

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: P800119

Luminaire Tested: **ARCH2-80-722-U-T3**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800119
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-80-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9626 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

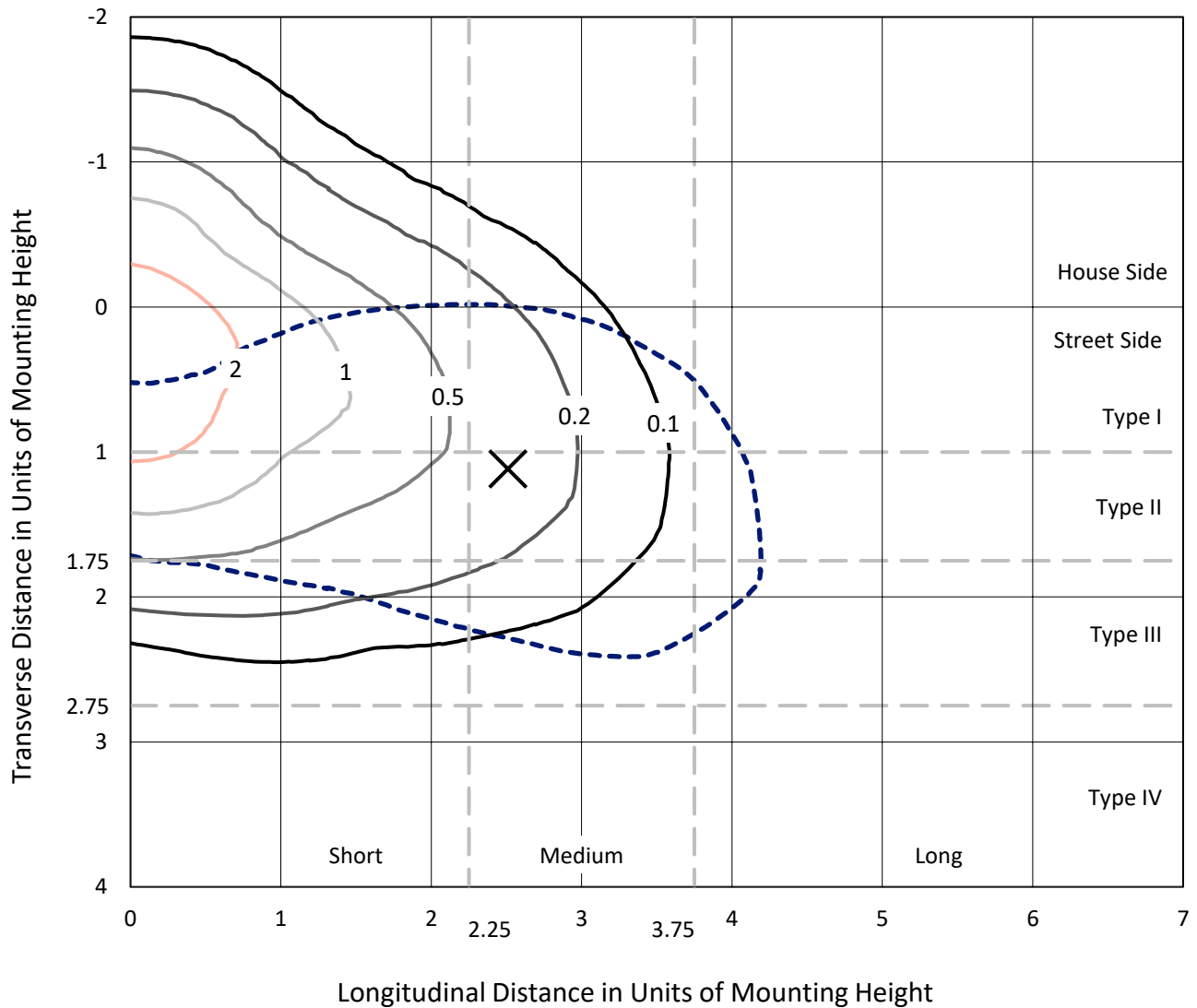
Input Watts (W): 84.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

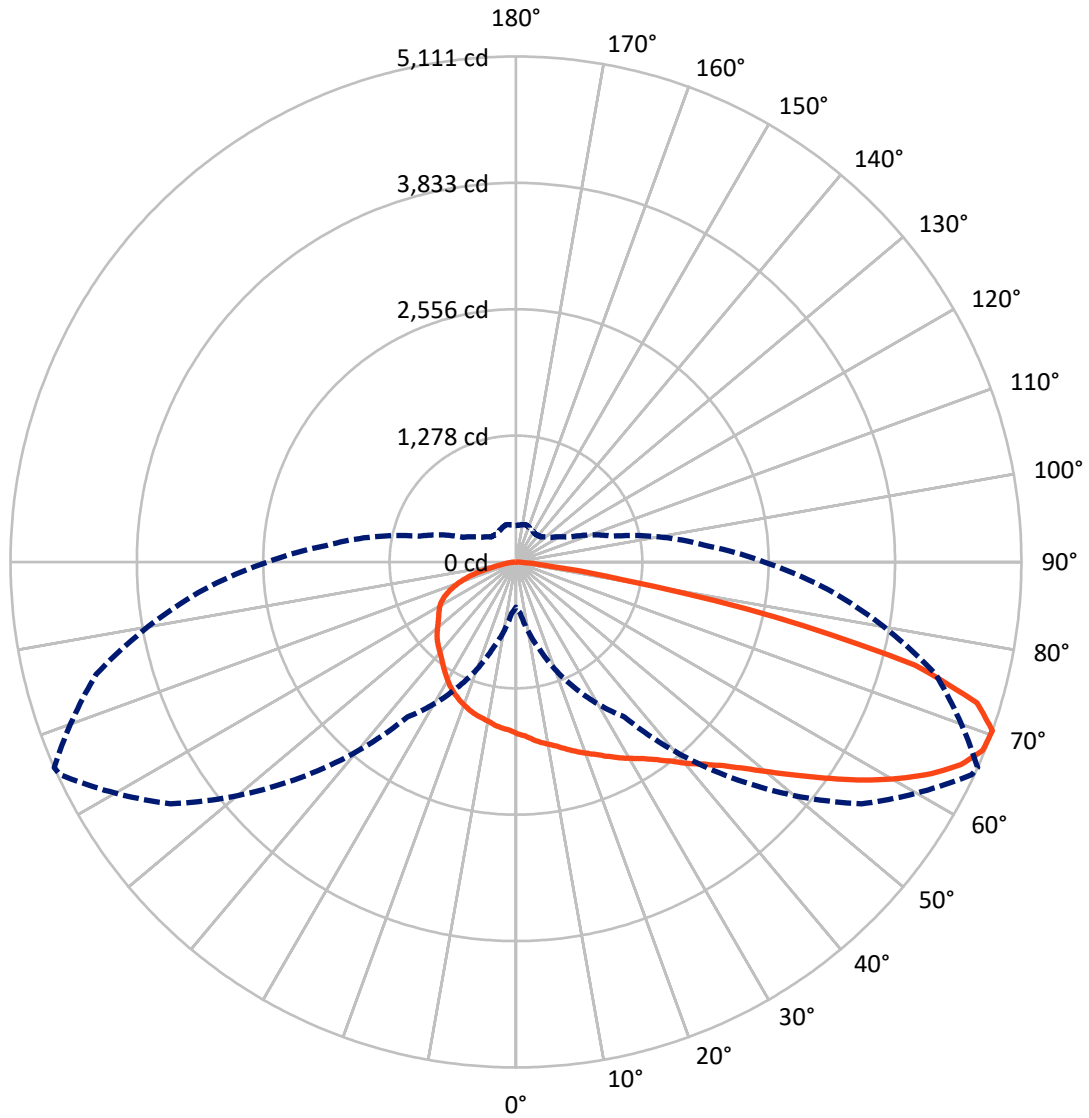
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2550.7	0.0	2550.7
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	7075.3	0.0	7075.3
	% Fixture	73.5	0.0	73.5
Total	Lumens	9626.0	0.0	9626.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.9	1.7
10°-20°	500.7	5.2
20°-30°	839.4	8.7
30°-40°	1256.9	13.1
40°-50°	1680.4	17.5
50°-60°	1962.0	20.4
60°-70°	1950.9	20.3
70°-80°	1154.9	12.0
80°-90°	113.8	1.2
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°	9626.0	100.0
0°-180°	9626.0	100.0

Coefficient of Utilization



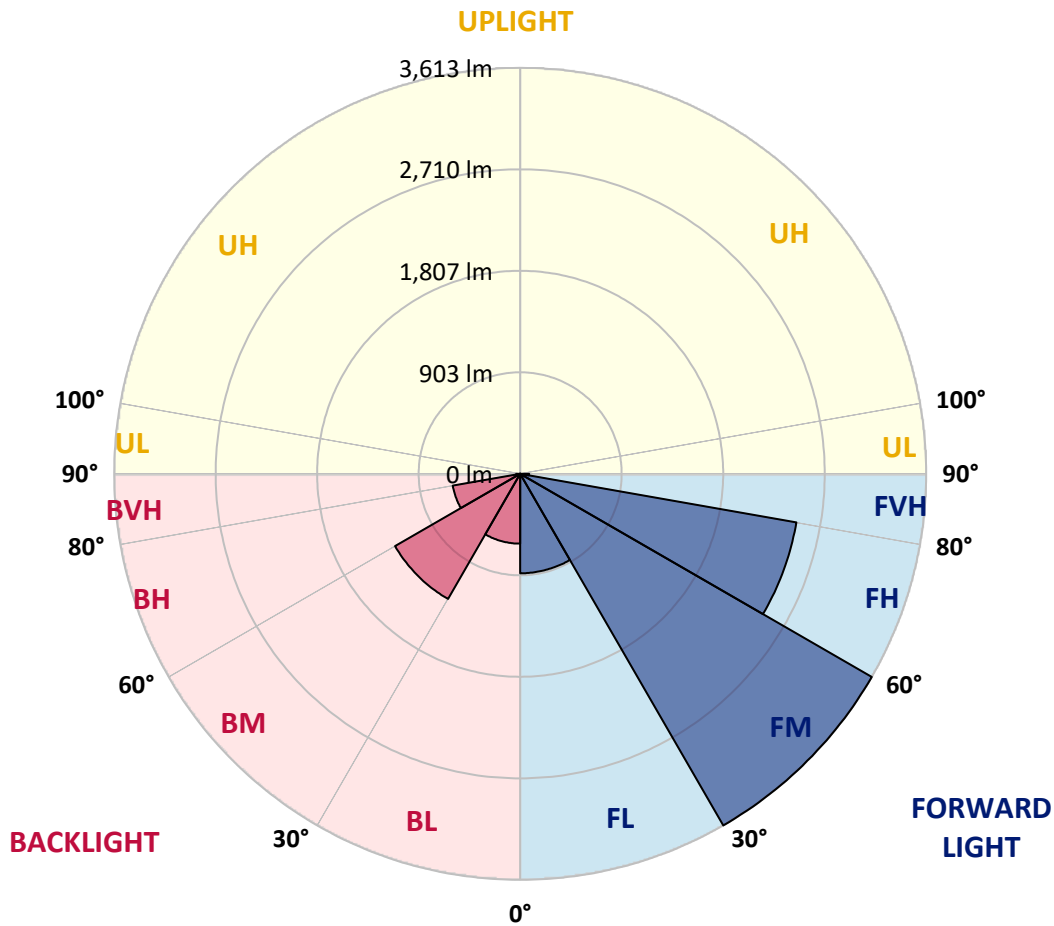
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	885.3	9.2			
FM (30°-60°)	3613.5	37.5			
FH (60°-80°)	2496.5	25.9			G2/5000
FVH (80°-90°)	80.0	0.8			G1/100
BL (0°-30°)	621.7	6.5	B2/1000		
BM (30°-60°)	1285.8	13.4	B2/2500		
BH (60°-80°)	609.3	6.3	B2/1000		G2/1000
BVH (80°-90°)	33.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1737.3	1737.3	1737.3	1737.3	1737.3	1737.3	1737.3	1737.3	1737.3	1737.3	1737.3
