

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: P691870

Luminaire Tested: **CRTK2-C01H-D-U-T2-8027-U0**

Issue Date: 6/13/2023

Test Information

Test Method: LM-79-08
Report Number: P691870
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-C01H-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: 8247 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Circular (Dia: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

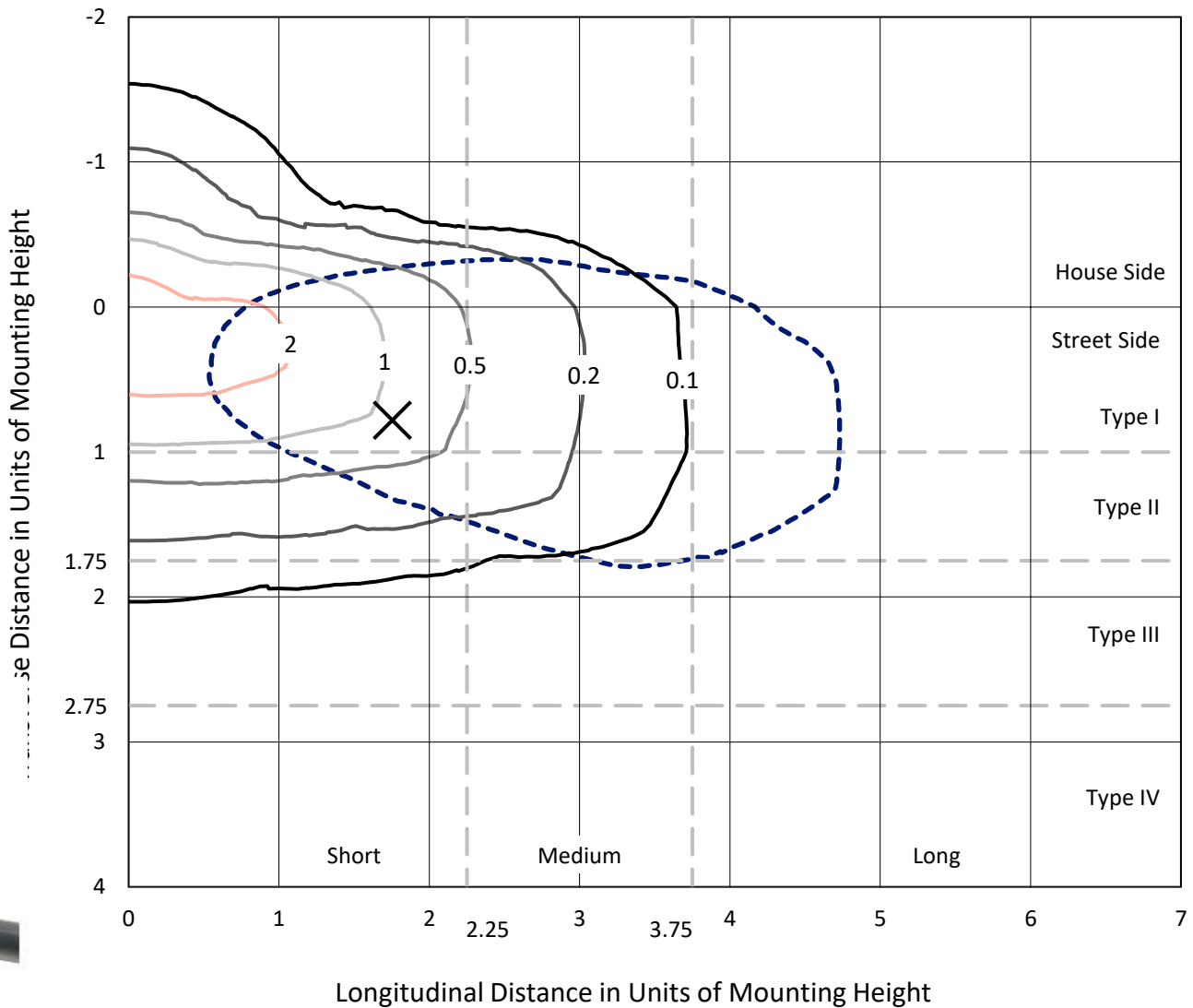
Input Watts (W): 70.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

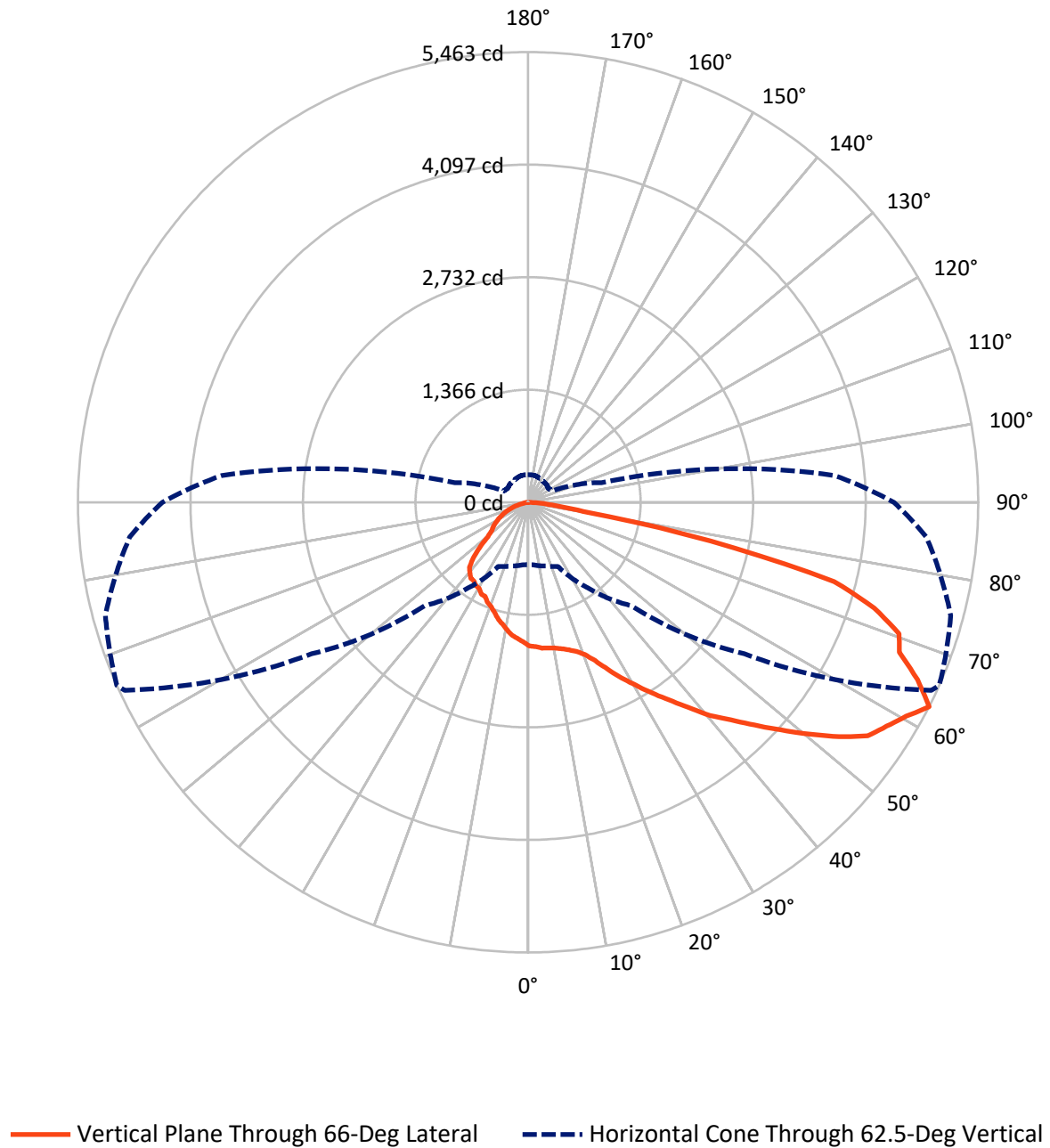
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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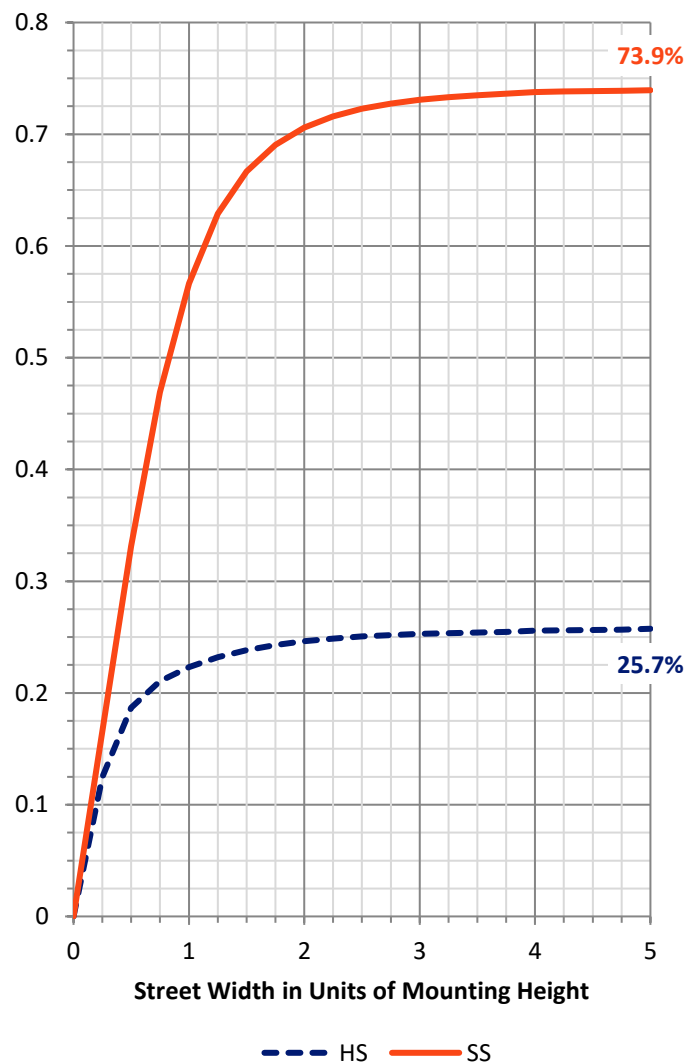
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2154.9	0.0	2154.9
	% Fixture	26.1	0.0	26.1
Street Side	Lumens	6092.1	0.0	6092.1
	% Fixture	73.9	0.0	73.9
Total	Lumens	8247.0	0.0	8247.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.2	2.0
10°-20°	463.1	5.6
20°-30°	752.0	9.1
30°-40°	1084.6	13.2
40°-50°	1410.8	17.1
50°-60°	1638.7	19.9
60°-70°	1621.3	19.7
70°-80°	1004.2	12.2
80°-90°	109.1	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°	8247.0	100.0
