

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: P691686

Luminaire Tested: **CRTK2-C018-D-U-T2-8027-U0**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691686
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-C018-D-U-T2-8027-U0
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K LED WITH TYPE II OPTIC AND U0 SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5831 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Circular (Dia: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

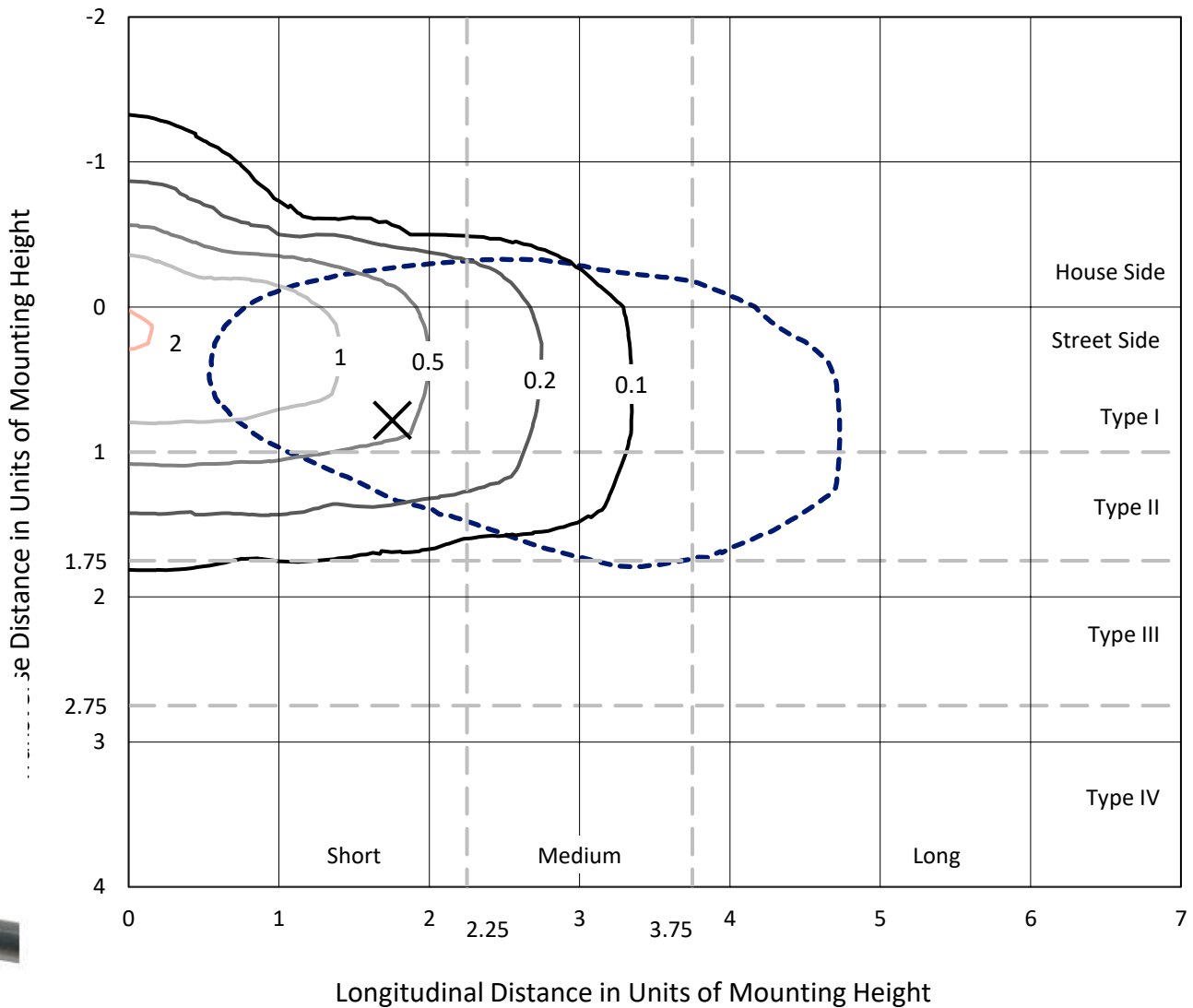
Input Watts (W): 50.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

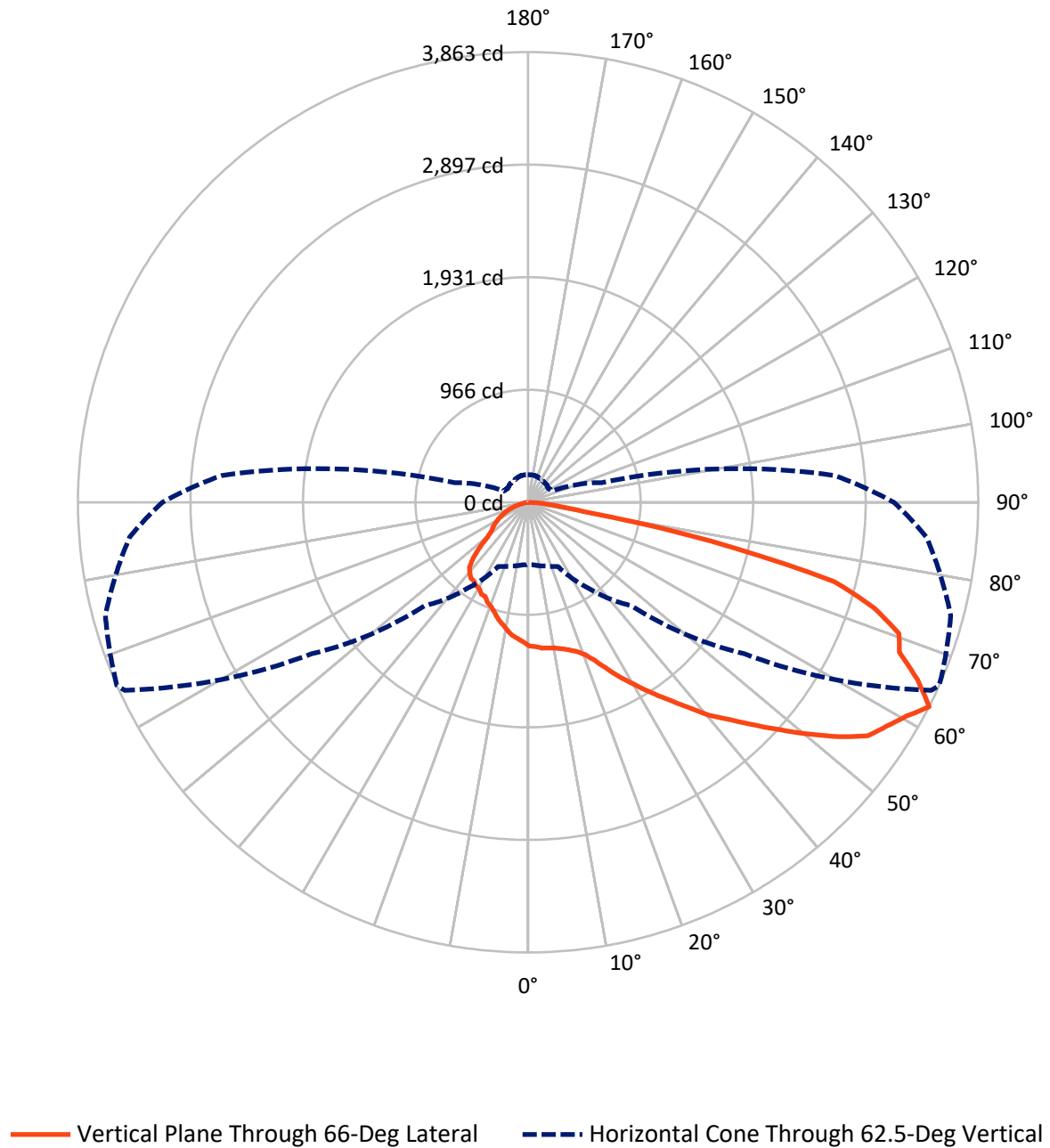
✕ Max cd
 - - - 1/2 Max cd



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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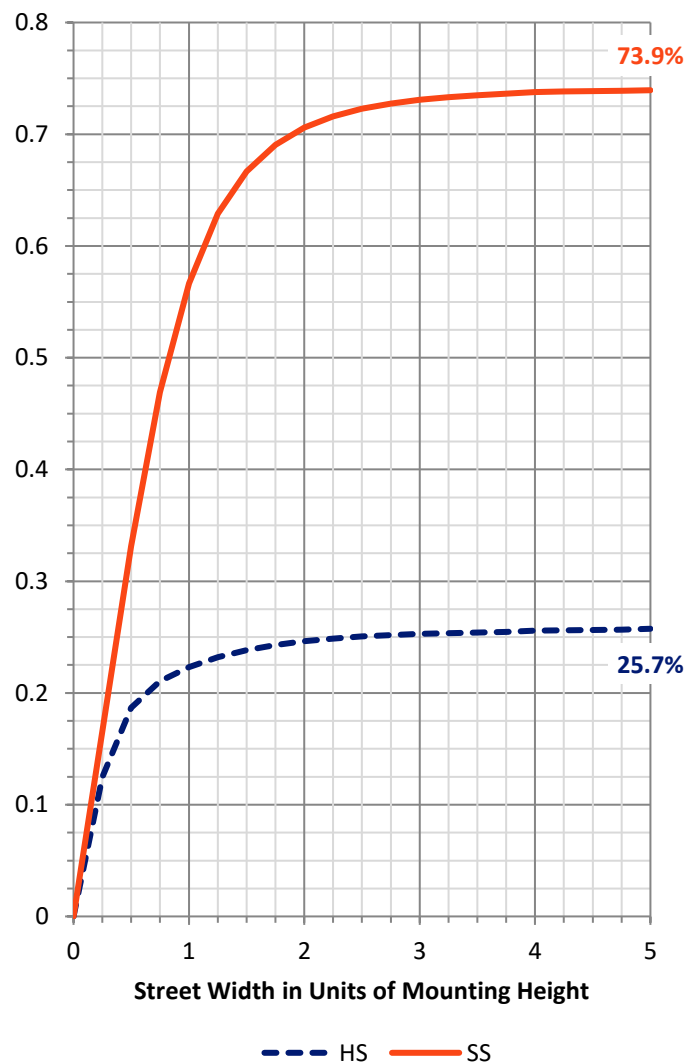
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1523.6	0.0	1523.6
	% Fixture	26.1	0.0	26.1
Street Side	Lumens	4307.4	0.0	4307.4
	% Fixture	73.9	0.0	73.9
Total	Lumens	5831.0	0.0	5831.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.4	2.0
10°-20°	327.5	5.6
20°-30°	531.7	9.1
30°-40°	766.9	13.2
40°-50°	997.5	17.1
50°-60°	1158.6	19.9
60°-70°	1146.3	19.7
