

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: P691701

Luminaire Tested: **CRTK2-C018-D-U-T3-7040-U0-HSS-CRTK2**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691701
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-12)
Test Lab: INNOVATION CENTER
Issue Date: 6/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CRTK2-C018-D-U-T3-7040-U0-HSS-CRTK2
Description: CARETAKER AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K LED WITH TYPE III OPTIC AND U0 SHIELD WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6233 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Circular (Dia: 0.33' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

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



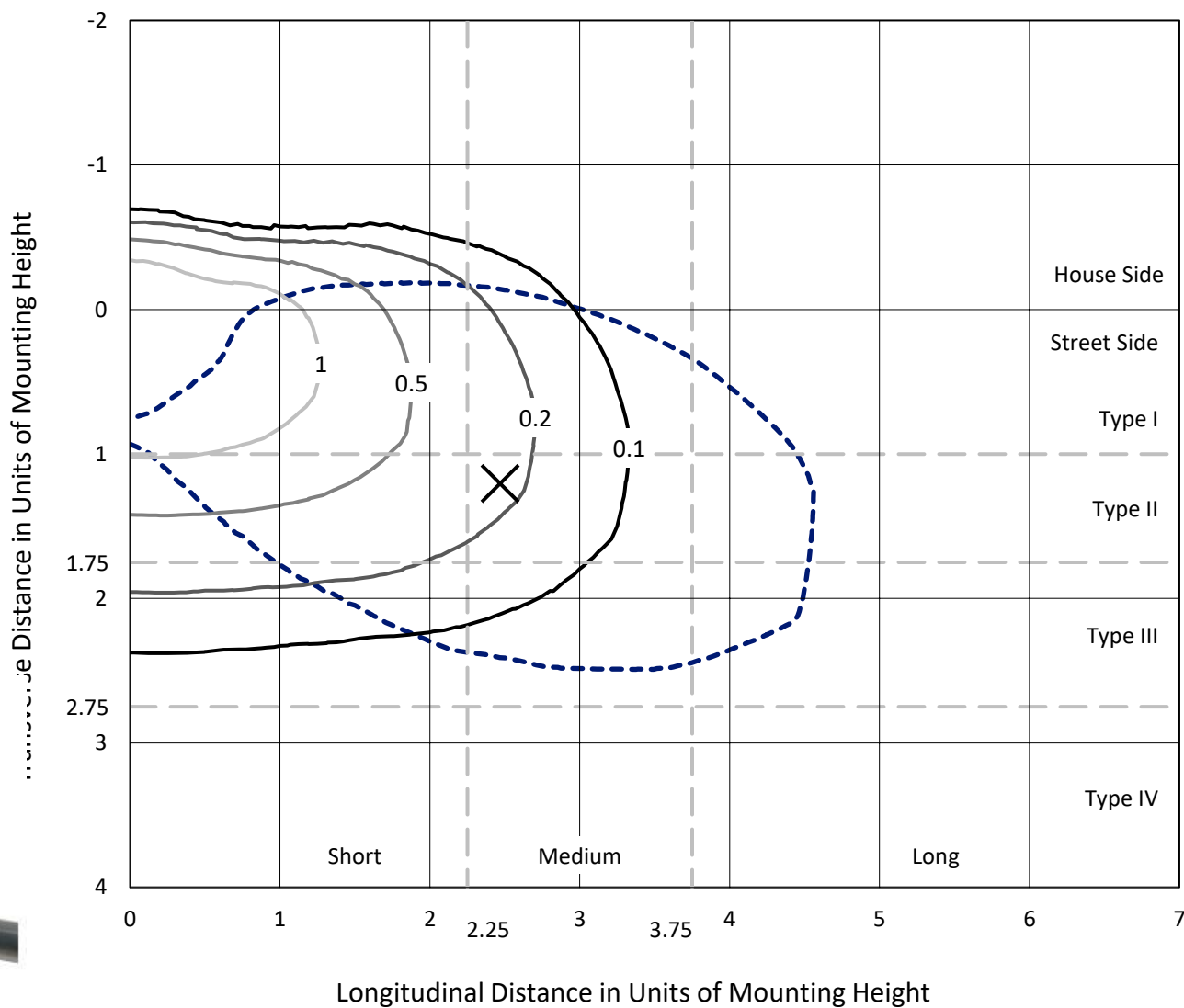
REPORT NUMBER: P691701

CATALOG NUMBER: CRTK2-C018-D-U-T3-7040-U0-HSS-CRTK2

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

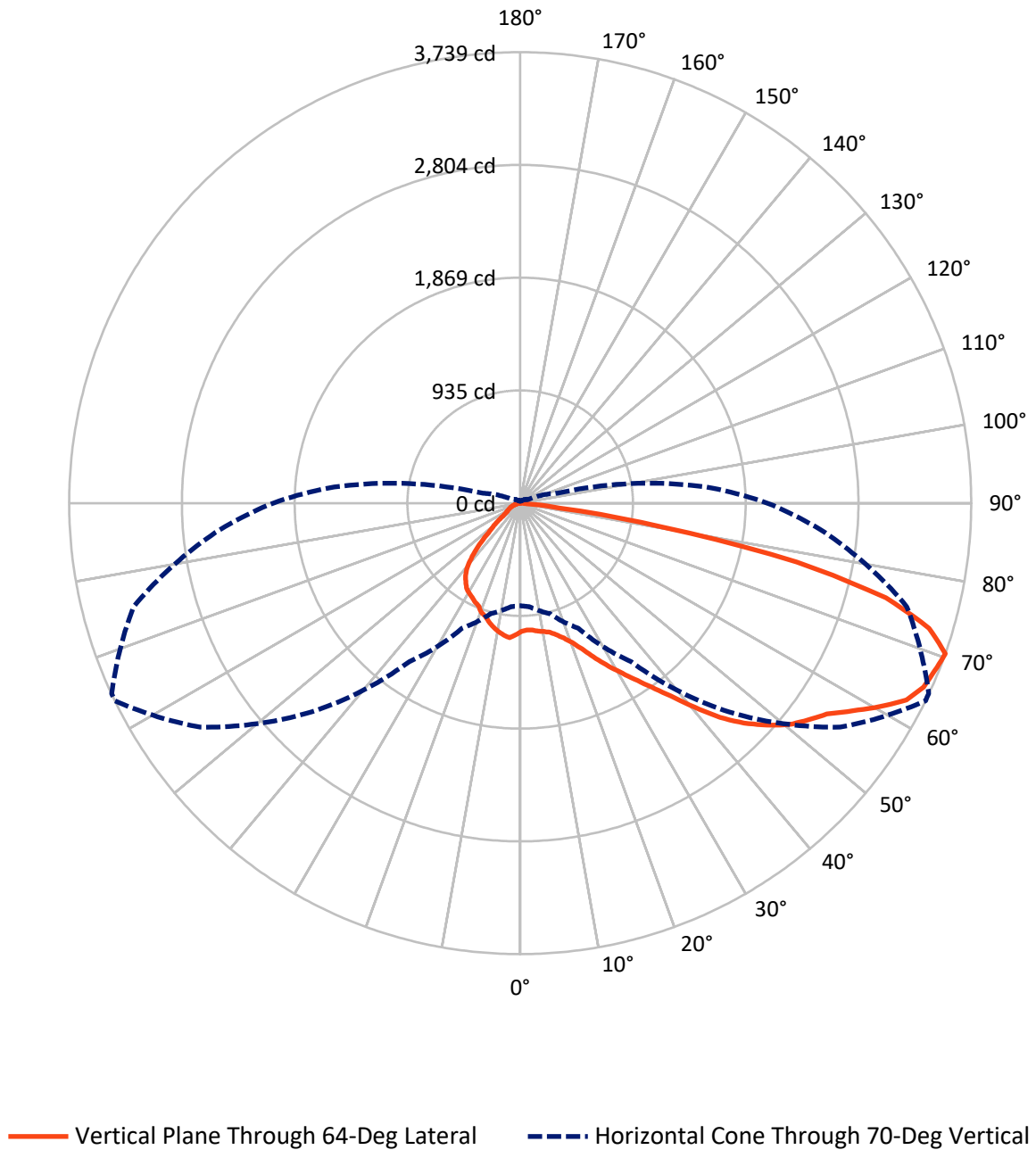


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P691701

CATALOG NUMBER: CRTK2-C018-D-U-T3-7040-U0-HSS-CRTK2

Luminous Intensity Polar Plot



REPORT NUMBER: P691701