2.5°	1801.1	1798.3	1796.9	1791.2	1778.4	1784.1	1771.3	1762.8	1761.4	1741.5	1730.2
5°	1874.9	1873.5	1870.7	1862.2	1842.3	1845.1	1823.9	1808.2	1804.0	1772.8	1748.6
7.5°	1937.4	1934.6	1933.1	1921.8	1900.5	1899.1	1873.5	1850.8	1843.7	1801.1	1764.2
10°	1985.7	1981.4	1984.2	1972.9	1950.2	1945.9	1913.3	1883.5	1876.4	1822.4	1771.3
12.5°	2026.8	2024.0	2028.2	2018.3	1999.9	1995.6	1962.9	1924.6	1916.1	1853.7	1787.0
15°	2072.2	2062.3	2070.8	2066.6	2053.8	2052.4	2022.6	1980.0	1968.6	1893.4	1811.1
17.5°	2096.4	2090.7	2100.6	2102.0	2096.4	2106.3	2077.9	2026.8	2016.9	1930.3	1832.4
20°	2113.4	2104.9	2116.2	2124.8	2129.0	2148.9	2126.2	2076.5	2065.1	1965.8	1852.2
22.5°	2171.6	2153.1	2154.6	2160.2	2163.1	2191.5	2177.3	2129.0	2117.7	2009.8	1876.4
25°	2317.8	2280.9	2256.8	2239.7	2219.8	2244.0	2235.5	2188.6	2178.7	2062.3	1906.2
27.5°	2544.9	2498.0	2449.8	2400.1	2322.0	2312.1	2297.9	2255.3	2244.0	2114.8	1936.0
30°	2803.2	2756.4	2699.6	2620.1	2473.9	2397.3	2364.6	2317.8	2305.0	2161.7	1964.4
32.5°	3060.1	3018.9	2962.2	2865.7	2657.0	2500.9	2431.3	2383.1	2370.3	2212.8	1998.4
35°	3260.2	3234.7	3197.8	3077.1	2838.7	2622.9	2527.8	2469.7	2455.5	2293.7	2060.9
37.5°	3422.0	3403.6	3372.4	3246.0	2970.7	2745.0	2638.6	2571.8	2556.2	2381.7	2127.6
40°	3660.5	3612.2	3586.7	3403.6	3085.6	2855.7	2763.5	2693.9	2676.9	2475.3	2181.5
42.5°	3863.4	3828.0	3796.7	3544.1	3194.9	2950.8	2881.3	2817.4	2794.7	2567.6	2239.7
