

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: P691394

Luminaire Tested: **CRTK2-C016-5TLD-U-T2-7040-U0**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691394
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-3)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C016-5TLD-U-T2-7040-U0
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K LED WITH TYPE II OPTIC AND U0 SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5979 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Luminous Opening: Circular (Dia: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 42.8
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

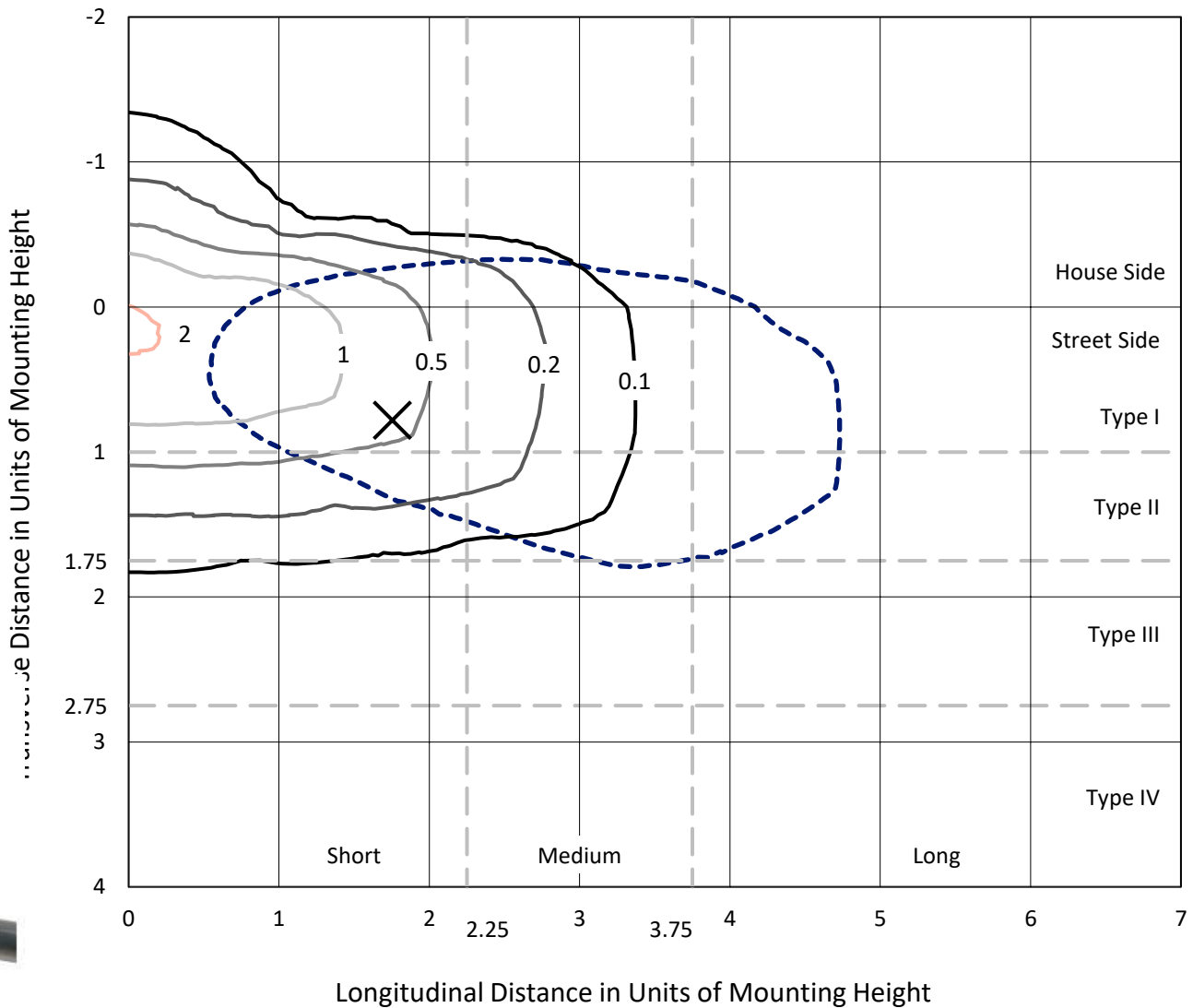


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

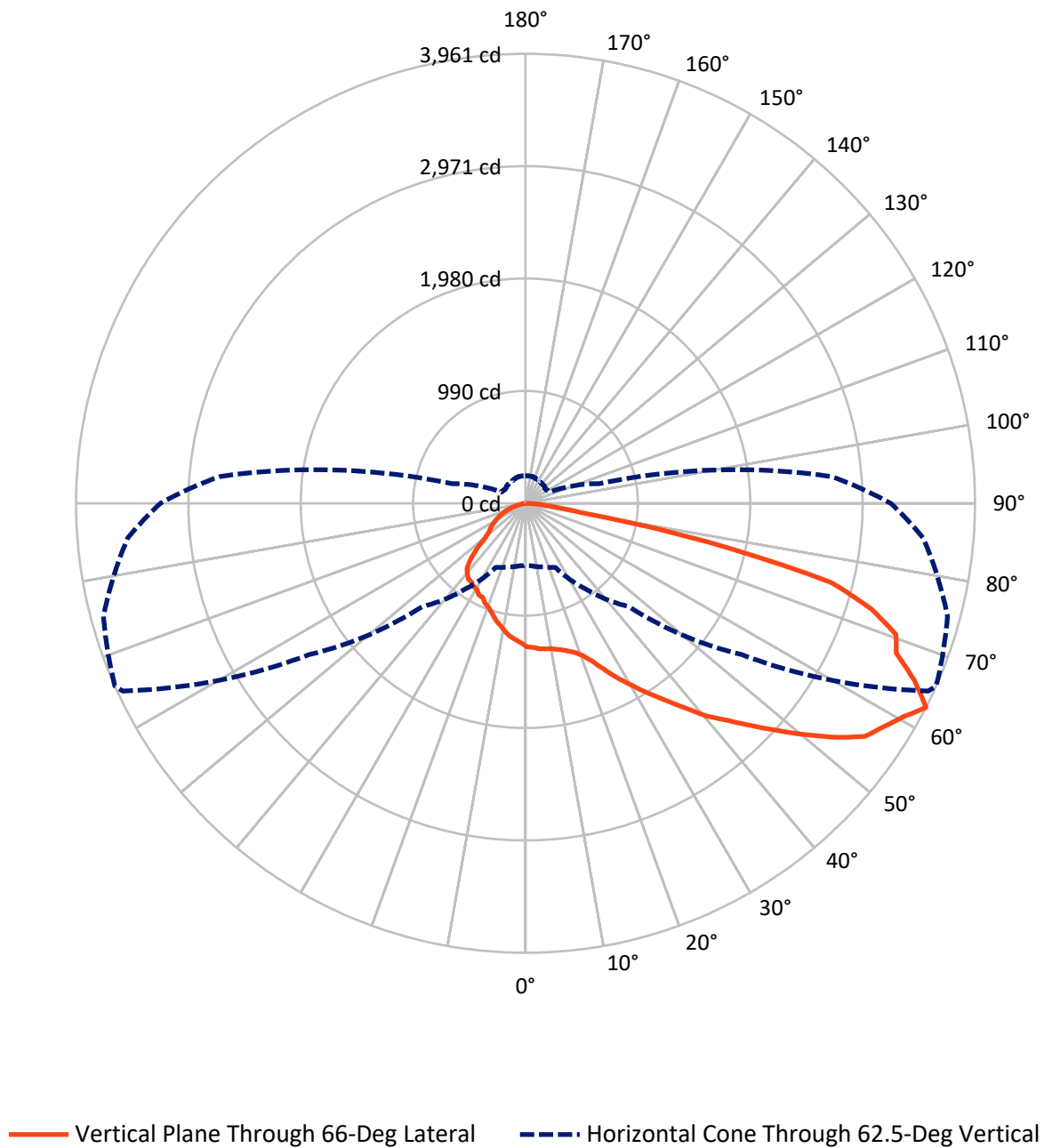


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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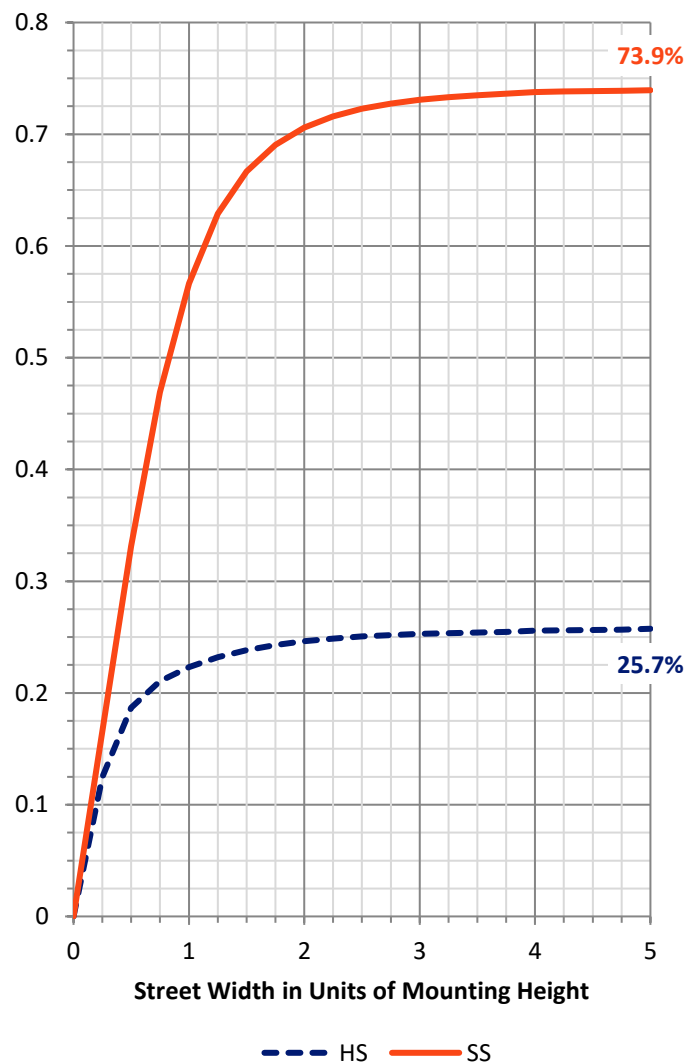
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1562.3	0.0	1562.3
	% Fixture	26.1	0.0	26.1
Street Side	Lumens	4416.7	0.0	4416.7
	% Fixture	73.9	0.0	73.9
Total	Lumens	5979.0	0.0	5979.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	2.0
10°-20°	335.8	5.6
20°-30°	545.2	9.1
