

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: P799107

Luminaire Tested: **ARCH1-60-727-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799107
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: ARCH1-60-727-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6861 lumens
Efficiency: N/A
Efficacy: 114.3 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

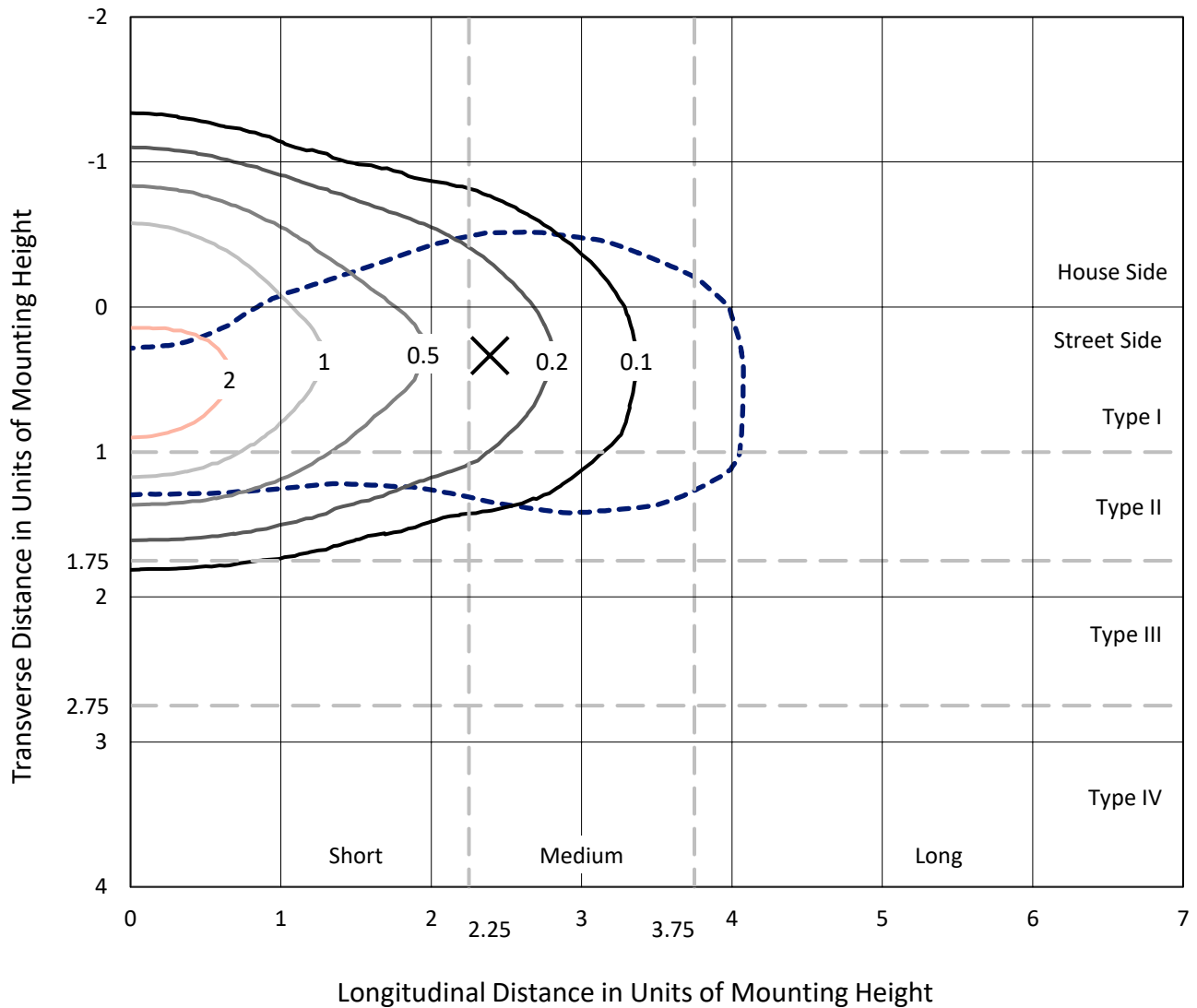
Input Watts (W): 60
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

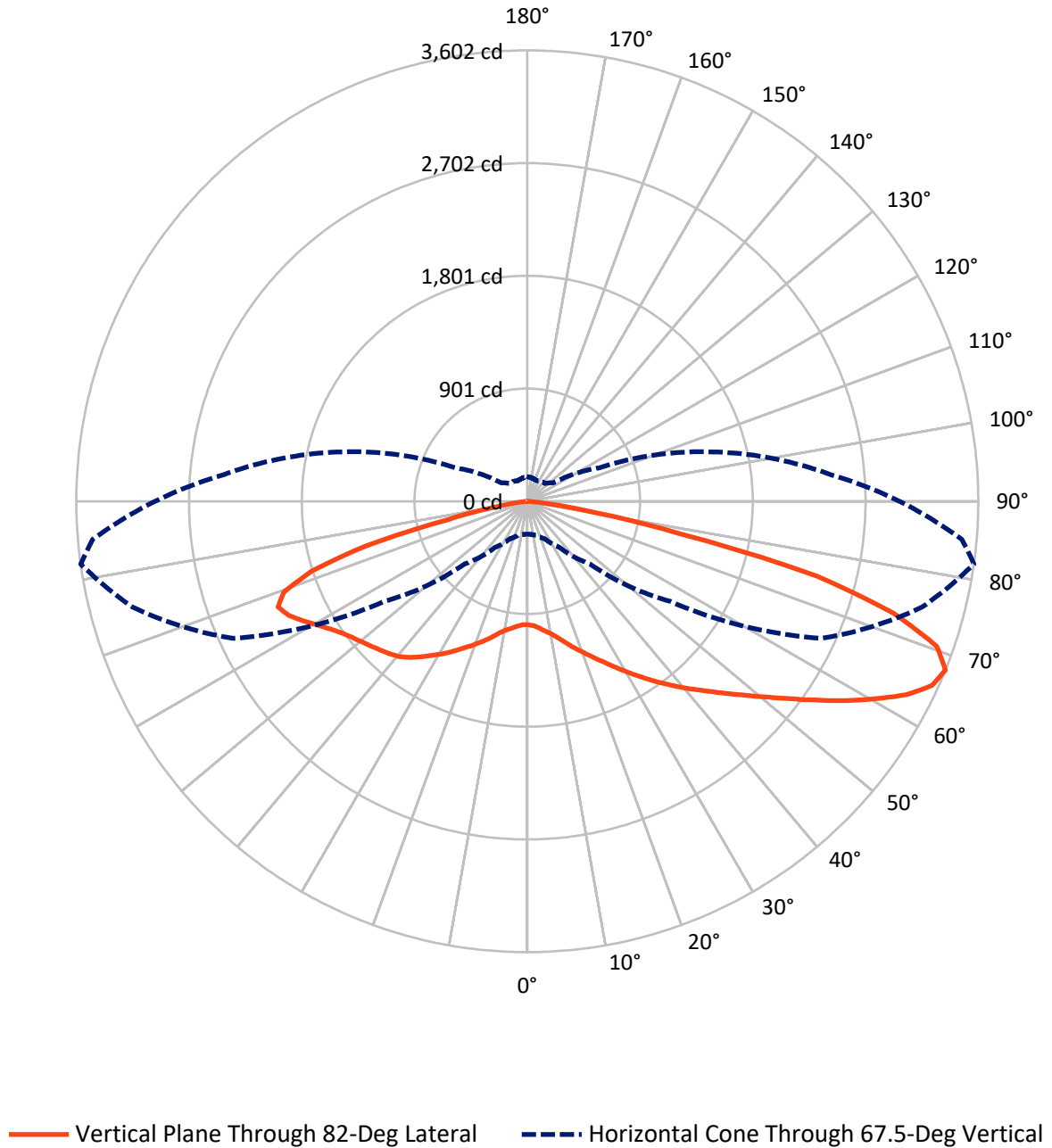
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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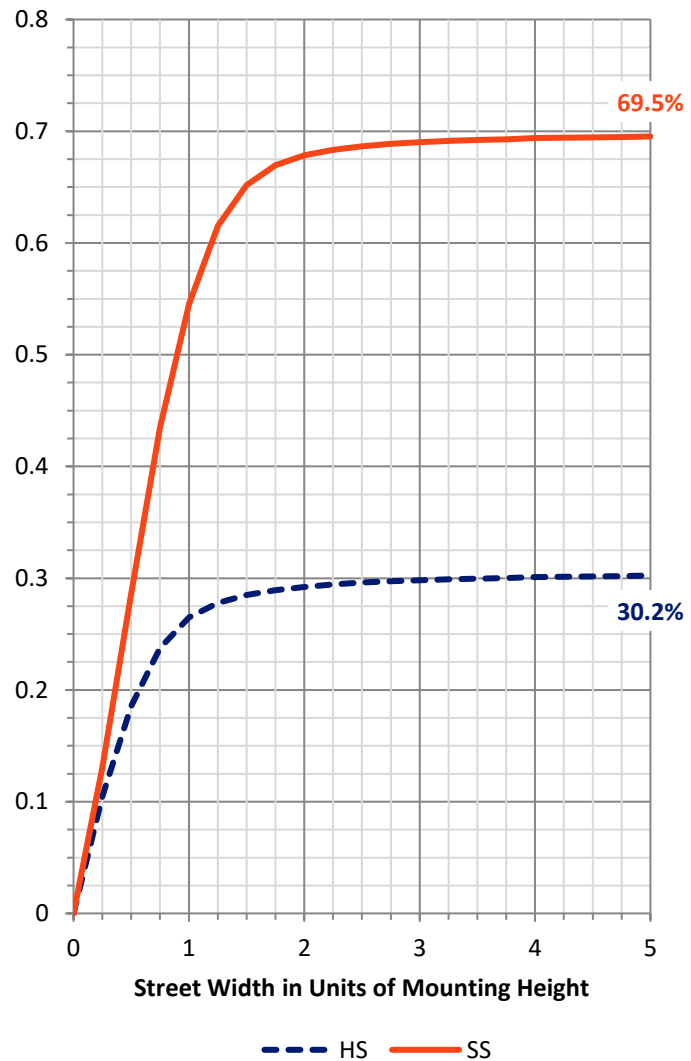
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2089.4	0.0	2089.4
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	4771.5	0.0	4771.5
	% Fixture	69.5	0.0	69.5
Total	Lumens	6861.0	0.0	6861.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.9	1.5
10°-20°	367.1	5.4
20°-30°	737.9	10.8
30°-40°	1159.1	16.9
40°-50°	1412.0	20.6
50°-60°	1334.2	19.4
60°-70°	1101.7	16.1
70°-80°	599.9	8.7
80°-90°	47.2	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°	6861.0	100.0
0°-180°	6861.0	100.0

Coefficient of Utilization