45°	3897.5	3911.7	3896.1	3613.6	3368.1	3044.5	3000.5	2959.3	2938.0	2692.5	2327.7
47.5°	3898.9	3898.9	3806.7	3653.4	3582.4	3149.5	3128.2	3142.4	3119.7	2851.5	2432.8
50°	3796.7	3815.2	3766.9	3663.3	3639.2	3254.5	3284.4	3361.0	3338.3	3020.4	2546.3
52.5°	3585.3	3646.3	3644.9	3647.7	3556.9	3344.0	3449.0	3623.6	3585.3	3210.6	2666.9
55°	3212.0	3334.0	3443.3	3537.0	3485.9	3397.9	3650.5	3903.2	3863.4	3423.5	2789.0
57.5°	2892.6	2970.7	3106.9	3372.4	3402.2	3444.7	3839.3	4195.6	4160.1	3659.1	2916.7
60°	2527.8	2635.7	2772.0	3149.5	3300.0	3505.8	4046.5	4480.9	4446.8	3897.5	3040.2
62.5°	1967.2	2106.3	2378.8	2807.5	3150.9	3544.1	4209.8	4732.1	4716.5	4123.2	3150.9
65°	1371.1	1494.6	1876.4	2387.3	2913.9	3527.1	4340.3	4956.3	4942.1	4307.7	3229.0
67.5°	800.5	943.9	1375.3	1921.8	2495.2	3409.3	4382.9	5088.3	5088.3	4419.8	3250.3
70°	457.0	523.7	907.0	1400.9	1913.3	3084.2	4263.7	5086.9	5111.0	4394.3	3162.3
72.5°	319.4	349.2	610.3	942.4	1297.3	2495.2	3951.4	4841.4	4874.0	4153.0	2861.4
75°	248.4	269.7	430.1	643.0	817.5	1694.7	3268.7	4082.0	4168.6	3539.8	2313.5
77.5°	188.8	204.4	251.2	401.7	523.7	973.7	2157.4	2676.9	2682.6	2167.3	1240.5
80°	137.7	153.3	167.5	245.5	278.2	455.6	814.7	1118.4	1087.2	1048.9	671.3
82.5°	82.3	97.9	102.2	133.4	136.3	194.4	285.3	360.5	346.3	461.3	315.1
85°	35.5	49.7	52.5	61.0	58.2	79.5	113.5	95.1	85.2	97.9	68.1
87.5°	8.5	14.2	14.2	15.6	12.8	19.9	21.3	15.6	14.2	17.0	17.0