30°-40°	786.3	13.2
40°-50°	1022.8	17.1
50°-60°	1188.0	19.9
60°-70°	1175.4	19.7
70°-80°	728.1	12.2
80°-90°	79.1	1.3
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°	5979.0	100.0
0°-180°	5979.0	100.0

Coefficient of Utilization



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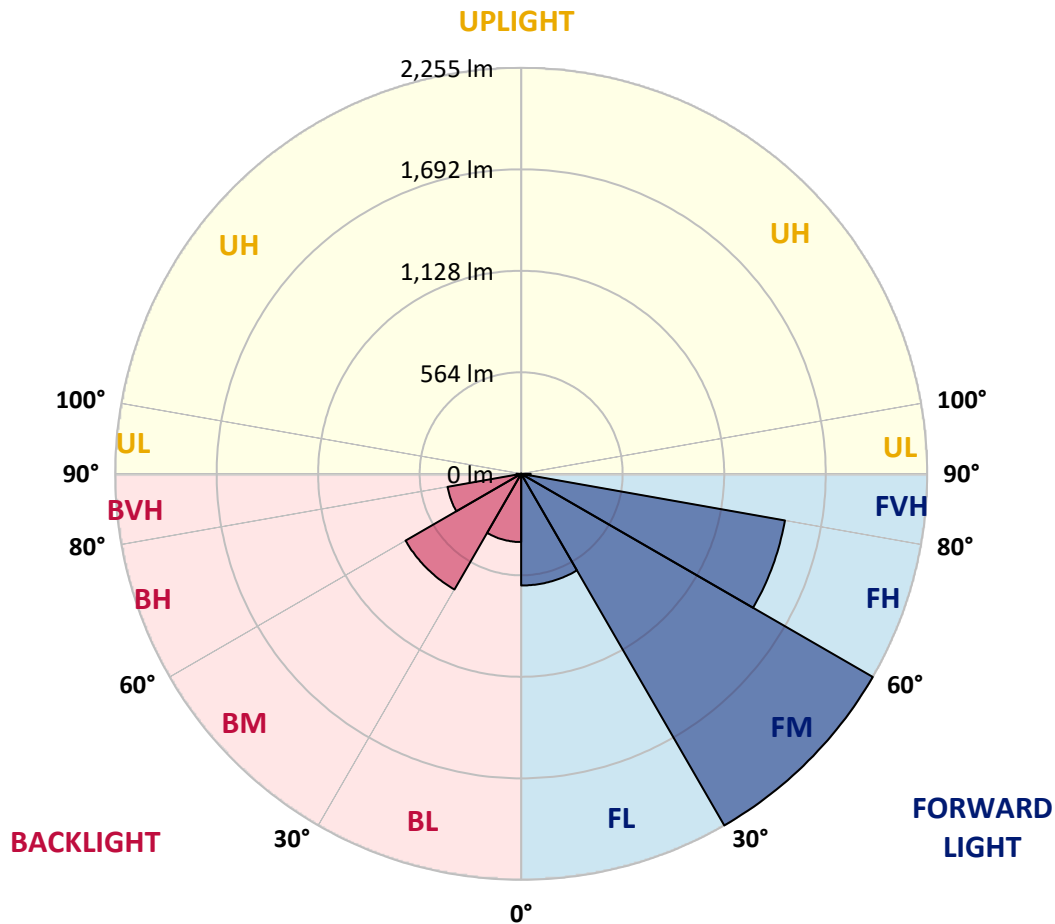
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	620.3	10.4			
FM	(30°-60°)	2255.4	37.7			
FH	(60°-80°)	1488.0	24.9			G1/1800
FVH	(80°-90°)	53.0	0.9			G1/100
BL	(0°-30°)	379.0	6.3	B1/500		
BM	(30°-60°)	741.8	12.4	B1/1000		
BH	(60°-80°)	415.5	6.9	B1/500		G1/500
BVH	(80°-90°)	26.0	0.4			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7
2.5°	1309.9	1309.9	1314.1	1299.7	1291.4	1285.3	1279.1	1272.9	1270.9	1264.7	1256.5
5°	1367.5	1367.5	1369.6	1355.2	1338.7	1320.2	1301.7	1289.4	1289.4	1275.0	1254.4
7.5°	1398.4	1398.4	1398.4	1381.9	1371.6	1359.3	1330.5	1295.6	1293.5	1279.1	1250.3
10°	1398.4	1398.4	1406.6	1381.9	1373.7	1361.4	1344.9	1307.9	1303.8	1270.9	1231.8
12.5°	1423.0	1427.2	1423.0	1396.3	1388.1	1377.8	1355.2	1324.3	1322.3	1279.1	1223.6
15°	1458.0	1460.1	1453.9	1435.4	1427.2	1410.7	1384.0	1351.1	1347.0	1295.6	1229.7
17.5°	1466.2	1468.3	1472.4	1449.8	1449.8	1443.6	1429.2	1390.1	1379.9	1334.6	1248.3