CATALOG NUMBER: CRTK2-C018-D-U-T3-7040-U0-HSS-CRTK2

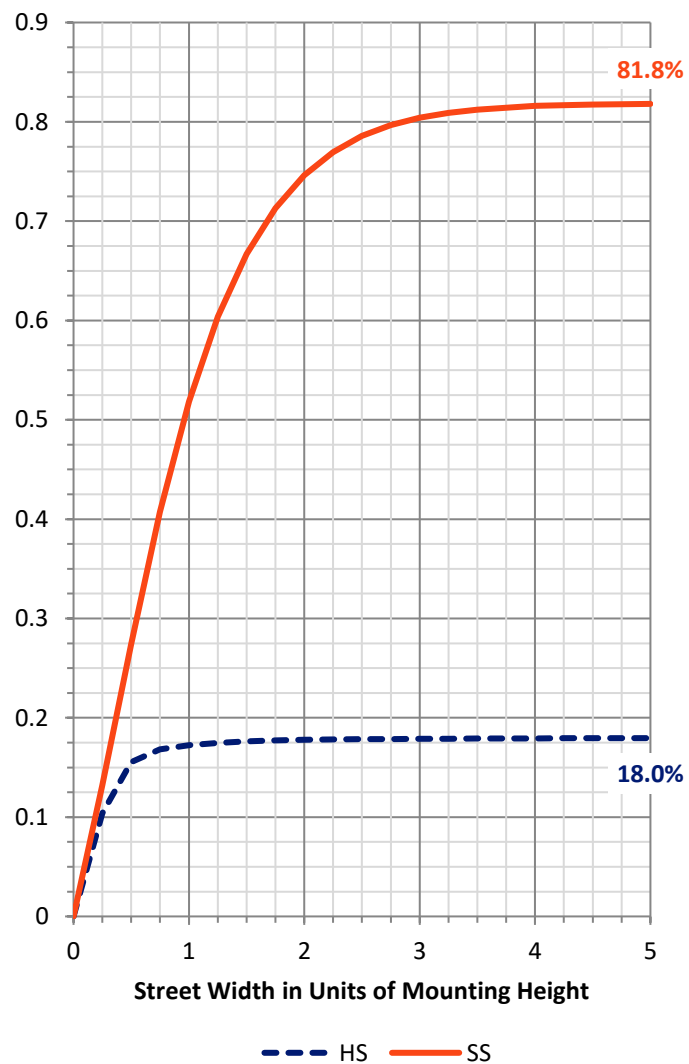
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1132.8	0.0	1132.8
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	5100.2	0.0	5100.2
	% Fixture	81.8	0.0	81.8
Total	Lumens	6233.0	0.0	6233.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.7	1.7
10°-20°	306.8	4.9
20°-30°	517.0	8.3
30°-40°	760.8	12.2
40°-50°	1043.4	16.7
50°-60°	1269.5	20.4
60°-70°	1347.9	21.6
70°-80°	826.2	13.3
80°-90°	57.7	0.9
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°	6233.0	100.0
0°-180°	6233.0	100.0

