

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: P800007

Luminaire Tested: **ARCH2-70-727-U-T3**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800007
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: ARCH2-70-727-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9615 lumens
Efficiency: N/A
Efficacy: 130.6 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

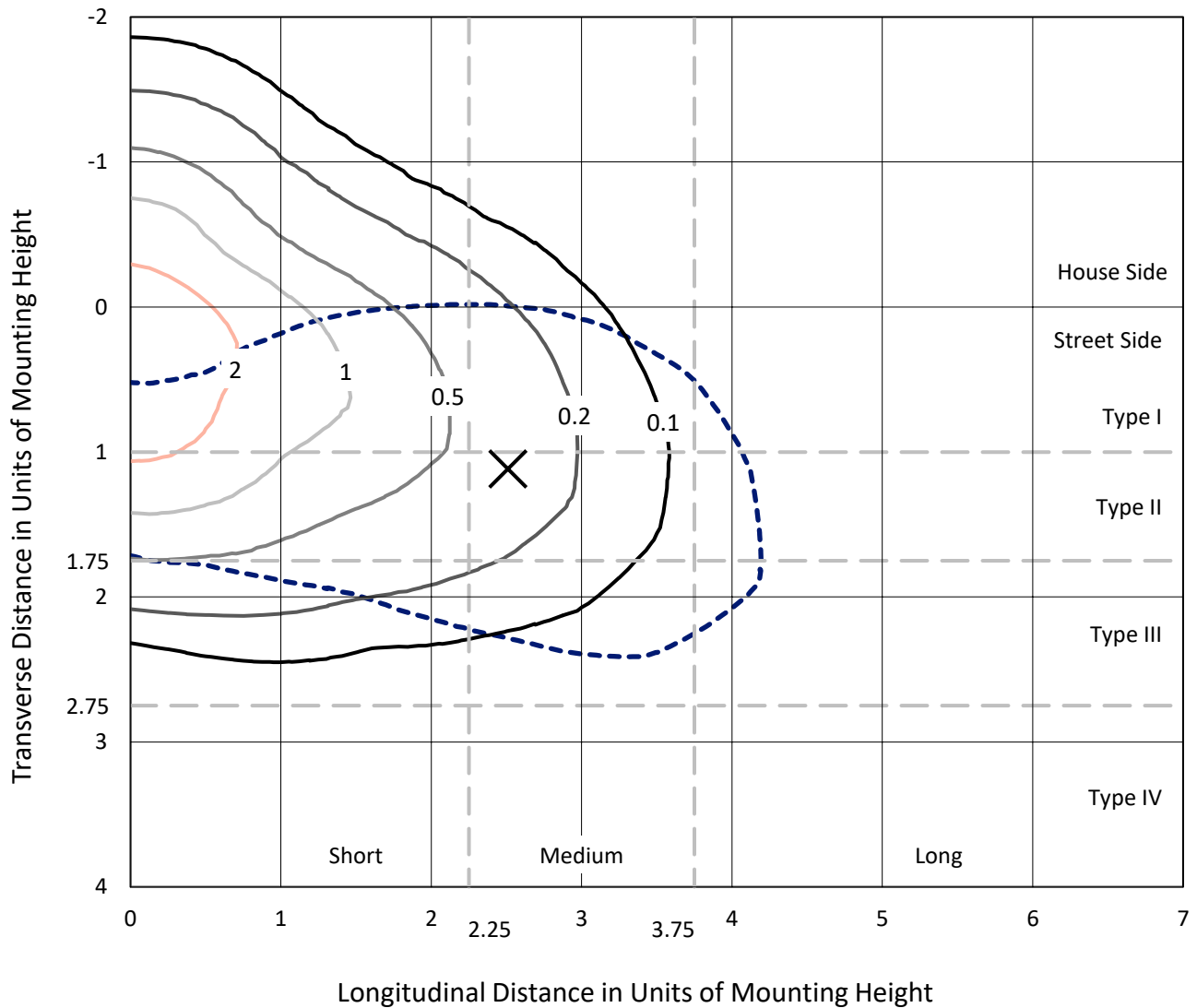
Input Watts (W): 73.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