20°	1462.1	1464.2	1470.3	1466.2	1468.3	1464.2	1474.5	1441.6	1429.2	1379.9	1277.0
22.5°	1480.6	1484.7	1497.1	1499.1	1507.4	1515.6	1519.7	1521.8	1513.5	1456.0	1336.7
25°	1486.8	1499.1	1515.6	1538.2	1567.0	1583.5	1606.1	1628.7	1626.6	1569.1	1435.4
27.5°	1458.0	1472.4	1523.8	1558.8	1622.5	1667.8	1719.2	1750.0	1750.0	1702.7	1548.5
30°	1484.7	1490.9	1517.6	1567.0	1641.0	1743.9	1824.1	1863.1	1867.2	1836.4	1659.5
32.5°	1429.2	1443.6	1509.4	1604.0	1717.1	1830.2	1910.4	1994.7	1998.8	1988.6	1822.0
35°	1423.0	1431.3	1468.3	1569.1	1715.1	1910.4	2017.4	2124.3	2134.6	2146.9	1980.3
37.5°	1359.3	1375.8	1447.7	1573.2	1772.6	1963.9	2107.8	2272.4	2288.8	2327.9	2116.1
40°	1291.4	1303.8	1363.4	1499.1	1754.1	2031.8	2196.3	2447.2	2467.7	2500.6	2303.2
42.5°	1198.9	1223.6	1326.4	1468.3	1745.9	2052.3	2295.0	2607.6	2615.8	2673.4	2451.3
45°	1112.5	1120.8	1198.9	1361.4	1673.9	2083.2	2369.0	2788.5	2794.7	2831.7	2574.6
47.5°	1042.6	1052.9	1133.1	1270.9	1608.1	2074.9	2443.0	2963.3	2992.1	3033.2	2724.8
50°	826.7	849.3	1061.1	1192.7	1495.0	2060.5	2502.7	3173.1	3206.0	3245.0	2885.2
52.5°	713.6	723.9	830.8	1114.6	1384.0	1998.8	2558.2	3386.9	3426.0	3405.4	3088.8
55°	664.2	670.4	719.8	960.4	1285.3	1881.6	2599.3	3586.4	3627.5	3528.8	3249.2