70°-80°	710.0	12.2
80°-90°	77.1	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°	5831.0	100.0
0°-180°	5831.0	100.0

Coefficient of Utilization



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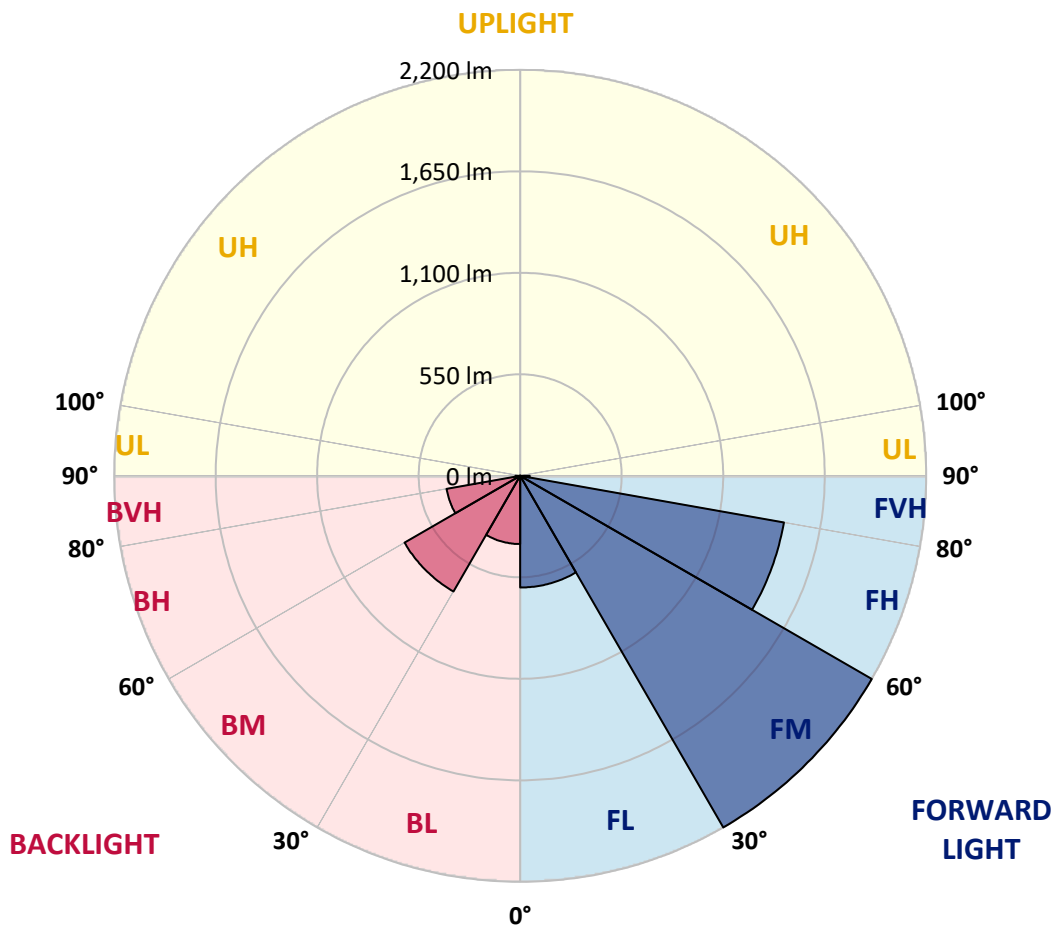
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	605.0	10.4			
FM	(30°-60°)	2199.6	37.7			
FH	(60°-80°)	1451.2	24.9			G1/1800
FVH	(80°-90°)	51.7	0.9			G1/100
BL	(0°-30°)	369.6	6.3	B1/500		
BM	(30°-60°)	723.5	12.4	B1/1000		
BH	(60°-80°)	405.2	6.9	B1/500		G1/500
BVH	(80°-90°)	25.4	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°	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4
2.5°	1277.5	1277.5	1281.5	1267.5	1259.5	1253.5	1247.4	1241.4	1239.4	1233.4	1225.4
5°	1333.7	1333.7	1335.7	1321.6	1305.6	1287.5	1269.5	1257.5	1257.5	1243.4	1223.4
7.5°	1363.8	1363.8	1363.8	1347.7	1337.7	1325.7	1297.6	1263.5	1261.5	1247.4	1219.4
10°	1363.8	1363.8	1371.8	1347.7	1339.7	1327.7	1311.6	1275.5	1271.5	1239.4	1201.3
12.5°	1387.8	1391.8	1387.8	1361.8	1353.7	1343.7	1321.6	1291.6	1289.6	1247.4	1193.3
15°	1421.9	1423.9	1417.9	1399.9	1391.8	1375.8	1349.7	1317.6	1313.6	1263.5	1199.3
17.5°	1429.9	1431.9	1436.0	1413.9	1413.9	1407.9	1393.8	1355.7	1345.7	1301.6	1217.4
