

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: P799605

Luminaire Tested: **ARCH2-40-722-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-40-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5654 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

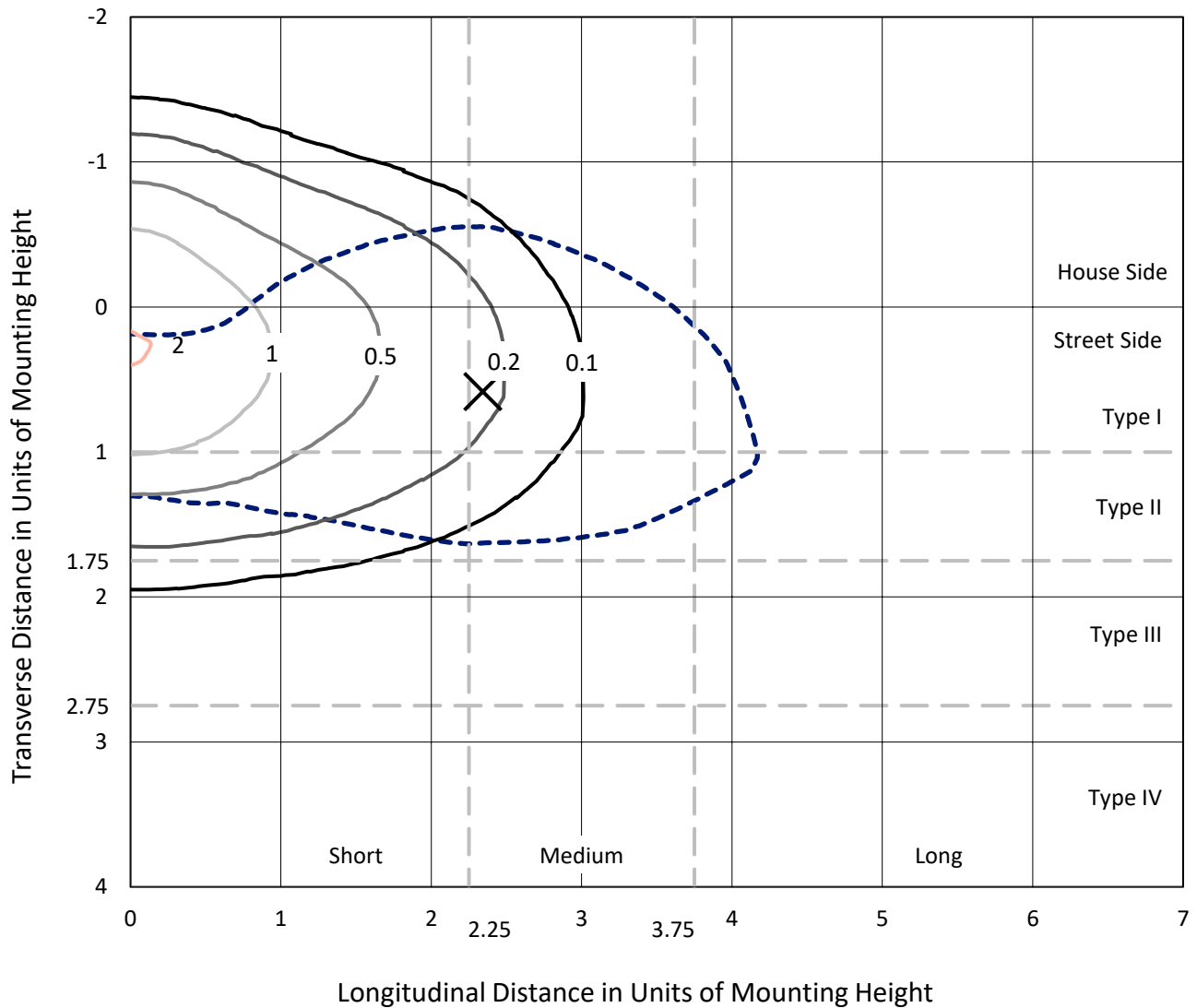
Input Watts (W): 44.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

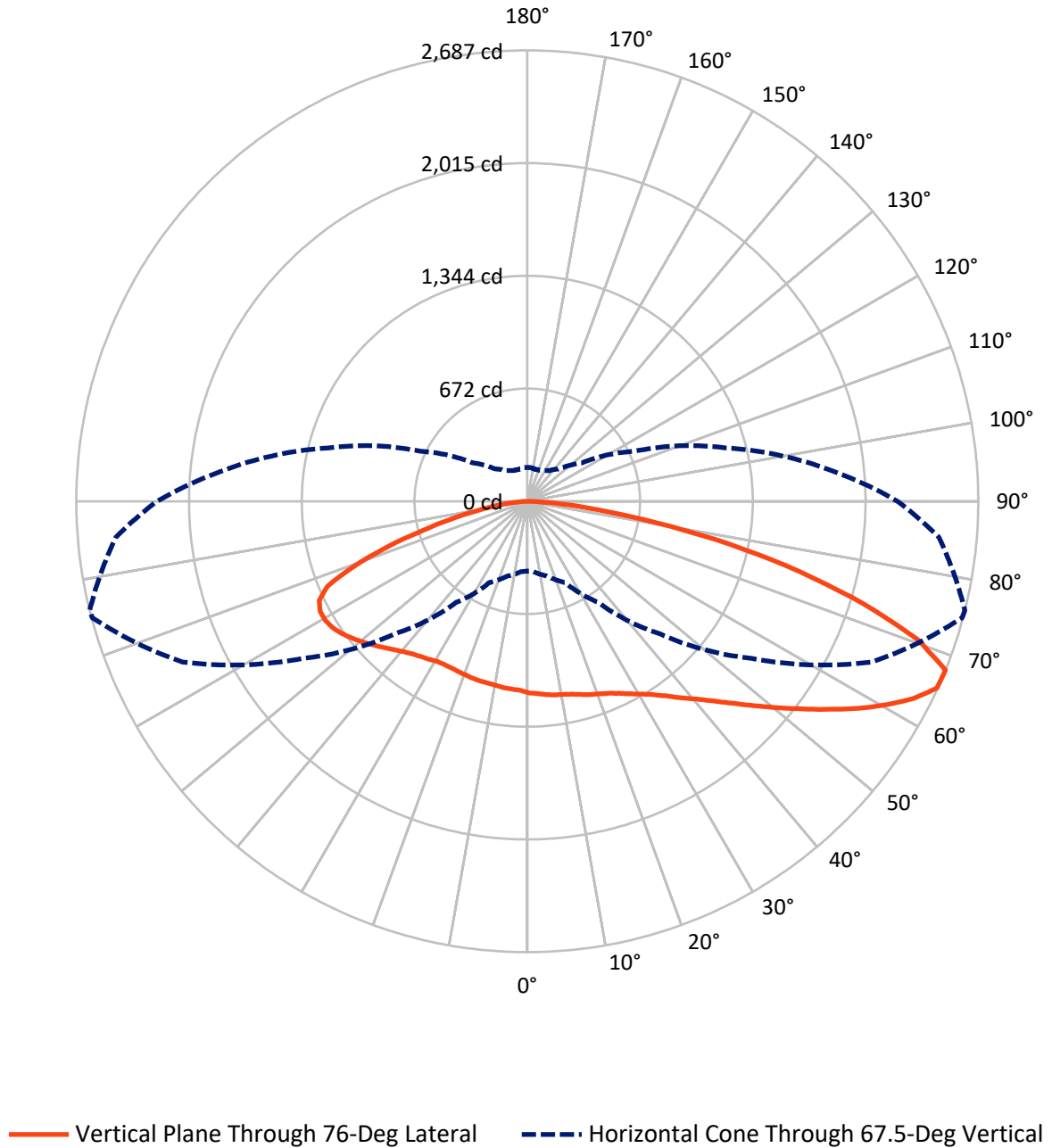
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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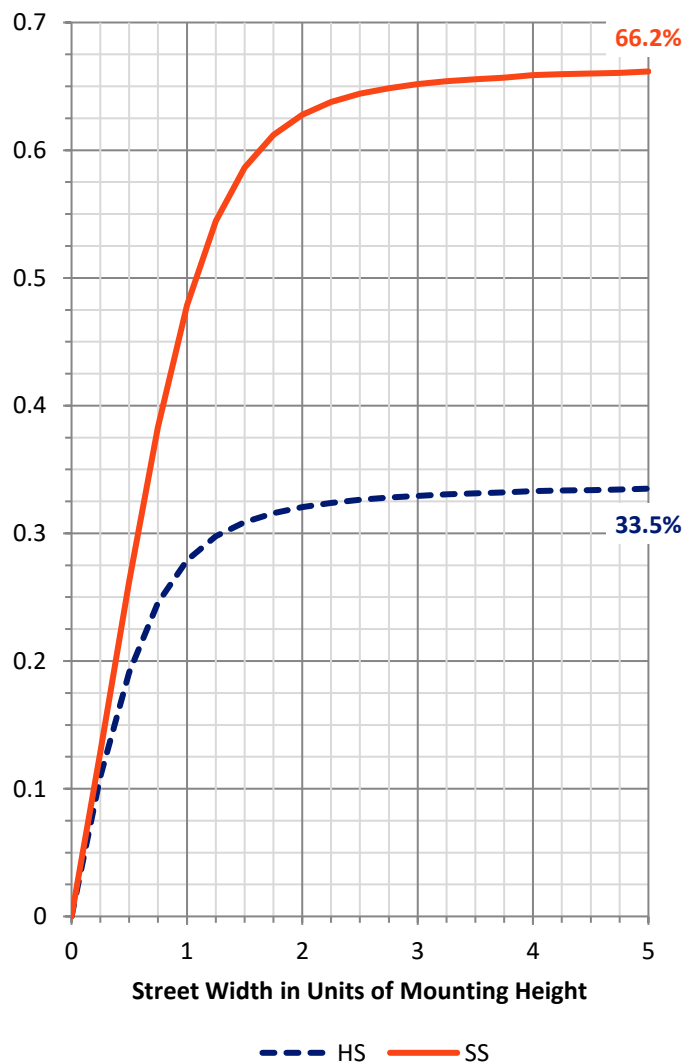
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1910.5	0.0	1910.5
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	3743.5	0.0	3743.5
	% Fixture	66.2	0.0	66.2
Total	Lumens	5654.0	0.0	5654.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.1	1.9
10°-20°	336.7	6.0
20°-30°	572.0	10.1
30°-40°	813.9	14.4
40°-50°	1028.0	18.2
50°-60°	1113.0	19.7
60°-70°	1035.2	18.3
70°-80°	556.0	9.8
80°-90°	89.1	1.6
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°	5654.0	100.0
0°-180°	5654.0	100.0

Coefficient of Utilization



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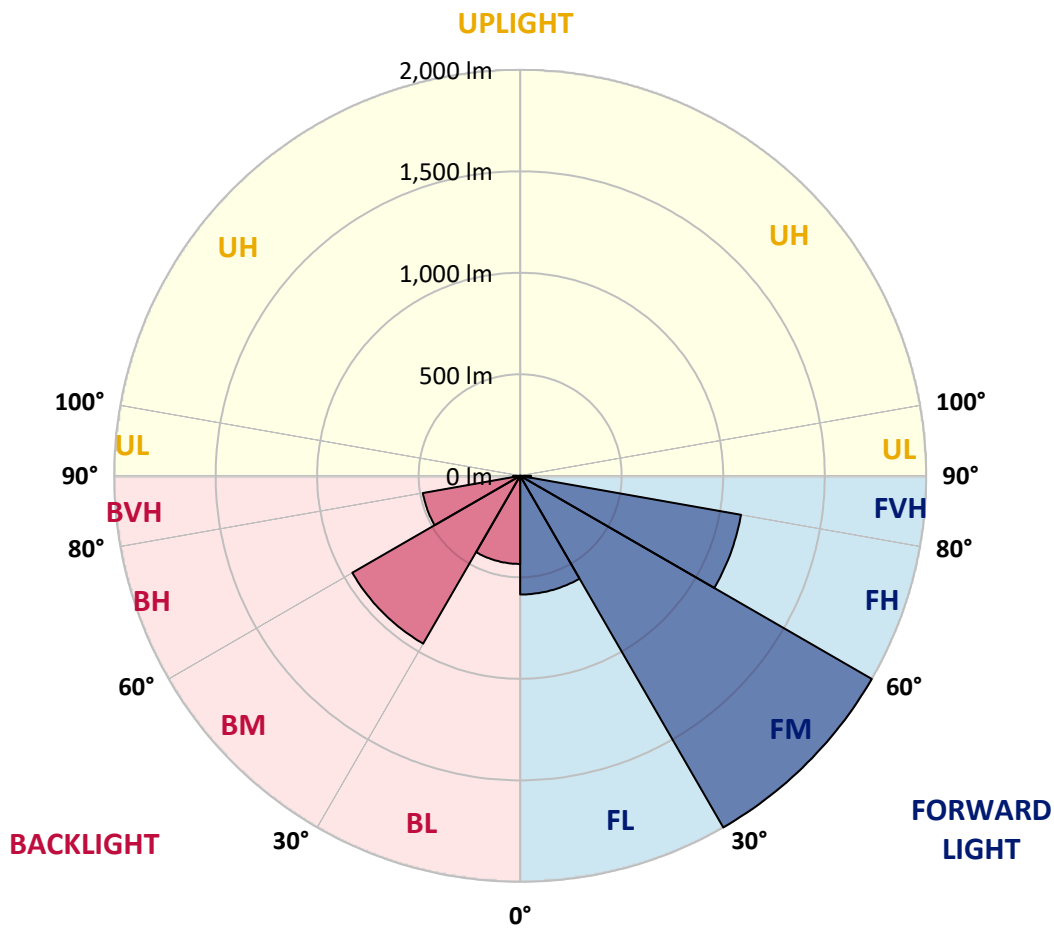
