

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: P691486

Luminaire Tested: **CRTK2-C016-D-U-T2-7040-U0**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691486
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-D-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: 5691 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Luminous Opening: Circular (Dia: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

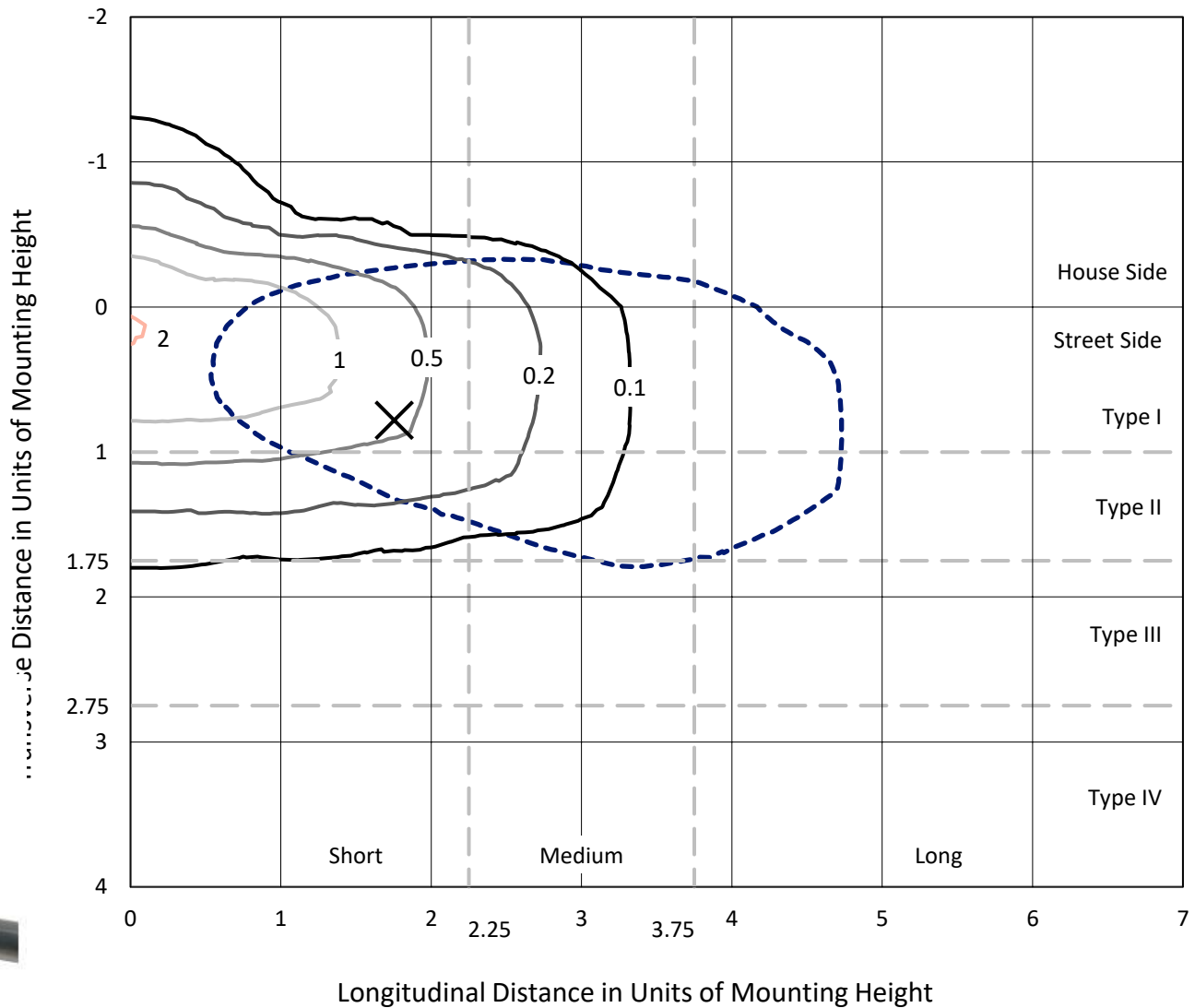
Input Watts (W): 41.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

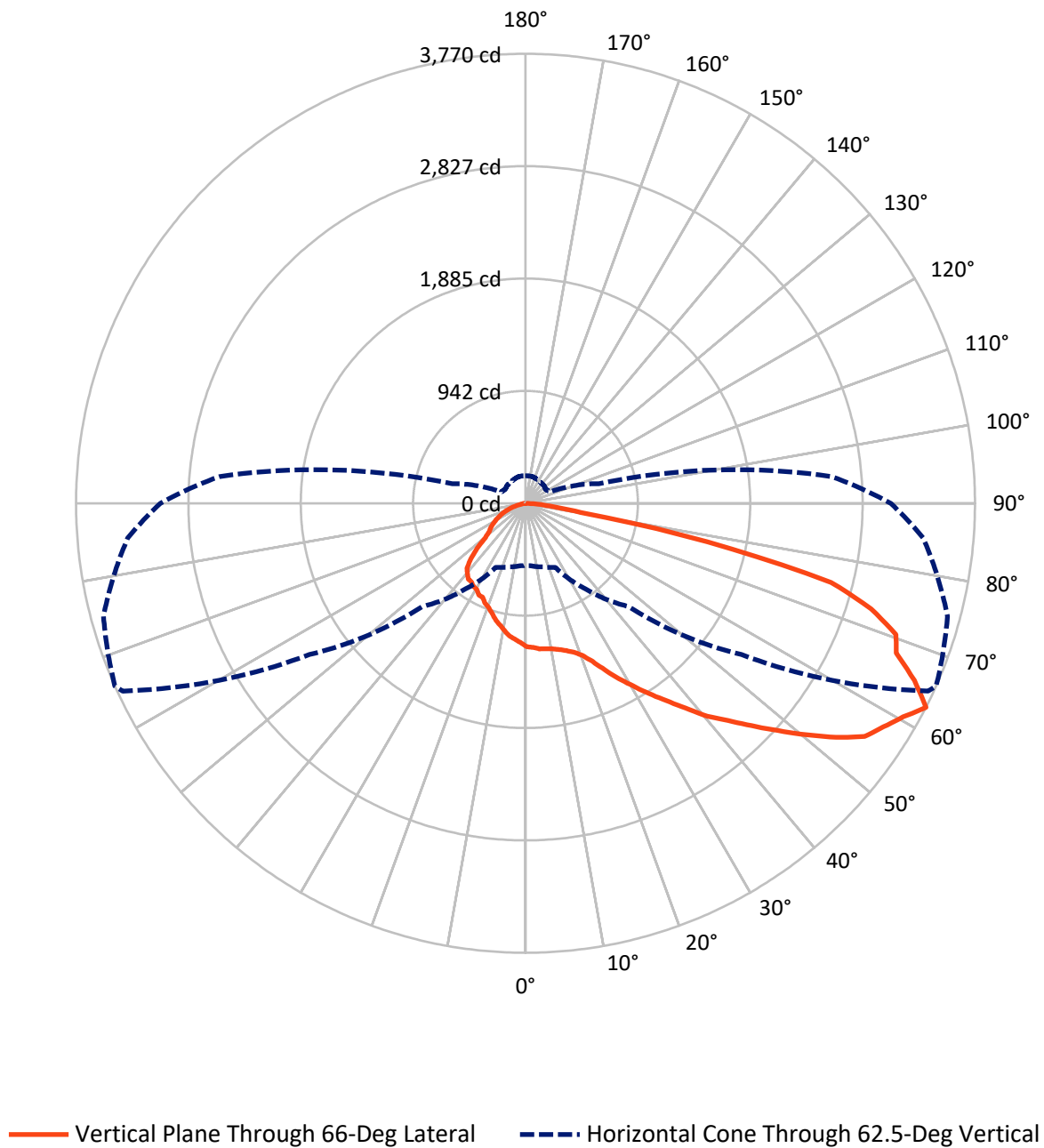
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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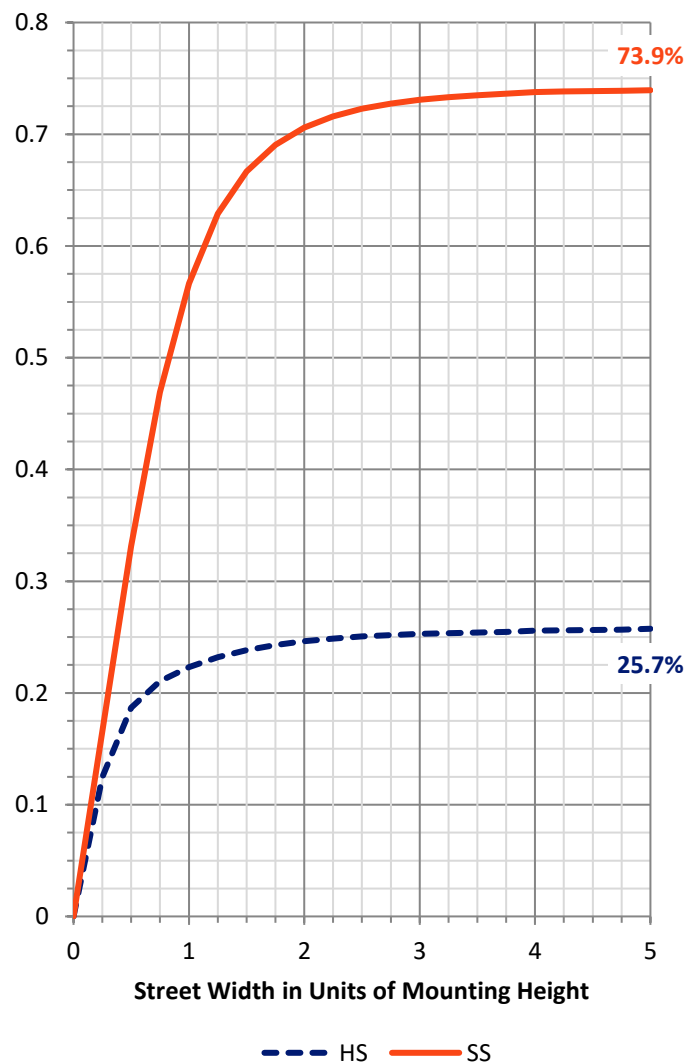
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1487.0	0.0	1487.0
	% Fixture	26.1	0.0	26.1
Street Side	Lumens	4204.0	0.0	4204.0
	% Fixture	73.9	0.0	73.9
Total	Lumens	5691.0	0.0	5691.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.6	2.0
10°-20°	319.6	5.6
20°-30°	518.9	9.1
30°-40°	748.5	13.2
40°-50°	973.6	17.1
50°-60°	1130.8	19.9
60°-70°	1118.8	19.7
70°-80°	693.0	12.2
80°-90°	75.3	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°	5691.0	100.0