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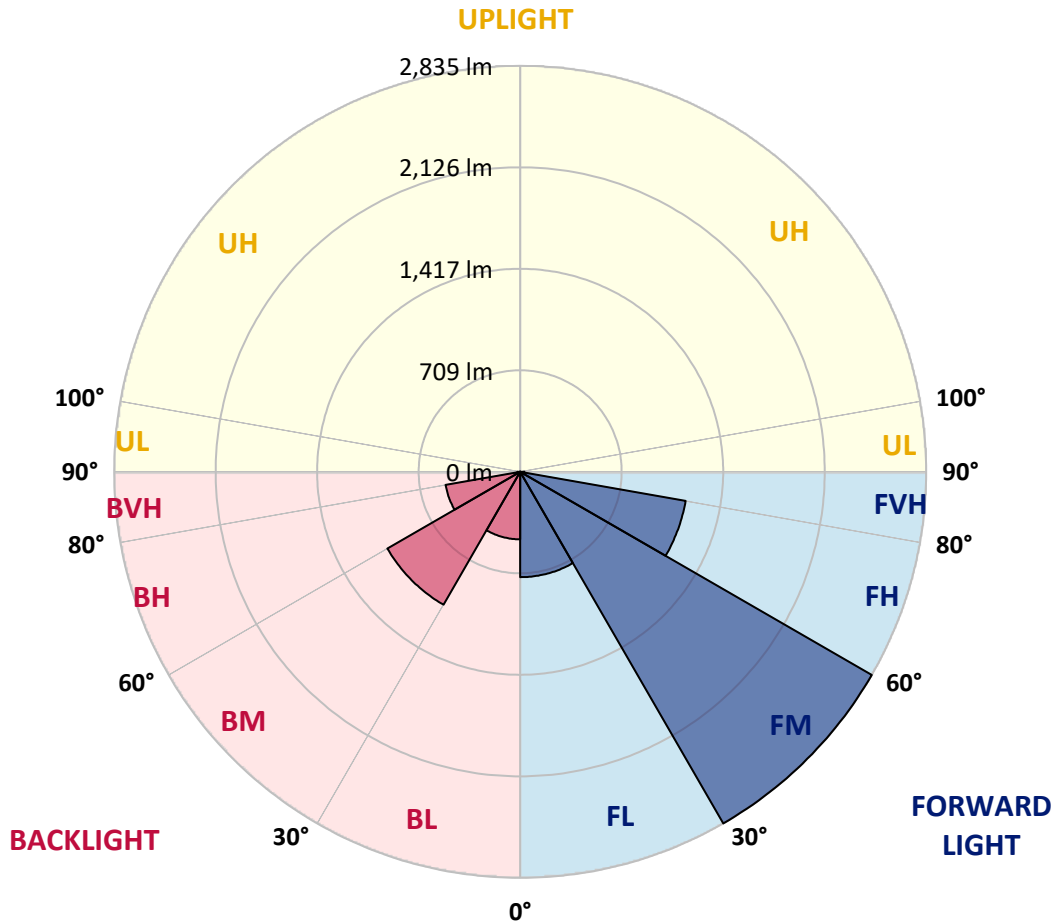
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	735.8	10.7			
FM (30°-60°)	2834.6	41.3			
FH (60°-80°)	1172.8	17.1			G1/1800
FVH (80°-90°)	28.4	0.4			G1/100
BL (0°-30°)	471.2	6.9	B1/500		
BM (30°-60°)	1070.7	15.6	B2/2500		
BH (60°-80°)	528.8	7.7	B2/1000		G2/1000
BVH (80°-90°)	18.7	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°	986.3	986.3	986.3	986.3	986.3	986.3	986.3	986.3	986.3	986.3	986.3
2.5°	1031.1	1031.1	1039.1	1039.1	1032.1	1021.1	1018.1	1006.2	995.2	995.2	996.2
5°	1129.7	1128.7	1134.7	1126.7	1109.8	1087.9	1072.9	1047.0	1025.1	1018.1	1017.1
7.5°	1250.3	1249.3	1252.3	1239.3	1207.4	1171.6	1141.7	1099.8	1064.0	1049.0	1045.0
10°	1384.8	1383.8	1380.8	1358.9	1316.0	1260.2	1215.4	1157.6	1103.8	1079.9	1074.9
12.5°	1539.2	1537.2	1530.2	1498.3	1439.5	1367.8	1303.1	1228.3	1156.6	1123.7	1112.8
15°	1711.5	1708.5	1695.6	1656.7	1578.0	1487.4	1403.7	1308.0	1220.4	1177.5	1162.6
17.5°	1892.8	1892.8	1872.9	1815.1	1727.5	1614.9	1511.3	1389.7	1287.1	1234.3	1216.4
20°	2077.1	2076.1	2051.2	1981.5	1877.9	1748.4	1616.9	1483.4	1355.9	1292.1	1270.2