Coefficient of Utilization



REPORT NUMBER: P691701

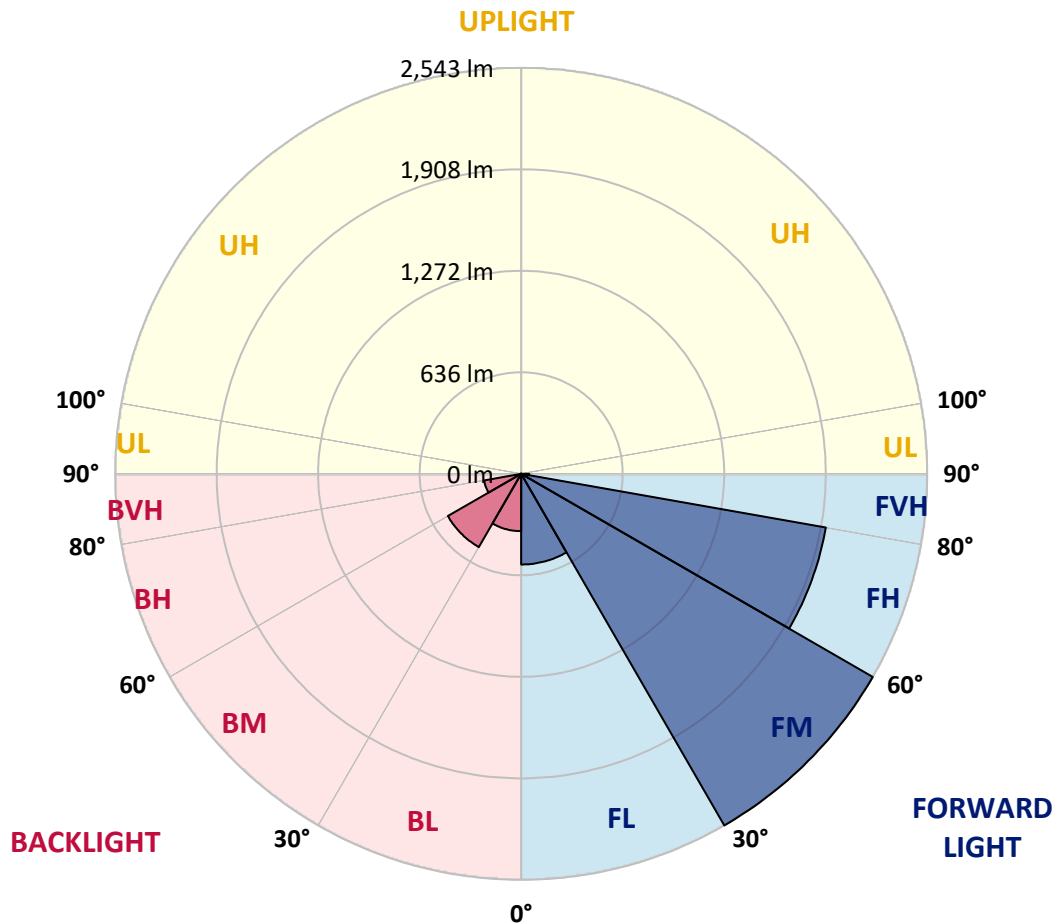
CATALOG NUMBER: CRTK2-C018-D-U-T3-7040-U0-HSS-CRTK2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	568.2	9.1			
FM	(30°-60°)	2543.5	40.8			
FH	(60°-80°)	1938.3	31.1			G2/5000
FVH	(80°-90°)	50.3	0.8			G1/100
BL	(0°-30°)	359.4	5.8	B1/500		
BM	(30°-60°)	530.2	8.5	B1/1000		
BH	(60°-80°)	235.8	3.8	B1/500		G1/500
BVH	(80°-90°)	7.4	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