20°	1425.9	1427.9	1434.0	1429.9	1431.9	1427.9	1438.0	1405.9	1393.8	1345.7	1245.4
22.5°	1444.0	1448.0	1460.0	1462.0	1470.1	1478.1	1482.1	1484.1	1476.1	1419.9	1303.6
25°	1450.0	1462.0	1478.1	1500.1	1528.2	1544.3	1566.3	1588.4	1586.4	1530.2	1399.9
27.5°	1421.9	1436.0	1486.1	1520.2	1582.4	1626.5	1676.6	1706.7	1706.7	1660.6	1510.2
30°	1448.0	1454.0	1480.1	1528.2	1600.4	1700.7	1778.9	1817.0	1821.0	1790.9	1618.5
32.5°	1393.8	1407.9	1472.1	1564.3	1674.6	1784.9	1863.1	1945.4	1949.4	1939.3	1776.9
35°	1387.8	1395.8	1431.9	1530.2	1672.6	1863.1	1967.4	2071.7	2081.7	2093.8	1931.3
37.5°	1325.7	1341.7	1411.9	1534.2	1728.8	1915.3	2055.7	2216.1	2232.2	2270.3	2063.7
40°	1259.5	1271.5	1329.7	1462.0	1710.7	1981.5	2141.9	2386.6	2406.6	2438.7	2246.2
42.5°	1169.2	1193.3	1293.6	1431.9	1702.7	2001.5	2238.2	2543.0	2551.0	2607.2	2390.6
45°	1085.0	1093.0	1169.2	1327.7	1632.5	2031.6	2310.4	2719.5	2725.5	2761.6	2510.9
47.5°	1016.8	1026.8	1105.0	1239.4	1568.3	2023.6	2382.6	2890.0	2918.0	2958.2	2657.3
50°	806.2	828.3	1034.9	1163.2	1458.0	2009.5	2440.7	3094.5	3126.6	3164.7	2813.8
52.5°	695.9	705.9	810.2	1087.0	1349.7	1949.4	2494.9	3303.1	3341.2	3321.2	3012.3
55°	647.8	653.8	701.9	936.6	1253.5	1835.1	2535.0	3497.6	3537.7	3441.5	3168.7