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	584.7	10.3			
FM (30°-60°)	2000.2	35.4			
FH (60°-80°)	1104.7	19.5			G1/1800
FVH (80°-90°)	53.9	1.0			G1/100
BL (0°-30°)	434.2	7.7	B1/500		
BM (30°-60°)	954.7	16.9	B1/1000		
BH (60°-80°)	486.4	8.6	B1/500		G1/500
BVH (80°-90°)	35.2	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1142.1	1142.1	1142.1	1142.1	1142.1	1142.1	1142.1	1142.1	1142.1	1142.1	1142.1
2.5°	1176.7	1174.6	1166.2	1167.3	1167.3	1166.2	1153.6	1148.4	1148.4	1147.3	1135.8
5°	1218.7	1215.6	1206.1	1204.0	1199.8	1194.6	1174.6	1163.1	1157.8	1156.8	1141.0
7.5°	1268.1	1263.9	1252.3	1246.0	1235.5	1221.9	1196.7	1178.8	1166.2	1165.2	1143.1
10°	1317.4	1313.2	1299.6	1288.0	1273.3	1251.3	1218.7	1192.5	1172.5	1170.4	1144.2
12.5°	1376.2	1372.0	1355.2	1340.5	1318.4	1289.1	1246.0	1210.3	1183.0	1179.9	1147.3
15°	1438.1	1431.8	1415.0	1398.2	1370.9	1333.1	1281.7	1234.5	1199.8	1194.6	1156.8
17.5°	1489.6	1481.2	1467.5	1450.7	1420.3	1376.2	1317.4	1258.6	1215.6	1211.4	1166.2
20°	1533.6	1527.3	1512.6	1496.9	1464.4	1416.1	1351.0	1282.8	1230.3	1225.0	1173.6
22.5°	1575.6	1567.2	1558.8	1547.3	1511.6	1458.1	1389.8	1312.2	1249.2	1242.9	1183.0