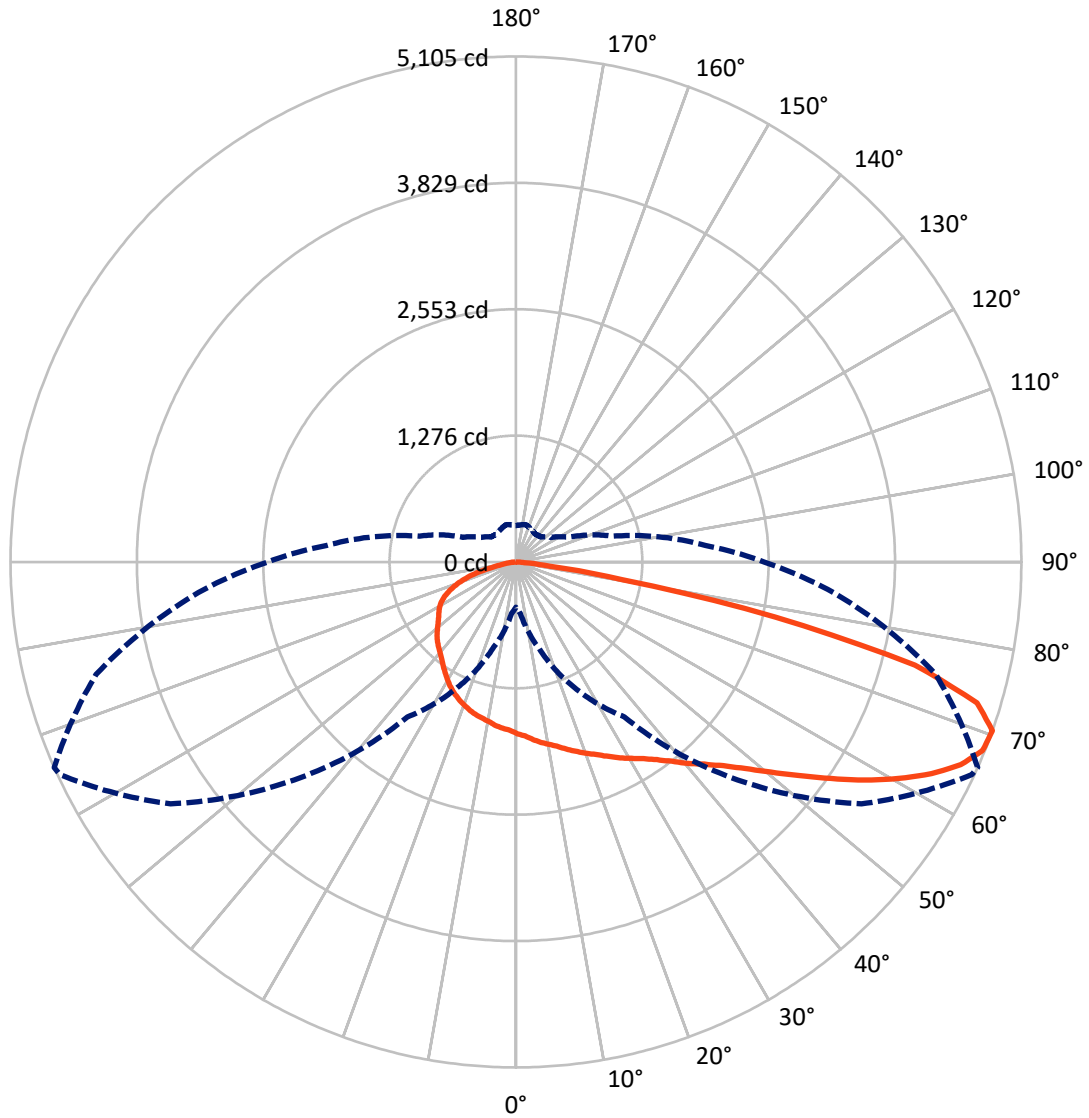
✕ Max cd
 - - - 1/2 Max cd



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	2547.8	0.0	2547.8
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	7067.2	0.0	7067.2
	% Fixture	73.5	0.0	73.5
Total	Lumens	9615.0	0.0	9615.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.7	1.7
10°-20°	500.2	5.2
20°-30°	838.4	8.7
30°-40°	1255.4	13.1
40°-50°	1678.5	17.5
50°-60°	1959.7	20.4
60°-70°	1948.6	20.3
70°-80°	1153.6	12.0
80°-90°	113.7	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°	9615.0	100.0
0°-180°	9615.0	100.0