0°-180°	5691.0	100.0

Coefficient of Utilization



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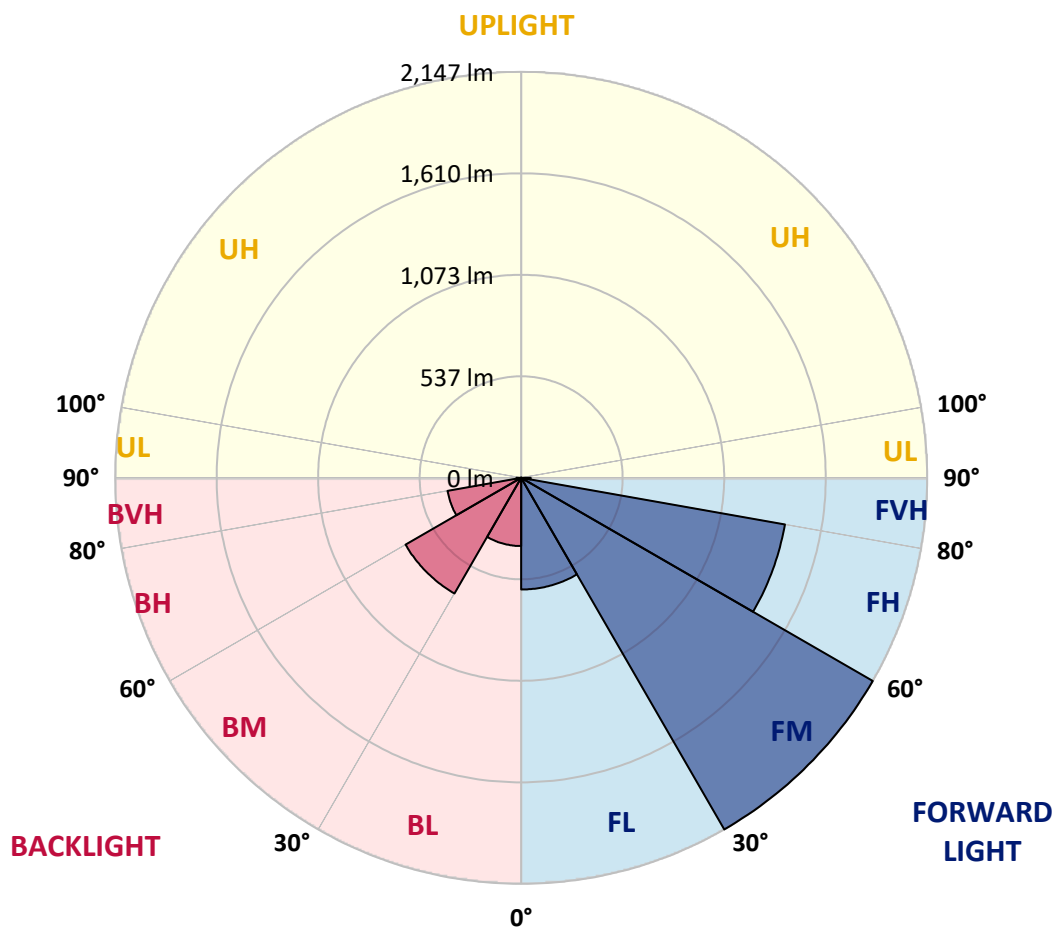
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	590.4	10.4			
FM	(30°-60°)	2146.7	37.7			
FH	(60°-80°)	1416.3	24.9			G1/1800
FVH	(80°-90°)	50.5	0.9			G1/100
BL	(0°-30°)	360.7	6.3	B1/500		
BM	(30°-60°)	706.1	12.4	B1/1000		
BH	(60°-80°)	395.5	6.9	B1/500		G1/500
BVH	(80°-90°)	24.8	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°	1203.8	1203.8	1203.8	1203.8	1203.8	1203.8	1203.8	1203.8	1203.8	1203.8	1203.8
2.5°	1246.8	1246.8	1250.8	1237.1	1229.2	1223.4	1217.5	1211.6	1209.7	1203.8	1196.0
5°	1301.7	1301.7	1303.6	1289.9	1274.3	1256.6	1239.0	1227.3	1227.3	1213.6	1194.0
7.5°	1331.0	1331.0	1331.0	1315.4	1305.6	1293.8	1266.4	1233.1	1231.2	1217.5	1190.1
10°	1331.0	1331.0	1338.8	1315.4	1307.5	1295.8	1280.1	1244.9	1241.0	1209.7	1172.5
12.5°	1354.5	1358.4	1354.5	1329.1	1321.2	1311.4	1289.9	1260.5	1258.6	1217.5	1164.6
15°	1387.8	1389.7	1383.9	1366.2	1358.4	1342.8	1317.3	1286.0	1282.1	1233.1	1170.5
17.5°	1395.6	1397.6	1401.5	1379.9	1379.9	1374.1	1360.4	1323.2	1313.4	1270.3	1188.1
20°	1391.7	1393.7	1399.5	1395.6	1397.6	1393.7	1403.4	1372.1	1360.4	1313.4	1215.5
