.1	175.6	160.4	162.6	158.3	163.7	173.4	183.2
75°	2331.5	1758.1	768.5	224.4	138.7	136.6	139.8	136.6	138.7	148.5	153.9
77.5°	1217.3	857.4	382.6	139.8	103.0	106.2	111.6	112.7	119.2	121.4	123.6
80°	568.0	385.9	159.3	78.0	68.3	74.8	85.6	86.7	88.9	92.1	93.2
82.5°	185.4	116.0	73.7	42.3	39.0	42.3	55.3	66.1	67.2	73.7	73.7
85°	19.5	11.9	16.3	17.3	15.2	18.4	24.9	23.8	10.8	6.5	6.5
87.5°	5.4	4.3	5.4	5.4	4.3	4.3	3.3	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)