REPORT NUMBER: P691701

CATALOG NUMBER: CRTK2-C018-D-U-T3-7040-U0-HSS-CRTK2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3
2.5°	1052.9	1052.9	1055.2	1052.9	1057.4	1050.6	1052.9	1052.9	1052.9	1055.2	1062.0
5°	1084.8	1084.8	1080.3	1073.4	1066.6	1057.4	1057.4	1057.4	1057.4	1062.0	1078.0
7.5°	1105.4	1103.1	1103.1	1103.1	1096.3	1078.0	1073.4	1071.1	1071.1	1071.1	1087.1
10°	1155.6	1148.8	1139.7	1126.0	1119.1	1103.1	1084.8	1082.6	1082.6	1084.8	1105.4
12.5°	1203.6	1196.8	1196.8	1187.6	1160.2	1141.9	1110.0	1098.5	1098.5	1103.1	1114.5
15°	1283.5	1276.7	1258.4	1242.4	1217.3	1185.3	1153.4	1132.8	1130.5	1139.7	1123.7
17.5°	1340.6	1329.2	1331.5	1306.4	1285.8	1240.1	1208.2	1176.2	1176.2	1185.3	1153.4
20°	1395.4	1395.4	1397.7	1395.4	1361.2	1324.6	1272.1	1233.3	1235.6	1237.9	1187.6
22.5°	1477.7	1475.4	1475.4	1477.7	1454.8	1413.7	1356.6	1313.2	1310.9	1292.7	1231.0
25°	1573.6	1569.0	1559.9	1569.0	1557.6	1509.6	1454.8	1411.4	1404.6	1379.5	1295.0
27.5°	1653.5	1653.5	1653.5	1658.1	1658.1	1623.8	1562.2	1516.5	1521.1	1486.8	1370.3
30°	1710.6	1710.6	1731.2	1740.3	1747.2	1735.7	1669.5	1621.6	1630.7	1589.6	1464.0
32.5°	1772.3	1770.0	1797.4	1818.0	1827.1	1831.7	1776.9	1738.0	1740.3	1703.8	1571.3
35°	1829.4	1824.8	1861.4	1904.8	1927.6	1923.0	1884.2	1870.5	1875.1	1863.6	1717.5
37.5°	1870.5	1877.3	1925.3	1982.4	2018.9	2028.1	2003.0	2028.1	2053.2	2069.2	1907.0
40°	1916.2	1916.2	1961.9	2023.5	2080.6	2114.9	2133.1	2224.5	2245.1	2256.5	2018.9
42.5°	1870.5	1886.5	1982.4	2071.5	2146.8	2199.4	2274.7	2427.8	2450.6	2379.8	2167.4
45°	1831.7	1845.4	1941.3	2092.0	2201.7	2304.4	2441.5	2601.3	2624.2	2503.1	2251.9
47.5°	1792.8	1808.8	1909.3	2076.0	2251.9	2420.9	2576.2	2749.8	2761.2	2610.5	2363.8
50°	1749.4	1765.4	1870.5	2055.5	2281.6	2546.5	2708.7	2886.8	2889.1	2704.1	2420.9
52.5°	1694.6	1715.2	1820.2	2025.8	2306.7	2631.0	2827.4	2987.3	2973.6	2818.3	2489.4
55°	1626.1	1649.0	1765.4	1987.0	2320.4	2685.8	2905.1	3085.5	3076.4	2950.8	2578.5
57.5°	1548.5	1573.6	1694.6	1927.6	2315.9	2713.2	2985.0	3247.7	3252.2	3060.4	2644.7
60°	1459.4	1482.2	1596.4	1849.9	2256.5	2763.5	3156.3	3425.8	3441.8	3181.4	2672.1
62.5°	1342.9	1363.5	1473.1	1735.7	2181.1	2800.0	3286.5	3594.8	3588.0	3263.7	2681.3
65°	1196.8	1219.6	1322.4	1585.0	2062.3	2777.2	3327.6	3674.8	3674.8	3323.0	2674.4
67.5°	1048.3	1068.9	1155.6	1393.2	1870.5	2663.0	3302.5	3706.7	3727.3	3361.9	2612.8
70°	849.6	861.0	947.8	1144.2	1603.3	2448.3	3238.5	3738.7	3736.4	3318.5	2496.3
72.5°	623.5	637.2	708.0	858.7	1240.1	2119.4	3037.6	3544.6	3508.0	3085.5	2270.2
75°	322.0	335.7	390.5	539.0	790.2	1495.9	2589.9	3131.2	3124.3	2731.5	1879.6
77.5°	43.4	43.4	50.2	89.1	182.7	596.1	1696.9	2345.5	2331.8	2082.9	1365.8
80°	29.7	29.7	34.3	41.1	52.5	130.2	598.4	1189.9	1210.5	1073.4	612.1
82.5°	22.8	20.6	25.1	29.7	32.0	59.4	182.7	328.9	333.4	299.2	187.3
85°	13.7	13.7	13.7	13.7	11.4	16.0	41.1	54.8	61.7	59.4	48.0
87.5°	6.9	6.9	6.9	4.6	2.3	2.3	2.3	2.3	2.3	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P691701