0°-180°	8247.0	100.0

Coefficient of Utilization



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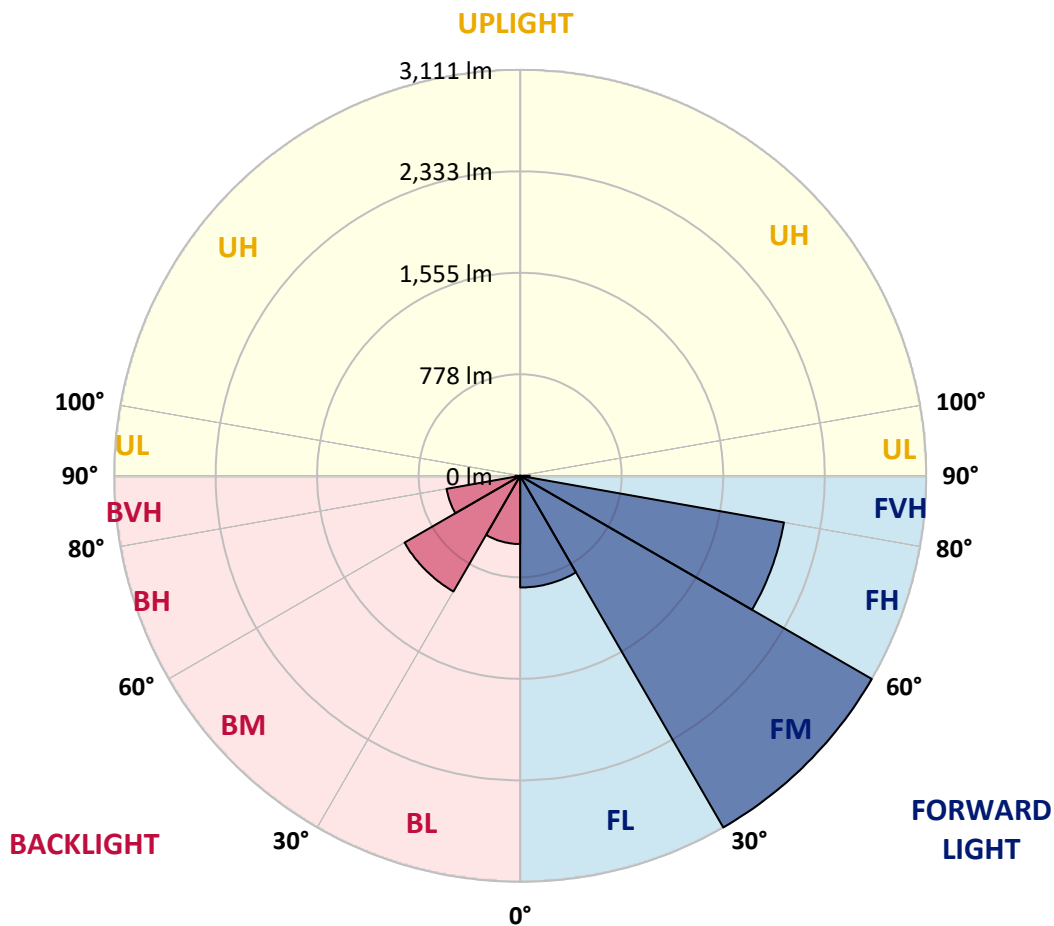
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	855.6	10.4			
FM	(30°-60°)	3110.9	37.7			
FH	(60°-80°)	2052.4	24.9			G2/5000
FVH	(80°-90°)	73.1	0.9			G1/100
BL	(0°-30°)	522.7	6.3	B2/1000		
BM	(30°-60°)	1023.2	12.4	B2/2500		
BH	(60°-80°)	573.1	6.9	B2/1000		G2/1000
BVH	(80°-90°)	35.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1744.4	1744.4	1744.4	1744.4	1744.4	1744.4	1744.4	1744.4	1744.4	1744.4	1744.4
2.5°	1806.8	1806.8	1812.5	1792.7	1781.3	1772.8	1764.3	1755.8	1753.0	1744.4	1733.1
5°	1886.3	1886.3	1889.1	1869.2	1846.6	1821.0	1795.5	1778.5	1778.5	1758.6	1730.3
7.5°	1928.8	1928.8	1928.8	1906.1	1891.9	1874.9	1835.2	1787.0	1784.2	1764.3	1724.6
10°	1928.8	1928.8	1940.2	1906.1	1894.8	1877.8	1855.1	1804.0	1798.3	1753.0	1699.1
12.5°	1962.9	1968.5	1962.9	1926.0	1914.6	1900.4	1869.2	1826.7	1823.9	1764.3	1687.7
15°	2011.1	2013.9	2005.4	1979.9	1968.5	1945.8	1909.0	1863.6	1857.9	1787.0	1696.2
17.5°	2022.4	2025.3	2030.9	1999.7	1999.7	1991.2	1971.4	1917.5	1903.3	1840.9	1721.7
20°	2016.7	2019.6	2028.1	2022.4	2025.3	2019.6	2033.8	1988.4	1971.4	1903.3	1761.5