57.5°	613.7	621.7	649.8	766.1	1145.2	1634.5	2539.0	3612.0	3626.0	3541.8	3232.9
60°	567.6	573.6	613.7	669.8	1018.8	1423.9	2466.8	3662.1	3728.3	3648.1	3377.3
62.5°	533.5	539.5	565.6	607.7	896.5	1255.5	2266.2	3818.5	3862.6	3754.3	3431.5
65°	493.4	493.4	519.4	561.5	818.3	1153.2	2162.0	3768.4	3672.1	3724.3	3497.6
67.5°	435.2	439.2	465.3	499.4	685.9	1054.9	1905.2	3535.7	3435.5	3579.9	3323.2
70°	387.1	383.1	411.1	437.2	561.5	930.6	1578.3	3295.1	3377.3	3361.3	3162.7
72.5°	322.9	318.9	342.9	371.0	453.2	772.1	1247.4	3058.4	3106.6	3006.3	2805.7
75°	250.7	226.6	260.7	296.8	357.0	611.7	884.4	2533.0	2713.5	2833.8	2392.6
77.5°	40.1	40.1	50.1	70.2	116.3	310.9	395.1	1391.8	1596.4	2412.6	2097.8
80°	32.1	32.1	36.1	48.1	70.2	170.5	132.4	431.2	481.3	1040.9	1207.3
82.5°	18.0	18.0	26.1	32.1	44.1	52.1	58.2	210.6	234.6	369.0	467.3
85°	10.0	10.0	14.0	16.0	18.0	18.0	18.0	96.3	108.3	196.5	212.6
87.5°	6.0	6.0	6.0	6.0	6.0	4.0	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°	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4	1233.4
2.5°	1221.4	1215.3	1205.3	1197.3	1191.3	1185.3	1175.2	1169.2	1169.2	1179.2	1181.3
5°	1211.3	1197.3	1179.2	1171.2	1161.2	1151.2	1135.1	1127.1	1125.1	1131.1	1135.1