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°	1737.3	1737.3	1737.3	1737.3	1737.3	1737.3	1737.3	1737.3	1737.3	1737.3	1737.3
2.5°	1727.3	1723.1	1724.5	1700.4	1693.3	1686.2	1681.9	1679.1	1676.2	1680.5	1684.8
5°	1740.1	1730.2	1718.8	1683.3	1669.1	1653.5	1642.2	1632.2	1628.0	1628.0	1632.2
7.5°	1750.0	1733.0	1708.9	1662.0	1636.5	1615.2	1596.8	1584.0	1576.9	1576.9	1581.1
10°	1751.5	1727.3	1689.0	1632.2	1598.2	1567.0	1545.7	1531.5	1521.5	1521.5	1524.4
12.5°	1760.0	1727.3	1677.7	1609.5	1567.0	1528.6	1503.1	1481.8	1477.5	1477.5	1480.4
15°	1774.2	1734.4	1670.6	1589.7	1538.6	1494.6	1466.2	1443.5	1435.0	1440.6	1442.1
17.5°	1787.0	1738.7	1657.8	1564.1	1503.1	1454.8	1423.6	1403.7	1392.4	1405.1	1405.1
20°	1795.5	1738.7	1639.3	1531.5	1464.8	1410.8	1381.0	1356.9	1348.4	1364.0	1365.4
22.5°	1808.2	1737.3	1619.5	1498.8	1423.6	1366.8	1337.0	1318.6	1314.3	1331.3	1337.0
25°	1822.4	1740.1	1598.2	1461.9	1378.2	1322.8	1300.1	1291.6	1294.4	1315.7	1322.8
27.5°	1838.0	1745.8	1576.9	1420.8	1328.5	1278.8	1266.1	1270.3	1281.7	1308.6	1317.1
30°	1852.2	1747.2	1547.1	1372.5	1271.7	1224.9	1230.6	1249.0	1266.1	1293.0	1303.0
32.5°	1870.7	1748.6	1515.9	1320.0	1210.7	1176.6	1202.2	1232.0	1249.0	1274.6	1285.9
35°	1916.1	1772.8	1491.7	1268.9	1153.9	1135.5	1178.1	1216.4	1226.3	1249.0	1259.0
37.5°	1968.6	1812.5	1479.0	1216.4	1098.6	1094.3	1148.2	1186.6	1189.4	1203.6	1213.5
40°	2001.3	1829.5	1464.8	1172.4	1048.9	1051.7	1107.1	1136.9	1131.2	1141.2	1148.2