22.5°	2042.3	2047.9	2065.0	2067.8	2079.1	2090.5	2096.2	2099.0	2087.7	2008.2	1843.7
25°	2050.8	2067.8	2090.5	2121.7	2161.4	2184.1	2215.3	2246.5	2243.7	2164.2	1979.9
27.5°	2011.1	2030.9	2101.8	2150.1	2238.0	2300.4	2371.3	2413.9	2413.9	2348.6	2135.9
30°	2047.9	2056.5	2093.3	2161.4	2263.5	2405.3	2516.0	2569.9	2575.5	2533.0	2289.0
32.5°	1971.4	1991.2	2082.0	2212.5	2368.5	2524.5	2635.1	2751.4	2757.1	2742.9	2513.1
35°	1962.9	1974.2	2025.3	2164.2	2365.6	2635.1	2782.6	2930.1	2944.3	2961.3	2731.5
37.5°	1874.9	1897.6	1996.9	2169.9	2445.1	2708.8	2907.4	3134.3	3157.0	3210.9	2918.7
40°	1781.3	1798.3	1880.6	2067.8	2419.5	2802.5	3029.4	3375.4	3403.8	3449.2	3176.9
42.5°	1653.7	1687.7	1829.5	2025.3	2408.2	2830.8	3165.5	3596.7	3608.0	3687.4	3381.1
45°	1534.5	1545.9	1653.7	1877.8	2308.9	2873.4	3267.6	3846.3	3854.8	3905.8	3551.3
47.5°	1438.1	1452.3	1562.9	1753.0	2218.1	2862.0	3369.8	4087.4	4127.1	4183.8	3758.3
50°	1140.3	1171.5	1463.6	1645.2	2062.1	2842.2	3452.0	4376.7	4422.1	4476.0	3979.6
52.5°	984.3	998.4	1145.9	1537.4	1909.0	2757.1	3528.6	4671.7	4725.6	4697.2	4260.4
55°	916.2	924.7	992.8	1324.6	1772.8	2595.4	3585.3	4946.8	5003.6	4867.4	4481.7
57.5°	868.0	879.3	919.0	1083.5	1619.6	2311.7	3591.0	5108.5	5128.4	5009.2	4572.4