57.5°	629.3	637.5	666.3	785.6	1174.2	1676.0	2603.4	3703.6	3718.0	3631.7	3315.0
60°	582.0	588.1	629.3	686.8	1044.7	1460.1	2529.4	3755.0	3822.9	3740.6	3463.0
62.5°	547.0	553.2	579.9	623.1	919.2	1287.3	2323.8	3915.4	3960.7	3849.6	3518.6
65°	505.9	505.9	532.6	575.8	839.0	1182.4	2216.8	3864.0	3765.3	3818.8	3586.4
67.5°	446.2	450.4	477.1	512.1	703.3	1081.7	1953.6	3625.5	3522.7	3670.7	3407.5
70°	396.9	392.8	421.6	448.3	575.8	954.2	1618.4	3378.7	3463.0	3446.6	3243.0
72.5°	331.1	327.0	351.6	380.4	464.8	791.7	1279.1	3136.1	3185.4	3082.6	2876.9
75°	257.1	232.4	267.3	304.4	366.0	627.2	906.9	2597.3	2782.3	2905.7	2453.3
77.5°	41.1	41.1	51.4	72.0	119.3	318.7	405.1	1427.2	1636.9	2473.9	2151.0
80°	32.9	32.9	37.0	49.4	72.0	174.8	135.7	442.1	493.5	1067.3	1238.0
82.5°	18.5	18.5	26.7	32.9	45.2	53.5	59.6	215.9	240.6	378.4	479.1
85°	10.3	10.3	14.4	16.5	18.5	18.5	18.5	98.7	111.0	201.5	218.0
87.5°	6.2	6.2	6.2	6.2	6.2	4.1	2.1	2.1	2.1	2.1	2.1
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°	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7	1264.7
2.5°	1252.4	1246.2	1235.9	1227.7	1221.5	1215.3	1205.1	1198.9	1198.9	1209.2	1211.2
5°	1242.1	1227.7	1209.2	1201.0	1190.7	1180.4	1163.9	1155.7	1153.7	1159.8	1163.9