22.5°	1409.3	1413.2	1425.0	1426.9	1434.8	1442.6	1446.5	1448.5	1440.6	1385.8	1272.3
25°	1415.2	1426.9	1442.6	1464.1	1491.5	1507.2	1528.7	1550.2	1548.3	1493.5	1366.2
27.5°	1387.8	1401.5	1450.4	1483.7	1544.4	1587.4	1636.4	1665.7	1665.7	1620.7	1473.9
30°	1413.2	1419.1	1444.5	1491.5	1562.0	1659.9	1736.2	1773.4	1777.3	1747.9	1579.6
32.5°	1360.4	1374.1	1436.7	1526.8	1634.4	1742.1	1818.4	1898.7	1902.6	1892.8	1734.2
35°	1354.5	1362.3	1397.6	1493.5	1632.5	1818.4	1920.2	2022.0	2031.8	2043.5	1885.0
37.5°	1293.8	1309.5	1378.0	1497.4	1687.3	1869.3	2006.3	2162.9	2178.6	2215.7	2014.1
40°	1229.2	1241.0	1297.7	1426.9	1669.6	1933.9	2090.5	2329.3	2348.8	2380.2	2192.3
42.5°	1141.1	1164.6	1262.5	1397.6	1661.8	1953.5	2184.4	2482.0	2489.8	2544.6	2333.2
45°	1058.9	1066.8	1141.1	1295.8	1593.3	1982.8	2254.9	2654.2	2660.1	2695.3	2450.6
47.5°	992.4	1002.2	1078.5	1209.7	1530.7	1975.0	2325.4	2820.6	2848.0	2887.1	2593.5
50°	786.9	808.4	1010.0	1135.3	1423.0	1961.3	2382.1	3020.2	3051.5	3088.7	2746.2
52.5°	679.2	689.0	790.8	1060.9	1317.3	1902.6	2435.0	3223.8	3261.0	3241.4	2940.0
55°	632.2	638.1	685.1	914.1	1223.4	1791.0	2474.1	3413.7	3452.8	3358.9	3092.7
57.5°	599.0	606.8	634.2	747.7	1117.7	1595.3	2478.0	3525.2	3538.9	3456.7	3155.3