25°	1623.9	1614.5	1611.3	1605.0	1563.0	1508.4	1437.1	1348.9	1275.4	1268.1	1199.8
27.5°	1683.8	1673.3	1667.0	1667.0	1616.6	1559.9	1487.5	1391.9	1305.9	1299.6	1220.8
30°	1746.7	1734.1	1724.7	1724.7	1668.0	1611.3	1536.8	1435.0	1340.5	1333.1	1248.1
32.5°	1802.4	1789.8	1779.3	1778.2	1719.4	1662.8	1588.2	1482.2	1382.5	1373.0	1281.7
35°	1845.4	1833.9	1824.4	1826.5	1770.9	1715.2	1646.0	1545.2	1435.0	1424.5	1325.8
37.5°	1871.7	1867.5	1862.2	1869.6	1818.1	1765.6	1705.8	1606.1	1494.8	1485.4	1380.4
40°	1885.3	1882.1	1903.1	1912.6	1858.0	1810.8	1765.6	1669.1	1559.9	1549.4	1443.4
42.5°	1905.2	1931.5	1939.9	1937.8	1887.4	1845.4	1820.2	1737.3	1636.5	1627.1	1518.9
45°	1833.9	1827.6	1873.8	1898.9	1889.5	1867.5	1871.7	1819.2	1725.7	1716.3	1606.1
47.5°	1738.3	1729.9	1756.2	1818.1	1854.9	1875.8	1917.8	1904.2	1828.6	1820.2	1707.9
50°	1536.8	1548.3	1646.0	1728.9	1801.3	1873.8	1956.7	1995.5	1942.0	1933.6	1817.1
52.5°	1313.2	1324.7	1426.6	1617.6	1736.2	1858.0	1985.0	2086.8	2064.8	2055.4	1933.6
55°	1150.5	1175.7	1291.2	1429.7	1643.9	1808.7	2001.8	2180.3	2197.1	2188.7	2060.6
57.5°	988.8	1007.7	1094.9	1217.7	1517.9	1722.6	2000.8	2267.4	2335.6	2327.2	2189.7
60°	798.8	823.0	892.3	1024.5	1349.9	1619.7	1971.4	2335.6	2468.9	2462.6	2314.6