7.5°	1203.3	1183.3	1165.2	1145.2	1115.1	1089.0	1075.0	1064.9	1068.9	1079.0	1075.0
10°	1179.2	1161.2	1133.1	1103.0	1066.9	1044.9	1022.8	1010.8	1012.8	1018.8	1012.8
12.5°	1169.2	1145.2	1099.0	1062.9	1030.8	988.7	960.6	942.6	942.6	952.6	952.6
15°	1169.2	1133.1	1071.0	1026.8	976.7	934.6	902.5	886.4	896.5	890.5	886.4
17.5°	1179.2	1123.1	1052.9	978.7	918.5	876.4	838.3	816.2	822.3	826.3	822.3
20°	1191.3	1123.1	1030.8	940.6	870.4	810.2	768.1	744.1	742.0	744.1	748.1
22.5°	1231.4	1149.2	1016.8	916.5	810.2	752.1	710.0	667.8	665.8	663.8	667.8
25°	1299.6	1197.3	1026.8	872.4	776.1	689.9	637.8	601.7	589.6	587.6	591.6
27.5°	1411.9	1281.5	1042.9	866.4	714.0	635.8	571.6	531.5	519.4	523.4	521.4
30°	1534.2	1389.8	1089.0	824.3	677.9	555.5	495.4	461.3	449.2	441.2	443.2
32.5°	1624.5	1498.1	1147.2	810.2	607.7	469.3	425.2	405.1	391.1	381.0	379.0
35°	1766.9	1590.4	1199.3	778.1	545.5	413.1	377.0	355.0	347.0	340.9	340.9
37.5°	1903.2	1702.7	1251.4	768.1	465.3	375.0	330.9	316.9	312.9	308.9	308.9
40°	2039.6	1817.0	1281.5	728.0	401.1	328.9	286.8	284.8	290.8	286.8	288.8
42.5°	2208.1	1935.3	1311.6	689.9	355.0	280.8	256.7	272.8	284.8	286.8	286.8
45°	2324.4	2015.6	1323.6	597.6	306.8	244.7	250.7	268.7	282.8	288.8	286.8
47.5°	2430.7	2123.9	1305.6	485.3	266.7	238.7	248.7	260.7	280.8	288.8	288.8
