

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: P691410

Luminaire Tested: **CRTK2-C016-5TLD-U-T2-8027-U0**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691410
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-T2-8027-U0
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K LED WITH TYPE II OPTIC AND U0 SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5251 lumens
Efficiency: N/A
Efficacy: 122.7 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

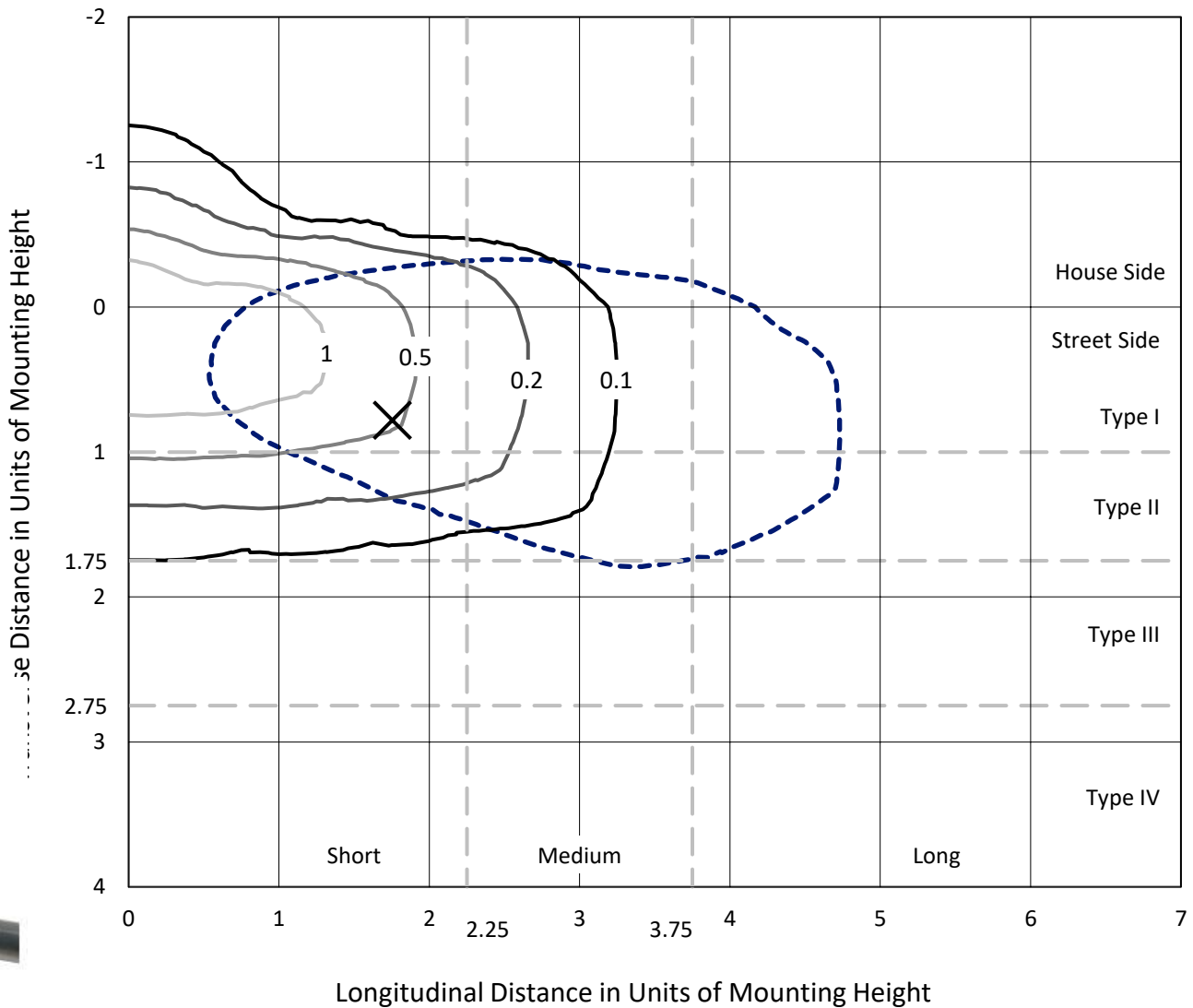


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

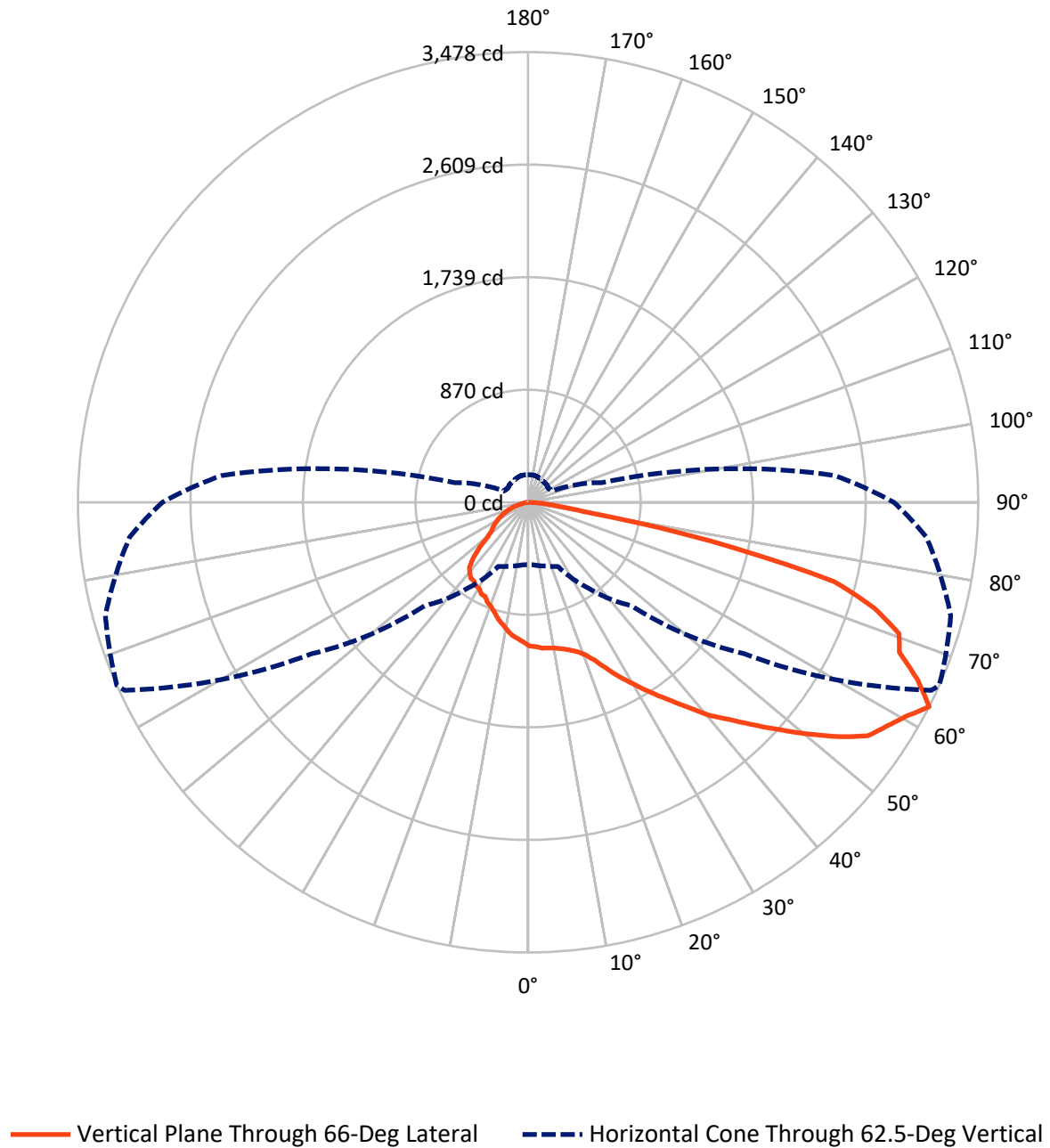


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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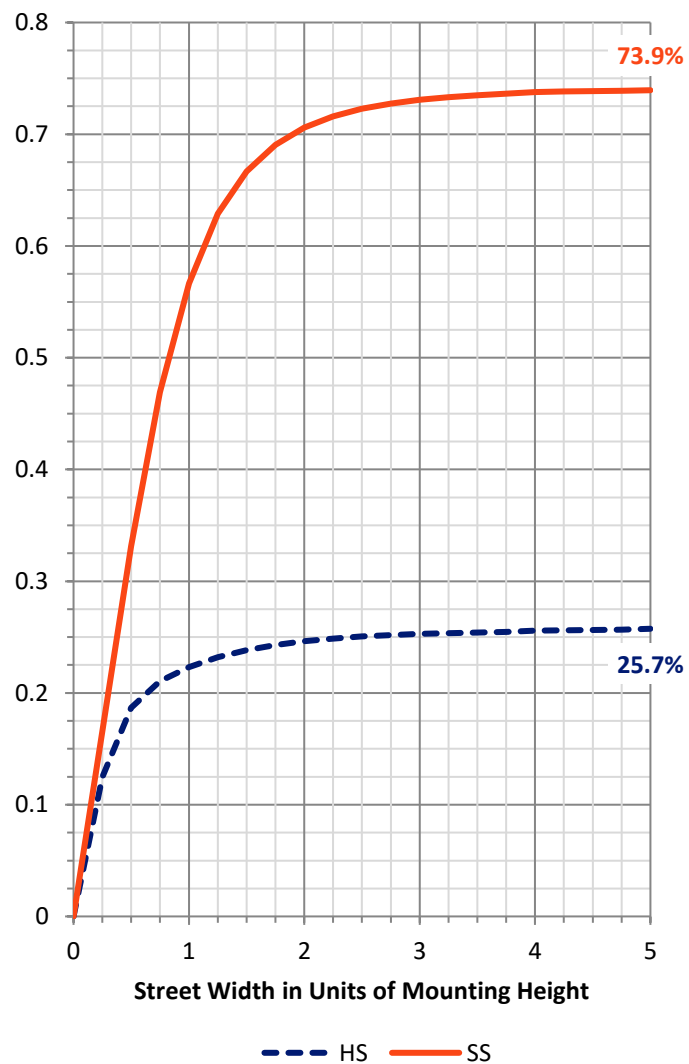
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1372.1	0.0	1372.1
	% Fixture	26.1	0.0	26.1
Street Side	Lumens	3878.9	0.0	3878.9
	% Fixture	73.9	0.0	73.9
Total	Lumens	5251.0	0.0	5251.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.9	2.0
10°-20°	294.9	5.6
20°-30°	478.8	9.1
30°-40°	690.6	13.2
40°-50°	898.3	17.1
50°-60°	1043.4	19.9
60°-70°	1032.3	19.7
70°-80°	639.4	12.2
80°-90°	69.4	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°	5251.0	100.0