62.5°	668.7	676.0	725.4	839.8	1133.7	1489.6	1905.2	2372.4	2589.7	2585.5	2427.0
65°	538.5	539.6	584.7	680.2	924.8	1327.9	1792.9	2358.7	2681.0	2683.1	2507.8
67.5°	415.7	420.9	461.9	534.3	734.8	1118.0	1632.3	2266.3	2682.0	2687.3	2461.6
70°	287.6	291.8	353.8	424.1	567.9	891.2	1415.0	2021.8	2461.6	2465.8	2206.5
72.5°	202.6	204.7	270.8	339.1	444.0	671.8	1067.6	1672.2	2098.4	2101.5	1855.9
75°	151.2	153.3	191.0	257.2	340.1	465.0	729.6	1280.7	1676.4	1676.4	1465.4
77.5°	107.1	108.1	123.9	177.4	226.7	313.9	438.8	838.7	1230.3	1232.4	1067.6
80°	72.4	73.5	80.8	119.7	141.7	170.1	238.3	439.8	775.7	778.9	678.1
82.5°	37.8	39.9	45.1	60.9	71.4	94.5	122.8	223.6	429.3	437.7	407.3
85°	14.7	14.7	16.8	19.9	26.2	36.7	56.7	85.0	194.2	200.5	179.5
87.5°	5.2	5.2	6.3	6.3	7.3	8.4	9.4	12.6	22.0	22.0	21.0
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°	1142.1	1142.1	1142.1	1142.1	1142.1	1142.1	1142.1	1142.1	1142.1	1142.1	1142.1
2.5°	1131.6	1131.6	1126.3	1128.4	1127.4	1125.3	1123.2	1126.3	1123.2	1115.9	1114.8
5°	1133.7	1131.6	1123.2	1122.2	1119.0	1114.8	1109.6	1111.7	1106.4	1100.1	1099.1
7.5°	1134.7	1130.5	1119.0	1114.8	1108.5	1100.1	1091.7	1091.7	1084.4	1078.1	1077.0
