

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: P397559

Luminaire Tested: **ARCH-S-PA1-100-740-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397559
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-100-740-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11785 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 96
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: 28.75 FT

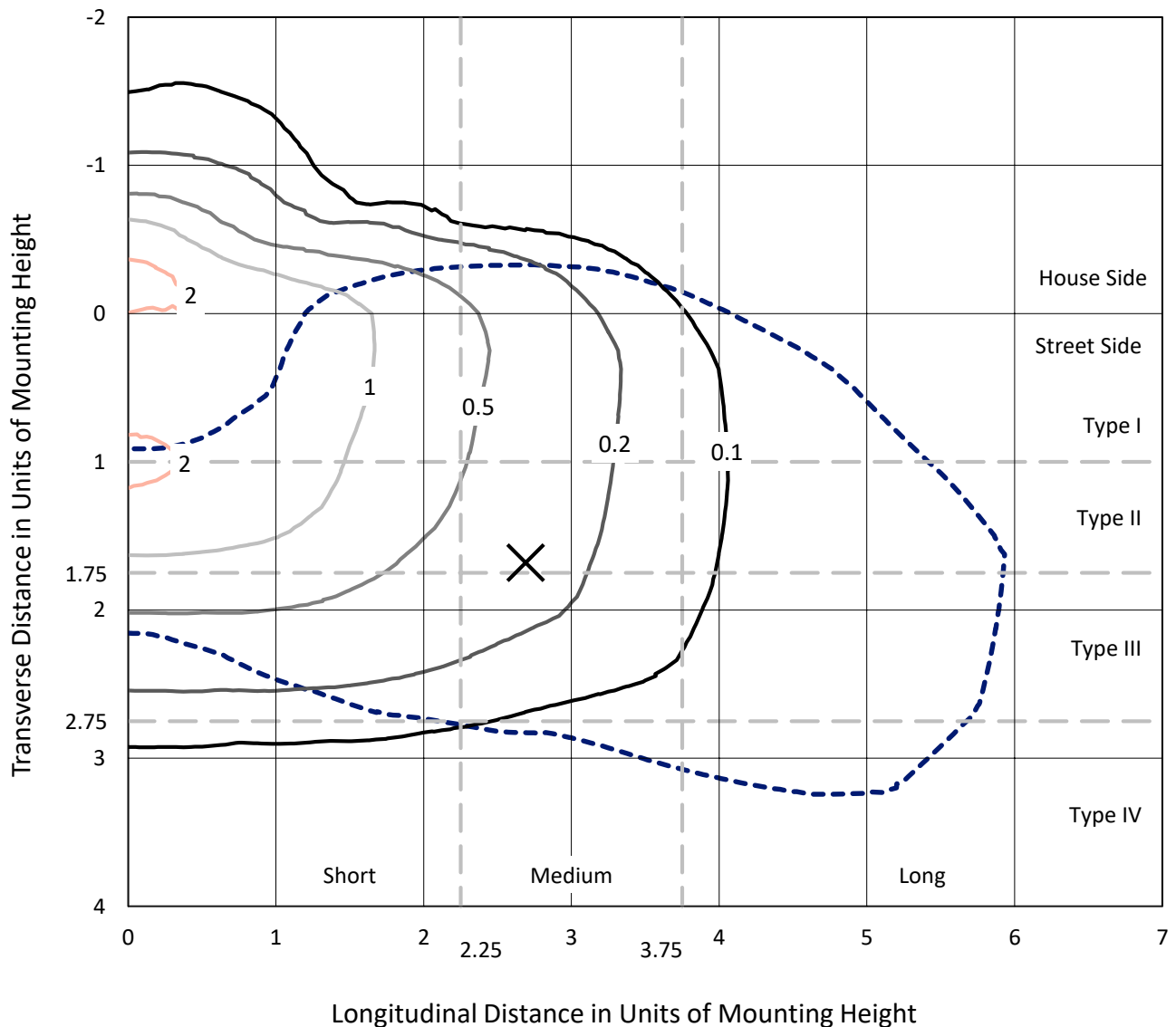


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

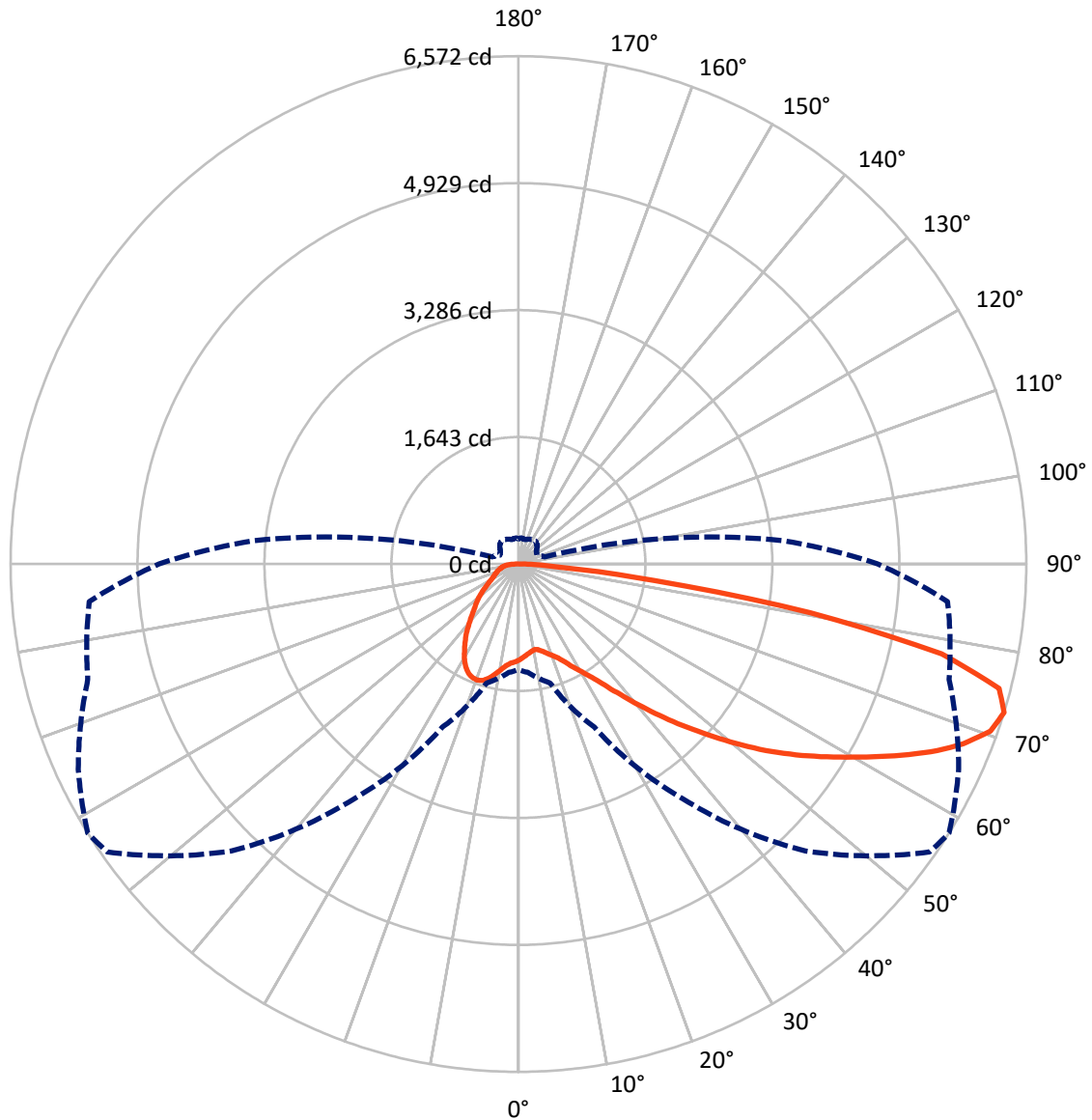


Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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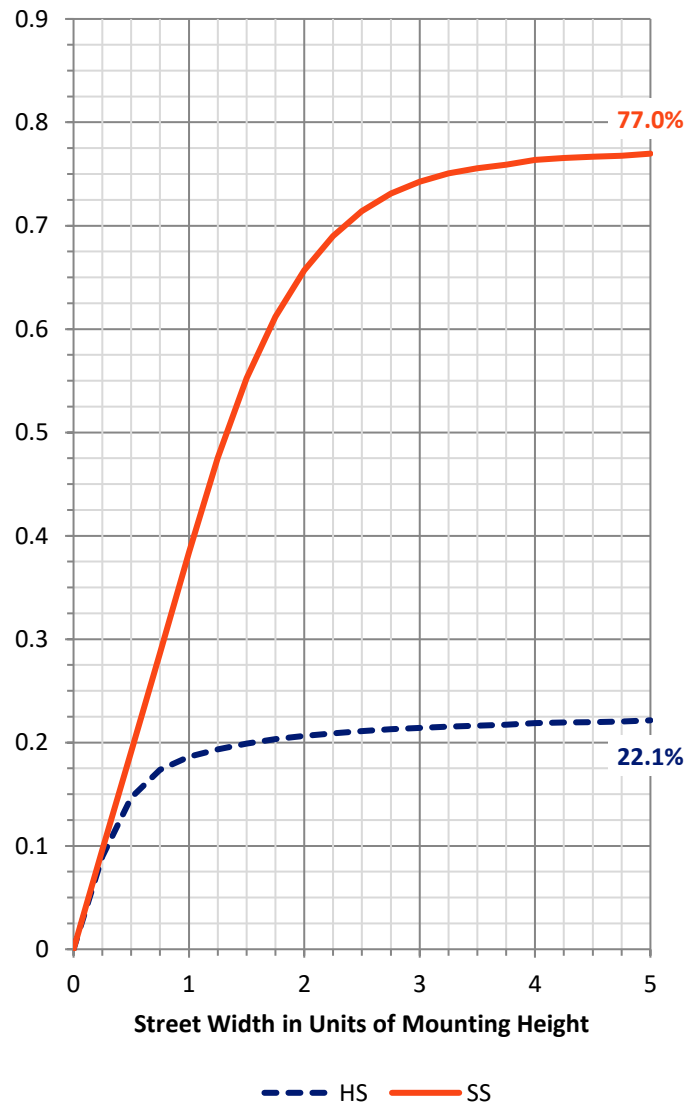
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2672.7	0.0	2672.7
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	9112.3	0.0	9112.3
	% Fixture	77.3	0.0	77.3
Total	Lumens	11785.0	0.0	11785.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	1.0
10°-20°	380.3	3.2
20°-30°	681.2	5.8
30°-40°	1024.7	8.7
40°-50°	1659.4	14.1
50°-60°	2498.0	21.2
60°-70°	2939.8	24.9
70°-80°	2084.6	17.7
80°-90°	397.2	3.4
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°	11785.0	100.0
0°-180°	11785.0	100.0

Coefficient of Utilization