22.5°	2271.4	2269.4	2238.5	2158.8	2035.3	1888.8	1735.4	1576.0	1431.6	1354.9	1327.0
25°	2494.6	2491.6	2453.7	2356.1	2209.6	2044.3	1868.9	1684.6	1518.3	1424.6	1391.7
27.5°	2731.7	2727.7	2682.8	2569.3	2408.9	2209.6	2016.4	1810.1	1613.9	1502.3	1465.5
30°	2942.9	2939.9	2891.1	2774.5	2590.2	2374.0	2156.8	1935.7	1714.5	1585.0	1539.2
32.5°	3102.3	3102.3	3058.4	2943.9	2752.6	2531.4	2298.3	2054.2	1819.1	1673.7	1619.9
35°	3198.9	3201.9	3164.0	3072.4	2892.0	2679.9	2444.7	2193.7	1930.7	1768.3	1710.5
37.5°	3212.8	3222.8	3200.9	3139.1	2988.7	2803.4	2588.2	2328.2	2046.3	1863.9	1799.2
40°	3148.1	3155.1	3156.0	3132.1	3028.5	2892.0	2714.7	2470.6	2168.8	1964.6	1889.8
42.5°	3018.6	3023.6	3032.5	3039.5	2999.6	2930.9	2811.4	2603.1	2299.3	2067.2	1979.5
45°	2851.2	2850.2	2865.2	2895.0	2893.0	2909.0	2865.2	2723.7	2434.8	2183.7	2079.1
47.5°	2601.1	2596.2	2649.0	2716.7	2750.6	2825.3	2866.1	2818.3	2582.2	2312.2	2192.7
50°	2209.6	2204.7	2320.2	2479.6	2579.2	2692.8	2811.4	2875.1	2736.6	2456.7	2316.2
52.5°	1733.4	1728.5	1874.9	2153.8	2371.0	2536.4	2700.8	2888.1	2883.1	2618.1	2455.7
55°	1289.1	1285.1	1427.6	1729.5	2081.1	2355.1	2565.3	2854.2	3020.6	2803.4	2625.1
57.5°	908.6	906.6	1030.1	1280.2	1708.5	2133.9	2434.8	2788.4	3147.1	3004.6	2816.3