60°	553.9	559.8	599.0	653.8	994.3	1389.7	2407.6	3574.2	3638.8	3560.5	3296.2
62.5°	520.7	526.5	552.0	593.1	874.9	1225.3	2211.8	3726.8	3769.9	3664.2	3349.1
65°	481.5	481.5	507.0	548.1	798.6	1125.5	2110.0	3677.9	3584.0	3634.8	3413.7
67.5°	424.8	428.7	454.1	487.4	669.4	1029.6	1859.5	3450.9	3353.0	3493.9	3243.4
70°	377.8	373.9	401.3	426.7	548.1	908.2	1540.5	3216.0	3296.2	3280.6	3086.8
72.5°	315.1	311.2	334.7	362.1	442.4	753.6	1217.5	2985.0	3032.0	2934.1	2738.4
75°	244.7	221.2	254.5	289.7	348.4	597.0	863.2	2472.2	2648.3	2765.8	2335.1
77.5°	39.1	39.1	48.9	68.5	113.5	303.4	385.6	1358.4	1558.1	2354.7	2047.4
80°	31.3	31.3	35.2	47.0	68.5	166.4	129.2	420.8	469.8	1015.9	1178.3
82.5°	17.6	17.6	25.4	31.3	43.1	50.9	56.8	205.5	229.0	360.2	456.1
85°	9.8	9.8	13.7	15.7	17.6	17.6	17.6	94.0	105.7	191.8	207.5
87.5°	5.9	5.9	5.9	5.9	5.9	3.9	2.0	2.0	2.0	2.0	2.0
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°	1203.8	1203.8	1203.8	1203.8	1203.8	1203.8	1203.8	1203.8	1203.8	1203.8	1203.8
2.5°	1192.0	1186.2	1176.4	1168.6	1162.7	1156.8	1147.0	1141.1	1141.1	1150.9	1152.9
5°	1182.3	1168.6	1150.9	1143.1	1133.3	1123.5	1107.9	1100.0	1098.1	1104.0	1107.9