0°-180°	5251.0	100.0

Coefficient of Utilization



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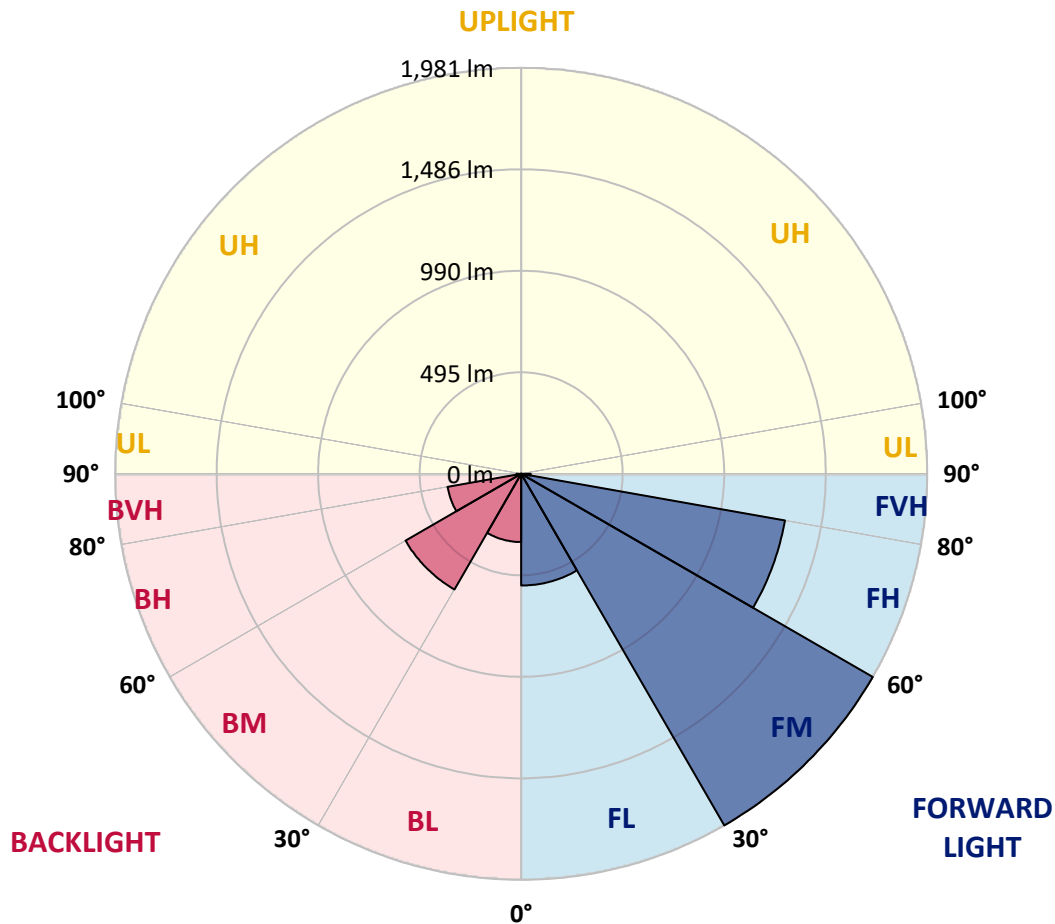
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	544.8	10.4			
FM	(30°-60°)	1980.8	37.7			
FH	(60°-80°)	1306.8	24.9			G1/1800
FVH	(80°-90°)	46.6	0.9			G1/100
BL	(0°-30°)	332.8	6.3	B1/500		
BM	(30°-60°)	651.5	12.4	B1/1000		
BH	(60°-80°)	364.9	6.9	B1/500		G1/500
BVH	(80°-90°)	22.9	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°	1110.7	1110.7	1110.7	1110.7	1110.7	1110.7	1110.7	1110.7	1110.7	1110.7	1110.7
2.5°	1150.4	1150.4	1154.1	1141.4	1134.2	1128.8	1123.4	1117.9	1116.1	1110.7	1103.5
5°	1201.0	1201.0	1202.8	1190.2	1175.7	1159.5	1143.2	1132.4	1132.4	1119.7	1101.7
7.5°	1228.1	1228.1	1228.1	1213.7	1204.6	1193.8	1168.5	1137.8	1136.0	1123.4	1098.1
10°	1228.1	1228.1	1235.3	1213.7	1206.4	1195.6	1181.1	1148.6	1145.0	1116.1	1081.8
12.5°	1249.8	1253.4	1249.8	1226.3	1219.1	1210.0	1190.2	1163.1	1161.3	1123.4	1074.6
15°	1280.5	1282.3	1276.9	1260.6	1253.4	1238.9	1215.5	1186.6	1183.0	1137.8	1080.0
17.5°	1287.7	1289.5	1293.1	1273.3	1273.3	1267.8	1255.2	1220.9	1211.9	1172.1	1096.3