60°	637.6	634.6	724.3	917.5	1292.1	1800.2	2305.3	2700.8	3241.7	3202.9	3019.6
62.5°	429.4	427.4	491.1	652.5	917.5	1385.8	2109.0	2642.0	3295.5	3402.1	3224.8
65°	325.8	324.8	353.7	442.3	649.5	995.2	1797.2	2635.0	3302.5	3551.6	3399.1
67.5°	263.0	264.0	279.9	330.7	449.3	707.3	1393.7	2591.2	3265.6	3602.4	3483.8
70°	215.2	215.2	222.2	256.0	331.7	477.2	973.3	2391.9	3163.0	3469.9	3383.2
72.5°	164.4	165.4	187.3	207.2	250.1	334.7	623.6	1979.5	2920.9	3059.4	2993.7
75°	130.5	129.5	142.5	170.4	194.3	239.1	382.6	1419.6	2485.6	2390.9	2349.1
77.5°	93.6	92.6	102.6	126.5	147.4	169.4	228.1	716.3	1351.9	1242.3	1211.4
80°	63.8	61.8	70.7	87.7	97.6	99.6	111.6	275.0	589.8	555.9	548.9
82.5°	32.9	32.9	37.9	49.8	50.8	51.8	49.8	88.7	195.3	182.3	174.3
85°	13.0	13.0	13.9	16.9	16.9	17.9	17.9	22.9	20.9	19.9	18.9
87.5°	1.0	1.0	2.0	2.0	3.0	3.0	3.0	4.0	5.0	5.0	5.0
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°	986.3	986.3	986.3	986.3	986.3	986.3	986.3	986.3	986.3	986.3	986.3
2.5°	994.2	990.3	977.3	974.3	972.3	969.3	970.3	963.4	960.4	961.4	957.4
5°	1012.2	1005.2	989.3	982.3	980.3	977.3	980.3	975.3	970.3	972.3	970.3
7.5°	1037.1	1027.1	1007.2	1000.2	999.2	996.2	1000.2	996.2	992.2	994.2	990.3