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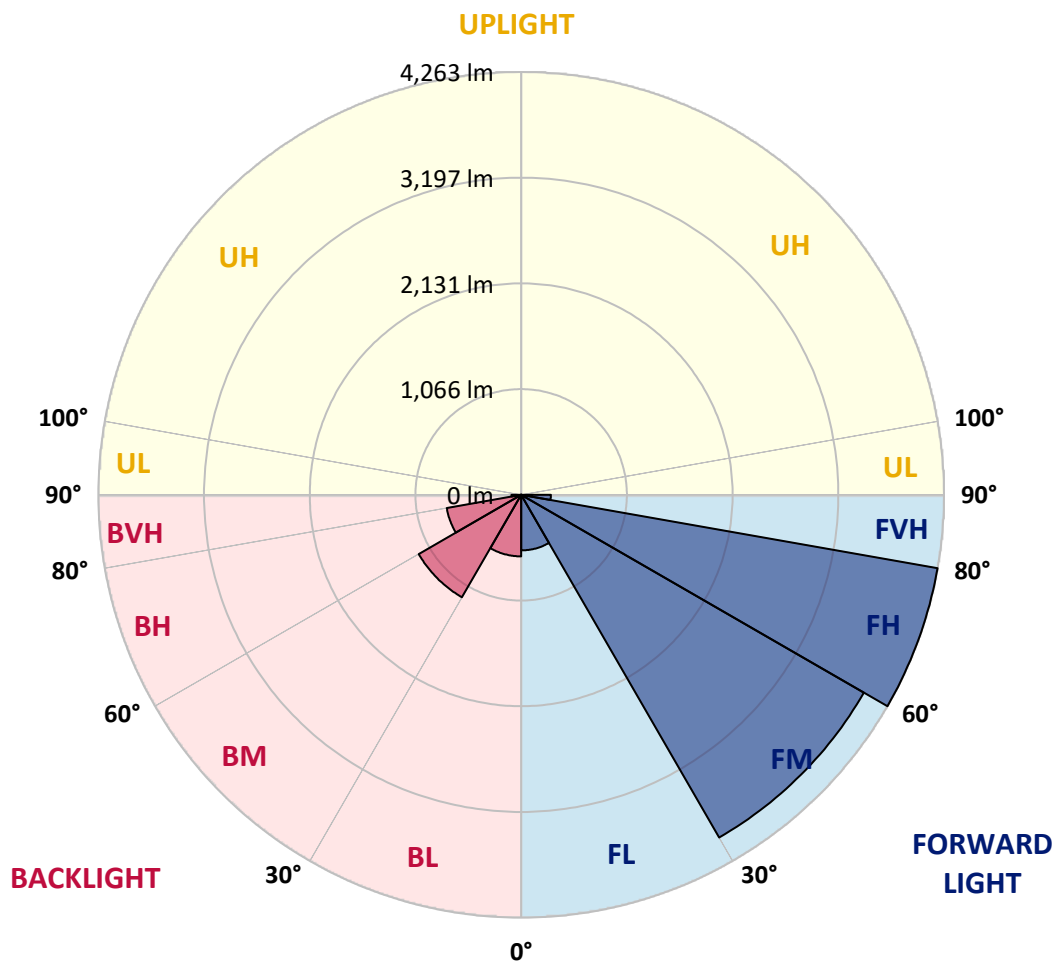
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	560.4	4.8			
FM	(30°-60°)	3989.6	33.9			
FH	(60°-80°)	4262.7	36.2			G2/5000
FVH	(80°-90°)	299.6	2.5			G3/500
BL	(0°-30°)	620.8	5.3	B2/1000		
BM	(30°-60°)	1192.5	10.1	B2/2500		
BH	(60°-80°)	761.7	6.5	B2/1000		G2/1000
BVH	(80°-90°)	97.6	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1
2.5°	1196.4	1190.2	1191.7	1191.7	1197.9	1201.1	1202.6	1207.3	1210.4	1218.2	1229.1
5°	1140.4	1135.7	1137.3	1138.8	1149.7	1160.6	1169.9	1176.2	1185.5	1197.9	1213.5
7.5°	1099.9	1096.8	1098.4	1101.5	1110.8	1123.3	1138.8	1148.2	1162.2	1185.5	1212.0
10°	1070.4	1070.4	1071.9	1078.2	1087.5	1103.0	1115.5	1126.4	1154.4	1196.4	1236.8
12.5°	1047.0	1047.0	1051.7	1064.2	1079.7	1095.3	1124.8	1137.3	1174.6	1232.2	1280.4
15°	1045.5	1047.0	1048.6	1059.5	1076.6	1110.8	1154.4	1173.1	1218.2	1286.6	1342.6
17.5°	1070.4	1071.9	1065.7	1068.8	1089.0	1137.3	1194.8	1216.6	1274.2	1348.9	1406.4
20°	1146.6	1146.6	1127.9	1110.8	1124.8	1177.7	1243.1	1264.8	1328.6	1411.1	1468.7
22.5°	1302.2	1310.0	1266.4	1229.1	1207.3	1236.8	1296.0	1319.3	1390.9	1479.5	1537.1
25°	1490.4	1498.2	1439.1	1386.2	1345.7	1341.1	1380.0	1404.9	1464.0	1555.8	1604.0