10°	1132.6	1127.4	1111.7	1103.3	1091.7	1079.1	1067.6	1064.4	1056.0	1048.7	1048.7
12.5°	1133.7	1126.3	1106.4	1092.8	1077.0	1061.3	1046.6	1042.4	1035.0	1027.7	1026.6
15°	1140.0	1129.5	1104.3	1086.5	1063.4	1045.5	1029.8	1026.6	1020.3	1015.1	1015.1
17.5°	1146.3	1132.6	1101.2	1076.0	1047.6	1027.7	1013.0	1013.0	1008.8	1005.6	1005.6
20°	1149.4	1133.7	1094.9	1061.3	1028.7	1007.7	994.1	996.2	995.1	994.1	994.1
22.5°	1156.8	1135.8	1089.6	1047.6	1008.8	986.7	974.1	977.3	976.2	976.2	977.3
25°	1168.3	1141.0	1085.4	1035.0	989.9	965.7	952.1	954.2	954.2	954.2	954.2
27.5°	1184.1	1151.5	1084.4	1023.5	971.0	943.7	926.9	926.9	922.7	923.8	924.8
30°	1208.2	1171.5	1086.5	1013.0	951.0	916.4	896.5	893.3	892.3	894.4	895.4
32.5°	1237.6	1198.8	1099.1	1005.6	930.1	886.0	860.8	859.7	856.6	856.6	856.6
35°	1274.4	1225.0	1110.6	1004.6	909.1	853.4	826.1	823.0	815.6	812.5	812.5
37.5°	1321.6	1266.0	1124.3	997.2	891.2	821.9	789.4	778.9	770.5	769.4	769.4
40°	1379.3	1312.2	1144.2	988.8	872.3	789.4	746.4	728.5	729.6	733.8	733.8
42.5°	1447.6	1368.8	1169.4	984.6	845.0	755.8	696.0	675.0	682.3	686.5	687.6
45°	1527.3	1436.0	1197.7	979.4	819.8	718.0	642.4	616.2	619.3	620.4	621.4
47.5°	1619.7	1510.5	1227.1	975.2	791.5	670.8	583.6	549.0	548.0	541.7	543.8