60°	802.7	811.2	868.0	947.4	1440.9	2013.9	3488.9	5179.4	5273.0	5159.6	4776.6
62.5°	754.5	763.0	799.9	859.5	1267.9	1775.6	3205.2	5400.7	5463.1	5309.9	4853.2
65°	697.8	697.8	734.7	794.2	1157.3	1631.0	3057.7	5329.8	5193.6	5267.4	4946.8
67.5°	615.5	621.2	658.1	706.3	970.1	1492.0	2694.7	5000.7	4858.9	5063.1	4700.1
70°	547.4	541.8	581.5	618.4	794.2	1316.1	2232.3	4660.4	4776.6	4754.0	4473.1
72.5°	456.7	451.0	485.0	524.8	641.0	1092.0	1764.3	4325.6	4393.7	4251.9	3968.2
75°	354.6	320.5	368.7	419.8	504.9	865.1	1250.9	3582.5	3837.8	4008.0	3383.9
77.5°	56.7	56.7	70.9	99.3	164.5	439.7	558.8	1968.5	2257.8	3412.3	2967.0
80°	45.4	45.4	51.1	68.1	99.3	241.1	187.2	609.8	680.8	1472.1	1707.6
82.5°	25.5	25.5	36.9	45.4	62.4	73.7	82.3	297.8	331.9	521.9	660.9
85°	14.2	14.2	19.9	22.7	25.5	25.5	25.5	136.2	153.2	278.0	300.7
87.5°	8.5	8.5	8.5	8.5	8.5	5.7	2.8	2.8	2.8	2.8	2.8
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°	1744.4	1744.4	1744.4	1744.4	1744.4	1744.4	1744.4	1744.4	1744.4	1744.4	1744.4
2.5°	1727.4	1718.9	1704.7	1693.4	1684.9	1676.4	1662.2	1653.7	1653.7	1667.9	1670.7
5°	1713.2	1693.4	1667.9	1656.5	1642.3	1628.1	1605.5	1594.1	1591.3	1599.8	1605.5
7.5°	1701.9	1673.5	1648.0	1619.6	1577.1	1540.2	1520.4	1506.2	1511.8	1526.0	1520.4