27.5°	1672.5	1658.5	1604.0	1554.2	1502.9	1460.9	1490.4	1512.2	1580.7	1650.7	1680.2
30°	1815.6	1804.7	1751.8	1716.0	1667.8	1613.3	1596.2	1619.6	1675.6	1740.9	1756.5
32.5°	1974.3	1966.5	1913.6	1866.9	1826.5	1775.1	1737.8	1748.7	1779.8	1826.5	1835.8
35°	2176.5	2193.6	2137.6	2042.7	1997.6	1947.8	1921.4	1924.5	1947.8	1977.4	1961.8
37.5°	2389.7	2409.9	2413.0	2263.7	2203.0	2157.9	2129.9	2140.8	2168.8	2189.0	2140.8
40°	2784.8	2764.6	2683.7	2573.3	2479.9	2436.3	2397.5	2395.9	2416.1	2451.9	2364.8
42.5°	3309.1	3290.5	3127.1	2984.0	2836.2	2786.4	2710.2	2677.5	2686.8	2731.9	2610.6
45°	3811.7	3803.9	3673.2	3506.7	3329.4	3232.9	3058.7	2979.3	2971.5	3007.3	2862.6
47.5°	4258.2	4223.9	4129.0	3999.9	3981.2	3729.2	3408.7	3301.4	3264.0	3284.2	3122.4
50°	4735.8	4619.1	4488.4	4409.1	4544.4	4309.5	3761.9	3649.9	3558.1	3572.1	3404.0
52.5°	4989.4	4793.4	4707.8	4731.1	4913.1	4822.9	4146.1	4009.2	3861.4	3881.7	3684.1
55°	4771.6	4770.0	4807.4	4952.0	5205.6	5101.4	4511.8	4357.7	4195.9	4200.6	4006.1
57.5°	4472.9	4533.5	4726.5	5045.4	5568.1	5393.9	4871.1	4707.8	4560.0	4536.6	4371.7
60°	4200.6	4267.5	4547.5	5029.8	5694.1	5661.5	5213.4	5070.3	4950.5	4882.0	4756.0