20°	1284.1	1285.9	1291.3	1287.7	1289.5	1285.9	1294.9	1266.0	1255.2	1211.9	1121.6
22.5°	1300.3	1304.0	1314.8	1316.6	1323.8	1331.1	1334.7	1336.5	1329.2	1278.7	1173.9
25°	1305.8	1316.6	1331.1	1350.9	1376.2	1390.7	1410.5	1430.4	1428.6	1378.0	1260.6
27.5°	1280.5	1293.1	1338.3	1369.0	1425.0	1464.7	1509.8	1536.9	1536.9	1495.4	1359.9
30°	1304.0	1309.4	1332.9	1376.2	1441.2	1531.5	1602.0	1636.3	1639.9	1612.8	1457.5
32.5°	1255.2	1267.8	1325.6	1408.7	1508.0	1607.4	1677.8	1751.9	1755.5	1746.4	1600.2
35°	1249.8	1257.0	1289.5	1378.0	1506.2	1677.8	1771.7	1865.6	1874.7	1885.5	1739.2
37.5°	1193.8	1208.2	1271.5	1381.6	1556.8	1724.8	1851.2	1995.7	2010.1	2044.4	1858.4
40°	1134.2	1145.0	1197.4	1316.6	1540.6	1784.4	1928.9	2149.2	2167.2	2196.1	2022.8
42.5°	1052.9	1074.6	1164.9	1289.5	1533.3	1802.4	2015.5	2290.1	2297.3	2347.9	2152.8
45°	977.1	984.3	1052.9	1195.6	1470.1	1829.5	2080.6	2449.0	2454.4	2486.9	2261.2
47.5°	915.7	924.7	995.1	1116.1	1412.3	1822.3	2145.6	2602.5	2627.8	2663.9	2393.0
50°	726.0	745.9	931.9	1047.5	1313.0	1809.7	2198.0	2786.7	2815.6	2849.9	2533.9
52.5°	626.7	635.7	729.6	978.9	1215.5	1755.5	2246.7	2974.5	3008.9	2990.8	2712.7
55°	583.4	588.8	632.1	843.4	1128.8	1652.5	2282.8	3149.7	3185.9	3099.2	2853.5