50°	2535.0	2214.1	1289.6	359.0	252.7	240.7	248.7	254.7	276.8	284.8	284.8
52.5°	2681.4	2286.3	1235.4	300.8	240.7	242.7	254.7	252.7	270.7	282.8	286.8
55°	2883.9	2454.8	1131.1	284.8	238.7	240.7	254.7	254.7	266.7	276.8	282.8
57.5°	2974.2	2527.0	954.6	268.7	232.6	238.7	248.7	250.7	264.7	270.7	268.7
60°	3076.5	2617.2	782.2	250.7	222.6	234.6	238.7	246.7	256.7	256.7	254.7
62.5°	3138.6	2639.3	651.8	230.6	210.6	220.6	220.6	228.6	236.7	236.7	236.7
65°	3168.7	2617.2	487.3	212.6	196.5	204.6	202.6	206.6	212.6	202.6	202.6
67.5°	3050.4	2535.0	336.9	188.5	180.5	188.5	186.5	188.5	186.5	178.5	180.5
70°	2847.8	2304.3	232.6	160.4	158.4	172.5	174.5	170.5	158.4	152.4	152.4
72.5°	2593.1	1849.1	160.4	128.4	134.4	152.4	156.4	148.4	136.4	130.4	130.4
75°	2352.5	1598.4	114.3	88.2	90.2	116.3	124.3	124.3	120.3	160.4	170.5
77.5°	1636.5	1034.9	66.2	46.1	44.1	66.2	76.2	78.2	150.4	162.4	158.4
80°	970.7	487.3	48.1	28.1	28.1	38.1	52.1	102.3	172.5	116.3	104.3
82.5°	371.0	186.5	30.1	18.0	16.0	20.1	30.1	158.4	100.3	66.2	60.2
85°	134.4	46.1	14.0	10.0	10.0	12.0	18.0	134.4	70.2	50.1	48.1
87.5°	2.0	2.0	4.0	4.0	4.0	2.0	2.0	4.0	4.0	4.0	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

(END OF REPORT)