62.5°	3786.8	3836.5	4233.3	4930.3	5588.4	5854.4	5560.4	5462.3	5372.1	5230.5	5169.9
65°	3299.8	3316.9	3735.4	4602.0	5456.1	5929.1	5905.7	5862.2	5775.0	5566.6	5579.0
67.5°	2772.4	2806.6	3173.8	4077.7	5166.7	5894.8	6173.3	6209.1	6106.4	5793.7	5840.4
70°	2210.8	2252.8	2531.3	3352.7	4675.1	5747.0	6420.7	6478.3	6280.7	5868.4	5888.6
72.5°	1367.5	1408.0	1594.7	2329.0	3705.9	5250.8	6496.9	6571.6	6285.3	5768.8	5574.4
75°	473.0	477.6	623.9	1117.0	2199.9	3964.1	6248.0	6423.8	6087.8	5406.3	4850.9
77.5°	216.3	224.0	276.9	460.5	975.5	2139.2	5159.0	5599.2	5487.2	4840.0	3733.9
80°	149.4	152.5	191.4	275.4	563.2	753.0	3256.2	3830.3	4026.4	3747.9	2392.8
82.5°	112.0	115.1	147.8	186.7	406.1	365.6	1240.0	1779.8	2212.3	2171.9	1000.4
85°	107.3	105.8	115.1	124.5	270.7	217.8	401.4	550.7	863.5	739.0	252.0
87.5°	46.7	51.3	118.2	70.0	141.6	101.1	174.2	203.8	262.9	228.7	90.2
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°	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1	1243.1
2.5°	1233.7	1236.8	1246.2	1260.2	1268.0	1283.5	1294.4	1300.6	1305.3	1306.9	1306.9
5°	1222.8	1229.1	1249.3	1272.6	1294.4	1327.1	1356.6	1373.8	1386.2	1390.9	1392.4
7.5°	1226.0	1241.5	1271.1	1305.3	1333.3	1375.3	1411.1	1445.3	1473.3	1484.2	1484.2
10°	1255.5	1277.3	1317.7	1362.9	1398.6	1442.2	1479.5	1509.1	1541.8	1560.4	1563.6