50°	1716.3	1589.3	1257.6	967.8	756.8	615.1	521.7	480.8	472.4	462.9	464.0
52.5°	1819.2	1670.1	1285.9	956.3	713.8	558.5	462.9	418.8	402.0	391.5	393.6
55°	1932.5	1753.0	1313.2	938.4	668.7	501.8	410.4	365.3	344.3	335.9	337.0
57.5°	2036.5	1832.8	1333.1	916.4	619.3	450.3	364.3	320.2	306.5	305.5	306.5
60°	2137.2	1900.0	1341.5	886.0	568.9	403.1	321.2	287.6	278.2	283.4	284.5
62.5°	2222.3	1943.0	1337.3	845.0	517.5	358.0	286.6	262.4	256.1	266.6	267.7
65°	2271.6	1956.7	1308.0	786.2	461.9	313.9	254.0	227.8	224.6	230.9	234.1
67.5°	2206.5	1871.7	1228.2	705.4	399.9	272.9	222.5	201.5	196.3	201.5	201.5
70°	1955.6	1621.8	1039.2	577.3	331.7	233.0	193.1	178.5	174.3	178.5	177.4
72.5°	1629.2	1348.9	818.8	450.3	261.4	196.3	168.0	154.3	150.1	145.9	143.8
75°	1263.9	1024.5	594.1	330.7	197.3	157.5	140.7	128.1	117.6	121.8	119.7
77.5°	925.9	719.1	420.9	228.8	141.7	121.8	110.2	100.8	93.4	101.8	100.8
80°	596.2	465.0	281.3	153.3	97.6	85.0	80.8	75.6	82.9	108.1	110.2
82.5°	364.3	295.0	168.0	99.7	64.0	56.7	52.5	52.5	85.0	93.4	94.5
85°	162.7	156.4	91.3	51.4	35.7	32.5	29.4	37.8	34.6	25.2	26.2
87.5°	26.2	27.3	19.9	17.8	13.6	13.6	10.5	7.3	5.2	3.1	3.1
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)