7.5°	1174.4	1154.9	1137.2	1117.7	1088.3	1062.9	1049.2	1039.4	1043.3	1053.1	1049.2
10°	1150.9	1133.3	1105.9	1076.6	1041.3	1019.8	998.3	986.5	988.5	994.3	988.5
12.5°	1141.1	1117.7	1072.6	1037.4	1006.1	965.0	937.6	920.0	920.0	929.8	929.8
15°	1141.1	1105.9	1045.2	1002.2	953.2	912.1	880.8	865.2	874.9	869.1	865.2
17.5°	1150.9	1096.1	1027.6	955.2	896.5	855.4	818.2	796.7	802.5	806.4	802.5
20°	1162.7	1096.1	1006.1	918.0	849.5	790.8	749.7	726.2	724.2	726.2	730.1
22.5°	1201.8	1121.6	992.4	894.5	790.8	734.0	692.9	651.8	649.8	647.9	651.8
25°	1268.4	1168.6	1002.2	851.5	757.5	673.3	622.4	587.2	575.5	573.5	577.4
27.5°	1378.0	1250.8	1017.8	845.6	696.8	620.5	557.9	518.7	507.0	510.9	508.9
30°	1497.4	1356.5	1062.9	804.5	661.6	542.2	483.5	450.2	438.5	430.6	432.6
32.5°	1585.5	1462.2	1119.6	790.8	593.1	458.0	415.0	395.4	381.7	371.9	369.9
35°	1724.4	1552.2	1170.5	759.5	532.4	403.2	368.0	346.5	338.6	332.8	332.8
37.5°	1857.5	1661.8	1221.4	749.7	454.1	366.0	323.0	309.3	305.4	301.4	301.4
40°	1990.6	1773.4	1250.8	710.5	391.5	321.0	279.9	277.9	283.8	279.9	281.9
42.5°	2155.1	1888.9	1280.1	673.3	346.5	274.0	250.5	266.2	277.9	279.9	279.9
45°	2268.6	1967.2	1291.9	583.3	299.5	238.8	244.7	262.3	276.0	281.9	279.9