42.5°	2033.9	1835.2	1435.0	1135.5	1002.1	1004.9	1047.5	1068.8	1071.6	1092.9	1102.8
45°	2089.3	1850.8	1402.3	1101.4	959.5	949.5	975.1	1003.5	1040.4	1081.5	1092.9
47.5°	2163.1	1883.5	1368.2	1060.2	918.3	885.7	895.6	945.3	983.6	1021.9	1029.0
50°	2238.3	1916.1	1337.0	1010.6	877.2	817.5	821.8	867.2	898.4	928.2	932.5
52.5°	2312.1	1944.5	1310.1	963.7	830.3	736.6	753.7	800.5	821.8	836.0	840.3
55°	2385.9	1968.6	1285.9	924.0	776.4	672.8	688.4	732.4	753.7	760.8	763.6
57.5°	2462.6	1997.0	1267.5	889.9	715.3	616.0	625.9	657.2	677.0	685.5	682.7
60°	2526.4	2021.1	1257.5	854.4	654.3	563.5	560.6	589.0	617.4	625.9	623.1
62.5°	2576.1	2036.8	1241.9	809.0	600.4	511.0	496.8	533.7	563.5	569.2	573.4
65°	2603.1	2038.2	1203.6	750.8	545.0	454.2	444.3	481.2	499.6	505.3	505.3
67.5°	2598.8	2015.5	1128.4	672.8	493.9	403.1	394.6	417.3	444.3	448.5	444.3
70°	2510.8	1921.8	1007.7	590.4	432.9	357.7	342.1	364.8	390.3	374.7	367.6
72.5°	2261.0	1679.1	830.3	499.6	364.8	300.9	293.8	316.5	317.9	320.8	313.7
75°	1784.1	1250.4	621.7	388.9	295.2	252.6	251.2	247.0	252.6	264.0	255.5
77.5°	936.8	624.5	336.4	238.4	214.3	203.0	193.0	191.6	208.6	215.7	207.2
80°	508.1	350.6	193.0	143.4	130.6	132.0	144.8	141.9	160.4	164.6	157.5
82.5°	221.4	166.1	95.1	86.6	86.6	85.2	89.4	99.4	119.2	119.2	95.1
85°	48.3	41.2	36.9	42.6	48.3	48.3	48.3	48.3	34.1	18.5	12.8
87.5°	15.6	15.6	15.6	17.0	18.5	18.5	15.6	11.4	7.1	1.4	0.0
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)