12.5°	1300.6	1327.1	1380.0	1429.8	1470.2	1504.4	1538.7	1560.4	1576.0	1590.0	1593.1
15°	1364.4	1397.1	1450.0	1501.3	1537.1	1558.9	1568.2	1568.2	1566.7	1568.2	1571.3
17.5°	1428.2	1459.3	1512.2	1563.6	1580.7	1568.2	1557.3	1554.2	1552.7	1549.6	1551.1
20°	1490.4	1520.0	1565.1	1604.0	1590.0	1546.4	1532.4	1530.9	1526.2	1523.1	1520.0
22.5°	1552.7	1574.4	1611.8	1625.8	1569.8	1507.5	1490.4	1481.1	1474.9	1467.1	1459.3
25°	1624.2	1630.5	1658.5	1636.7	1520.0	1436.0	1411.1	1397.1	1390.9	1383.1	1376.9
27.5°	1691.1	1691.1	1695.8	1619.6	1446.9	1341.1	1303.7	1278.8	1277.3	1275.7	1274.2
30°	1751.8	1744.0	1728.5	1568.2	1352.0	1224.4	1168.4	1143.5	1152.8	1160.6	1162.2
32.5°	1823.4	1807.8	1764.3	1498.2	1238.4	1093.7	1025.3	1014.4	1025.3	1034.6	1028.4
35°	1935.4	1907.4	1801.6	1417.3	1129.5	973.9	908.6	893.0	889.9	888.3	875.9
37.5°	2095.6	2047.4	1831.2	1330.2	1022.1	868.1	819.9	787.2	757.7	726.5	721.9
40°	2291.7	2209.2	1851.4	1230.6	908.6	779.4	728.1	686.1	636.3	581.9	575.6
42.5°	2506.4	2383.5	1860.7	1120.2	809.0	706.3	642.5	589.6	533.6	491.6	483.8
45°	2738.2	2571.7	1852.9	1014.4	728.1	644.1	572.5	515.0	469.8	440.3	434.1
47.5°	2963.8	2788.0	1831.2	930.4	665.9	591.2	518.1	465.2	431.0	398.3	390.5