10°	1063.0	1050.0	1028.1	1021.1	1021.1	1020.1	1024.1	1018.1	1014.2	1015.2	1013.2
12.5°	1100.8	1083.9	1060.0	1054.0	1051.0	1054.0	1055.0	1047.0	1040.1	1041.1	1038.1
15°	1146.7	1127.7	1101.8	1092.9	1090.9	1089.9	1085.9	1075.9	1067.0	1066.0	1063.0
17.5°	1196.5	1172.6	1141.7	1132.7	1123.7	1120.8	1110.8	1097.8	1083.9	1083.9	1079.9
20°	1244.3	1217.4	1180.5	1167.6	1154.6	1142.7	1125.7	1104.8	1086.9	1083.9	1079.9
22.5°	1296.1	1264.2	1221.4	1202.4	1179.5	1155.6	1126.7	1098.8	1075.9	1070.9	1068.0
25°	1353.9	1314.0	1263.2	1235.3	1198.5	1161.6	1118.8	1082.9	1056.0	1048.0	1046.0
27.5°	1417.6	1369.8	1308.0	1267.2	1213.4	1155.6	1100.8	1058.0	1025.1	1015.2	1012.2
30°	1482.4	1425.6	1348.9	1289.1	1213.4	1136.7	1068.0	1018.1	980.3	966.3	964.3
32.5°	1547.1	1483.4	1385.8	1301.1	1201.5	1104.8	1025.1	966.3	923.5	906.6	910.6
35°	1624.8	1547.1	1419.6	1306.1	1181.5	1066.0	976.3	907.6	863.7	848.8	851.8
37.5°	1705.5	1610.9	1446.5	1302.1	1153.6	1022.1	921.5	854.8	800.0	774.1	777.1
40°	1775.3	1668.7	1465.5	1288.1	1117.8	972.3	867.7	780.0	704.3	679.4	676.4
42.5°	1841.0	1711.5	1475.4	1267.2	1076.9	914.5	791.0	678.4	602.7	571.8	572.8
45°	1909.8	1753.4	1471.4	1239.3	1026.1	846.8	692.4	578.8	512.1	484.2	485.2