57.5°	552.6	559.9	585.2	689.9	1031.2	1471.9	2286.4	3252.7	3265.3	3189.5	2911.3
60°	511.1	516.5	552.6	603.2	917.5	1282.3	2221.4	3297.8	3357.4	3285.2	3041.4
62.5°	480.4	485.8	509.3	547.2	807.3	1130.6	2040.8	3438.7	3478.4	3380.9	3090.1
65°	444.3	444.3	467.8	505.7	736.9	1038.5	1946.9	3393.5	3306.9	3353.8	3149.7
67.5°	391.9	395.5	419.0	449.7	617.7	950.0	1715.7	3184.0	3093.7	3223.8	2992.6
70°	348.6	345.0	370.2	393.7	505.7	838.0	1421.4	2967.3	3041.4	3026.9	2848.1
72.5°	290.8	287.2	308.8	334.1	408.2	695.3	1123.4	2754.2	2797.6	2707.3	2526.6
75°	225.8	204.1	234.8	267.3	321.5	550.8	796.5	2281.0	2443.6	2551.9	2154.6
77.5°	36.1	36.1	45.2	63.2	104.8	279.9	355.8	1253.4	1437.6	2172.7	1889.1
80°	28.9	28.9	32.5	43.3	63.2	153.5	119.2	388.3	433.4	937.3	1087.2
82.5°	16.3	16.3	23.5	28.9	39.7	47.0	52.4	189.6	211.3	332.3	420.8
85°	9.0	9.0	12.6	14.4	16.3	16.3	16.3	86.7	97.5	177.0	191.4
87.5°	5.4	5.4	5.4	5.4	5.4	3.6	1.8	1.8	1.8	1.8	1.8
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°	1110.7	1110.7	1110.7	1110.7	1110.7	1110.7	1110.7	1110.7	1110.7	1110.7	1110.7
2.5°	1099.9	1094.5	1085.4	1078.2	1072.8	1067.4	1058.3	1052.9	1052.9	1062.0	1063.8
5°	1090.8	1078.2	1062.0	1054.7	1045.7	1036.7	1022.2	1015.0	1013.2	1018.6	1022.2