47.5°	2372.3	2072.9	1274.3	473.7	260.3	232.9	242.7	254.5	274.0	281.9	281.9
50°	2474.1	2160.9	1258.6	350.4	246.6	234.9	242.7	248.6	270.1	277.9	277.9
52.5°	2617.0	2231.4	1205.7	293.6	234.9	236.8	248.6	246.6	264.2	276.0	279.9
55°	2814.7	2395.8	1104.0	277.9	232.9	234.9	248.6	248.6	260.3	270.1	276.0
57.5°	2902.8	2466.3	931.7	262.3	227.1	232.9	242.7	244.7	258.4	264.2	262.3
60°	3002.6	2554.4	763.4	244.7	217.3	229.0	232.9	240.8	250.5	250.5	248.6
62.5°	3063.3	2575.9	636.1	225.1	205.5	215.3	215.3	223.1	231.0	231.0	231.0
65°	3092.7	2554.4	475.6	207.5	191.8	199.7	197.7	201.6	207.5	197.7	197.7
67.5°	2977.2	2474.1	328.8	184.0	176.2	184.0	182.0	184.0	182.0	174.2	176.2
70°	2779.5	2249.0	227.1	156.6	154.6	168.3	170.3	166.4	154.6	148.8	148.8
72.5°	2530.9	1804.7	156.6	125.3	131.1	148.8	152.7	144.8	133.1	127.2	127.2
75°	2296.0	1560.0	111.6	86.1	88.1	113.5	121.4	121.4	117.4	156.6	166.4
77.5°	1597.2	1010.0	64.6	45.0	43.1	64.6	74.4	76.3	146.8	158.5	154.6
80°	947.4	475.6	47.0	27.4	27.4	37.2	50.9	99.8	168.3	113.5	101.8
82.5°	362.1	182.0	29.4	17.6	15.7	19.6	29.4	154.6	97.9	64.6	58.7
85°	131.1	45.0	13.7	9.8	9.8	11.7	17.6	131.1	68.5	48.9	47.0
87.5°	2.0	2.0	3.9	3.9	3.9	2.0	2.0	3.9	3.9	3.9	2.0
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)