7.5°	1233.9	1213.3	1194.8	1174.2	1143.4	1116.6	1102.2	1092.0	1096.1	1106.4	1102.2
10°	1209.2	1190.7	1161.9	1131.0	1094.0	1071.4	1048.8	1036.4	1038.5	1044.7	1038.5
12.5°	1198.9	1174.2	1126.9	1089.9	1057.0	1013.8	985.0	966.5	966.5	976.8	976.8
15°	1198.9	1161.9	1098.1	1052.9	1001.5	958.3	925.4	908.9	919.2	913.1	908.9
17.5°	1209.2	1151.6	1079.6	1003.5	941.8	898.7	859.6	837.0	843.1	847.2	843.1
20°	1221.5	1151.6	1057.0	964.5	892.5	830.8	787.6	762.9	760.9	762.9	767.0
22.5°	1262.6	1178.3	1042.6	939.8	830.8	771.2	728.0	684.8	682.7	680.7	684.8
25°	1332.6	1227.7	1052.9	894.5	795.8	707.4	653.9	616.9	604.6	602.5	606.6
27.5°	1447.7	1314.1	1069.3	888.4	732.1	651.9	586.1	545.0	532.6	536.7	534.7
30°	1573.2	1425.1	1116.6	845.2	695.1	569.6	507.9	473.0	460.6	452.4	454.5
32.5°	1665.7	1536.2	1176.3	830.8	623.1	481.2	436.0	415.4	401.0	390.7	388.7
35°	1811.7	1630.7	1229.7	797.9	559.3	423.6	386.6	364.0	355.8	349.6	349.6
37.5°	1951.6	1745.9	1283.2	787.6	477.1	384.6	339.3	324.9	320.8	316.7	316.7
40°	2091.4	1863.1	1314.1	746.5	411.3	337.3	294.1	292.0	298.2	294.1	296.1
42.5°	2264.1	1984.5	1344.9	707.4	364.0	287.9	263.2	279.7	292.0	294.1	294.1
45°	2383.4	2066.7	1357.2	612.8	314.6	250.9	257.1	275.6	290.0	296.1	294.1