10°	1667.9	1642.3	1602.6	1560.1	1509.0	1477.8	1446.6	1429.6	1432.4	1440.9	1432.4
12.5°	1653.7	1619.6	1554.4	1503.3	1458.0	1398.4	1358.7	1333.2	1333.2	1347.3	1347.3
15°	1653.7	1602.6	1514.7	1452.3	1381.4	1321.8	1276.4	1253.7	1267.9	1259.4	1253.7
17.5°	1667.9	1588.4	1489.2	1384.2	1299.1	1239.5	1185.7	1154.5	1163.0	1168.6	1163.0
20°	1684.9	1588.4	1458.0	1330.3	1231.0	1145.9	1086.4	1052.3	1049.5	1052.3	1058.0
22.5°	1741.6	1625.3	1438.1	1296.3	1145.9	1063.7	1004.1	944.6	941.7	938.9	944.6
25°	1838.0	1693.4	1452.3	1233.9	1097.7	975.8	902.0	850.9	833.9	831.1	836.8
27.5°	1996.9	1812.5	1475.0	1225.4	1009.8	899.2	808.4	751.7	734.7	740.3	737.5
30°	2169.9	1965.7	1540.2	1165.8	958.7	785.7	700.6	652.4	635.4	624.0	626.9
32.5°	2297.6	2118.9	1622.5	1145.9	859.5	663.7	601.3	573.0	553.1	538.9	536.1
35°	2498.9	2249.3	1696.2	1100.6	771.5	584.3	533.3	502.1	490.7	482.2	482.2
37.5°	2691.8	2408.2	1770.0	1086.4	658.1	530.4	468.0	448.2	442.5	436.8	436.8
40°	2884.7	2569.9	1812.5	1029.6	567.3	465.2	405.6	402.8	411.3	405.6	408.5
42.5°	3123.0	2737.2	1855.1	975.8	502.1	397.1	363.1	385.8	402.8	405.6	405.6
45°	3287.5	2850.7	1872.1	845.3	434.0	346.1	354.6	380.1	399.9	408.5	405.6