7.5°	1083.6	1065.6	1049.3	1031.2	1004.2	980.7	968.0	959.0	962.6	971.6	968.0
10°	1062.0	1045.7	1020.4	993.3	960.8	940.9	921.1	910.2	912.1	917.5	912.1
12.5°	1052.9	1031.2	989.7	957.2	928.3	890.4	865.1	848.8	848.8	857.9	857.9
15°	1052.9	1020.4	964.4	924.7	879.5	841.6	812.7	798.3	807.3	801.9	798.3
17.5°	1062.0	1011.4	948.2	881.3	827.2	789.2	754.9	735.1	740.5	744.1	740.5
20°	1072.8	1011.4	928.3	847.0	783.8	729.6	691.7	670.0	668.2	670.0	673.7
22.5°	1108.9	1034.9	915.7	825.4	729.6	677.3	639.3	601.4	599.6	597.8	601.4
25°	1170.3	1078.2	924.7	785.6	698.9	621.3	574.3	541.8	531.0	529.2	532.8
27.5°	1271.5	1154.1	939.1	780.2	643.0	572.5	514.7	478.6	467.8	471.4	469.6
30°	1381.6	1251.6	980.7	742.3	610.4	500.3	446.1	415.4	404.6	397.3	399.1
32.5°	1462.9	1349.1	1033.1	729.6	547.2	422.6	382.9	364.8	352.2	343.1	341.3
35°	1591.1	1432.2	1080.0	700.7	491.2	372.0	339.5	319.7	312.4	307.0	307.0
37.5°	1713.9	1533.3	1127.0	691.7	419.0	337.7	298.0	285.4	281.7	278.1	278.1
40°	1836.7	1636.3	1154.1	655.6	361.2	296.2	258.3	256.5	261.9	258.3	260.1
42.5°	1988.4	1742.8	1181.1	621.3	319.7	252.8	231.2	245.6	256.5	258.3	258.3
45°	2093.2	1815.1	1192.0	538.2	276.3	220.3	225.8	242.0	254.7	260.1	258.3