50°	3253.1	2994.9	1804.7	865.0	597.4	538.3	483.8	427.8	388.9	373.4	370.3
52.5°	3573.6	3201.8	1773.6	782.6	530.5	496.3	462.1	412.3	399.8	370.3	365.6
55°	3920.6	3447.6	1767.4	678.3	471.4	466.7	440.3	426.3	429.4	370.3	362.5
57.5°	4286.2	3710.5	1781.4	574.1	423.2	440.3	449.6	438.7	434.1	378.1	362.5
60°	4667.3	3964.1	1739.4	477.6	385.8	418.5	460.5	432.5	398.3	374.9	364.1
62.5°	5037.6	4177.3	1557.3	409.2	357.8	412.3	454.3	409.2	370.3	370.3	365.6
65°	5306.8	4272.2	1218.2	359.4	339.2	404.5	443.4	393.6	362.5	373.4	367.2
67.5°	5337.9	4174.2	818.3	320.5	323.6	390.5	418.5	379.6	354.7	382.7	373.4
70°	5146.5	3919.0	501.0	290.9	303.4	365.6	396.7	365.6	343.8	374.9	360.9
72.5°	4650.2	3442.9	353.2	266.0	281.6	342.3	376.5	353.2	328.3	339.2	325.2
75°	3814.8	2668.2	280.0	242.7	259.8	320.5	359.4	334.5	309.6	304.9	295.6
77.5°	2702.4	1709.8	225.6	224.0	236.5	294.0	336.0	312.7	287.8	278.5	272.3
80°	1554.2	838.6	194.5	202.3	214.7	267.6	308.0	287.8	264.5	250.5	241.1
82.5°	594.3	292.5	171.1	175.8	189.8	239.6	280.0	262.9	239.6	252.0	211.6
85°	192.9	160.2	140.0	144.7	158.7	199.1	247.4	233.4	206.9	183.6	169.6
87.5°	85.6	87.1	74.7	82.5	99.6	132.2	180.5	171.1	150.9	126.0	121.4
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)