47.5°	3437.8	3003.8	1846.6	686.4	377.3	337.5	351.7	368.7	397.1	408.5	408.5
50°	3585.3	3131.5	1823.9	507.7	357.4	340.4	351.7	360.2	391.4	402.8	402.8
52.5°	3792.4	3233.6	1747.3	425.5	340.4	343.2	360.2	357.4	382.9	399.9	405.6
55°	4078.9	3471.9	1599.8	402.8	337.5	340.4	360.2	360.2	377.3	391.4	399.9
57.5°	4206.5	3574.0	1350.2	380.1	329.0	337.5	351.7	354.6	374.4	382.9	380.1
60°	4351.2	3701.6	1106.2	354.6	314.9	331.9	337.5	348.9	363.1	363.1	360.2
62.5°	4439.1	3732.8	921.9	326.2	297.8	312.0	312.0	323.4	334.7	334.7	334.7
65°	4481.7	3701.6	689.3	300.7	278.0	289.3	286.5	292.2	300.7	286.5	286.5
67.5°	4314.3	3585.3	476.5	266.6	255.3	266.6	263.8	266.6	263.8	252.4	255.3
70°	4027.8	3259.1	329.0	226.9	224.1	243.9	246.8	241.1	224.1	215.6	215.6
72.5°	3667.6	2615.2	226.9	181.5	190.0	215.6	221.2	209.9	192.9	184.4	184.4
75°	3327.2	2260.7	161.7	124.8	127.6	164.5	175.9	175.9	170.2	226.9	241.1
77.5°	2314.6	1463.6	93.6	65.2	62.4	93.6	107.8	110.6	212.7	229.8	224.1
80°	1372.9	689.3	68.1	39.7	39.7	53.9	73.7	144.7	243.9	164.5	147.5
82.5°	524.8	263.8	42.5	25.5	22.7	28.4	42.5	224.1	141.8	93.6	85.1
85°	190.0	65.2	19.9	14.2	14.2	17.0	25.5	190.0	99.3	70.9	68.1
87.5°	2.8	2.8	5.7	5.7	5.7	2.8	2.8	5.7	5.7	5.7	2.8
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)