47.5°	2188.9	1912.6	1175.7	437.1	240.2	214.9	223.9	234.8	252.8	260.1	260.1
50°	2282.8	1993.9	1161.3	323.3	227.6	216.7	223.9	229.4	249.2	256.5	256.5
52.5°	2414.7	2058.9	1112.5	270.9	216.7	218.5	229.4	227.6	243.8	254.7	258.3
55°	2597.1	2210.6	1018.6	256.5	214.9	216.7	229.4	229.4	240.2	249.2	254.7
57.5°	2678.4	2275.6	859.7	242.0	209.5	214.9	223.9	225.8	238.4	243.8	242.0
60°	2770.5	2356.9	704.4	225.8	200.5	211.3	214.9	222.1	231.2	231.2	229.4
62.5°	2826.5	2376.7	587.0	207.7	189.6	198.7	198.7	205.9	213.1	213.1	213.1
65°	2853.5	2356.9	438.9	191.4	177.0	184.2	182.4	186.0	191.4	182.4	182.4
67.5°	2747.0	2282.8	303.4	169.8	162.5	169.8	168.0	169.8	168.0	160.7	162.5
70°	2564.6	2075.1	209.5	144.5	142.7	155.3	157.1	153.5	142.7	137.3	137.3
72.5°	2335.2	1665.2	144.5	115.6	121.0	137.3	140.9	133.6	122.8	117.4	117.4
75°	2118.5	1439.4	102.9	79.5	81.3	104.8	112.0	112.0	108.4	144.5	153.5
77.5°	1473.7	931.9	59.6	41.5	39.7	59.6	68.6	70.4	135.5	146.3	142.7
80°	874.1	438.9	43.3	25.3	25.3	34.3	47.0	92.1	155.3	104.8	93.9
82.5°	334.1	168.0	27.1	16.3	14.4	18.1	27.1	142.7	90.3	59.6	54.2
85°	121.0	41.5	12.6	9.0	9.0	10.8	16.3	121.0	63.2	45.2	43.3
87.5°	1.8	1.8	3.6	3.6	3.6	1.8	1.8	3.6	3.6	3.6	1.8
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)