47.5°	2492.4	2177.8	1338.7	497.7	273.5	244.7	255.0	267.3	287.9	296.1	296.1
50°	2599.3	2270.3	1322.3	368.1	259.1	246.8	255.0	261.2	283.8	292.0	292.0
52.5°	2749.4	2344.3	1266.8	308.5	246.8	248.8	261.2	259.1	277.6	290.0	294.1
55°	2957.1	2517.1	1159.8	292.0	244.7	246.8	261.2	261.2	273.5	283.8	290.0
57.5°	3049.7	2591.1	978.9	275.6	238.5	244.7	255.0	257.1	271.4	277.6	275.6
60°	3154.6	2683.6	802.0	257.1	228.3	240.6	244.7	252.9	263.2	263.2	261.2
62.5°	3218.3	2706.3	668.3	236.5	215.9	226.2	226.2	234.4	242.7	242.7	242.7
65°	3249.2	2683.6	499.7	218.0	201.5	209.8	207.7	211.8	218.0	207.7	207.7
67.5°	3127.8	2599.3	345.5	193.3	185.1	193.3	191.2	193.3	191.2	183.0	185.1
70°	2920.1	2362.8	238.5	164.5	162.5	176.9	178.9	174.8	162.5	156.3	156.3
72.5°	2659.0	1896.0	164.5	131.6	137.8	156.3	160.4	152.2	139.8	133.7	133.7
75°	2412.2	1639.0	117.2	90.5	92.5	119.3	127.5	127.5	123.4	164.5	174.8
77.5°	1678.0	1061.1	67.9	47.3	45.2	67.9	78.1	80.2	154.2	166.6	162.5
80°	995.3	499.7	49.4	28.8	28.8	39.1	53.5	104.9	176.9	119.3	106.9
82.5°	380.4	191.2	30.8	18.5	16.5	20.6	30.8	162.5	102.8	67.9	61.7
85°	137.8	47.3	14.4	10.3	10.3	12.3	18.5	137.8	72.0	51.4	49.4
87.5°	2.1	2.1	4.1	4.1	4.1	2.1	2.1	4.1	4.1	4.1	2.1
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)