47.5°	1988.5	1798.2	1467.4	1209.4	964.3	759.1	597.7	491.1	433.4	413.4	411.4
50°	2072.2	1848.0	1462.5	1172.6	895.6	661.5	504.1	409.4	360.6	347.7	344.7
52.5°	2166.8	1901.8	1459.5	1128.7	812.9	557.9	420.4	337.7	304.8	295.9	294.9
55°	2280.4	1964.6	1463.5	1075.9	713.3	460.3	349.7	290.9	269.0	264.0	263.0
57.5°	2418.8	2045.3	1475.4	1014.2	608.7	375.6	297.9	262.0	248.1	244.1	244.1
60°	2569.3	2136.9	1497.3	944.4	504.1	309.8	264.0	239.1	233.1	238.1	238.1
62.5°	2731.7	2244.5	1536.2	859.7	406.5	262.0	237.1	220.2	216.2	226.1	227.1
65°	2882.1	2349.1	1561.1	758.1	322.8	227.1	216.2	201.2	203.2	213.2	212.2
67.5°	2974.7	2435.8	1526.2	630.6	256.0	201.2	194.3	181.3	186.3	194.3	195.3
70°	2918.0	2387.0	1353.9	476.2	200.2	175.3	170.4	162.4	166.4	176.3	180.3
72.5°	2640.0	2137.9	1053.0	321.8	161.4	147.4	149.4	145.4	150.4	159.4	168.4
75°	2142.9	1615.9	706.3	206.2	127.5	125.5	128.5	125.5	127.5	136.5	141.5
77.5°	1118.8	788.0	351.7	128.5	94.6	97.6	102.6	103.6	109.6	111.6	113.6
80°	522.0	354.7	146.4	71.7	62.8	68.7	78.7	79.7	81.7	84.7	85.7
82.5°	170.4	106.6	67.7	38.9	35.9	38.9	50.8	60.8	61.8	67.7	67.7
85°	17.9	11.0	14.9	15.9	13.9	16.9	22.9	21.9	10.0	6.0	6.0
87.5°	5.0	4.0	5.0	5.0	4.0	4.0	3.0	1.0	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)