CATALOG NUMBER: CRTK2-C018-D-U-T3-7040-U0-HSS-CRTK2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3
2.5°	1064.3	1071.1	1080.3	1091.7	1103.1	1112.2	1121.4	1126.0	1130.5	1132.8	1135.1
5°	1082.6	1091.7	1103.1	1119.1	1119.1	1112.2	1107.7	1107.7	1112.2	1119.1	1121.4
7.5°	1100.8	1110.0	1105.4	1103.1	1105.4	1096.3	1084.8	1078.0	1073.4	1073.4	1078.0
10°	1107.7	1098.5	1094.0	1082.6	1059.7	1055.2	1046.0	1027.7	1023.2	1027.7	1011.8
12.5°	1103.1	1096.3	1073.4	1055.2	1032.3	993.5	970.6	970.6	959.2	956.9	959.2
15°	1114.5	1091.7	1064.3	1025.5	984.4	952.4	915.8	883.9	874.7	877.0	877.0
17.5°	1123.7	1100.8	1046.0	986.6	950.1	893.0	851.9	833.6	817.6	815.3	815.3
20°	1144.2	1112.2	1034.6	970.6	879.3	835.9	790.2	767.4	742.3	708.0	696.6
22.5°	1176.2	1132.8	1027.7	927.3	847.3	778.8	712.6	644.1	602.9	575.5	582.4
25°	1219.6	1171.6	1034.6	911.3	799.4	712.6	625.8	532.1	470.5	452.2	463.6
27.5°	1297.2	1215.0	1055.2	888.4	765.1	634.9	504.7	422.5	365.4	347.1	354.0
30°	1368.0	1281.3	1057.4	874.7	710.3	543.6	397.4	306.0	260.4	233.0	226.1
32.5°	1495.9	1352.1	1114.5	856.5	653.2	443.1	292.3	203.3	162.2	146.2	141.6
35°	1621.6	1477.7	1130.5	822.2	548.1	328.9	180.4	121.0	98.2	86.8	84.5
37.5°	1795.1	1630.7	1196.8	785.7	443.1	201.0	109.6	73.1	68.5	66.2	66.2
40°	1881.9	1710.6	1251.6	733.1	310.6	114.2	70.8	63.9	61.7	59.4	59.4
42.5°	2005.2	1802.0	1297.2	639.5	182.7	75.4	63.9	59.4	57.1	54.8	54.8
45°	2073.8	1849.9	1285.8	525.3	91.4	70.8	61.7	57.1	52.5	52.5	52.5
47.5°	2165.1	1920.7	1256.1	388.3	82.2	68.5	59.4	54.8	52.5	54.8	52.5
50°	2251.9	1989.3	1173.9	308.3	79.9	66.2	59.4	52.5	52.5	52.5	52.5
52.5°	2299.9	2053.2	1071.1	226.1	82.2	66.2	57.1	52.5	52.5	50.2	52.5
55°	2345.5	2062.3	988.9	164.4	82.2	63.9	54.8	50.2	48.0	45.7	45.7
57.5°	2377.5	2041.8	922.7	137.0	82.2	63.9	52.5	48.0	41.1	38.8	38.8
60°	2368.4	1991.5	867.9	125.6	77.7	59.4	48.0	41.1	36.5	32.0	32.0
62.5°	2343.3	1961.9	767.4	109.6	70.8	54.8	43.4	34.3	29.7	27.4	27.4
65°	2320.4	1868.2	650.9	98.2	66.2	48.0	36.5	29.7	25.1	22.8	22.8
67.5°	2210.8	1744.9	484.2	84.5	59.4	43.4	32.0	27.4	22.8	20.6	18.3
70°	2048.6	1546.2	317.5	73.1	52.5	36.5	27.4	22.8	18.3	16.0	16.0
72.5°	1772.3	1276.7	164.4	59.4	43.4	32.0	25.1	20.6	16.0	13.7	13.7
75°	1438.8	938.7	98.2	45.7	34.3	27.4	20.6	16.0	13.7	11.4	11.4
77.5°	995.8	518.4	70.8	34.3	22.8	20.6	16.0	13.7	11.4	9.1	9.1
80°	335.7	141.6	50.2	25.1	16.0	16.0	11.4	9.1	9.1	6.9	6.9
82.5°	132.5	86.8	34.3	18.3	13.7	11.4	9.1	6.9	6.9	6.9	6.9
85°	36.5	25.1	13.7	9.1	6.9	6.9	6.9	4.6	4.6	4.6	4.6
87.5°	2.3	4.6	4.6	4.6	4.6	4.6	2.3	2.3	2.3	2.3	2.3
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)