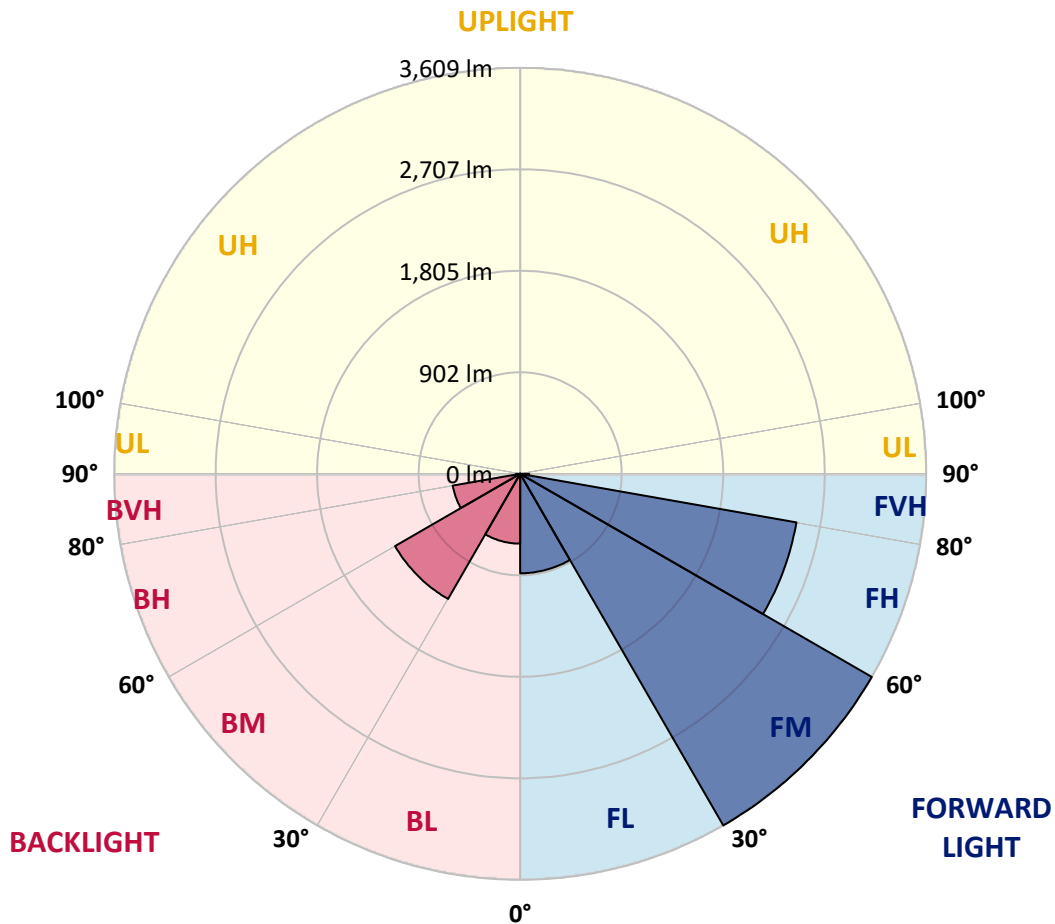
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	884.3	9.2			
FM (30°-60°)	3609.3	37.5			
FH (60°-80°)	2493.7	25.9			G2/5000
FVH (80°-90°)	79.9	0.8			G1/100
BL (0°-30°)	621.0	6.5	B2/1000		
BM (30°-60°)	1284.3	13.4	B2/2500		
BH (60°-80°)	608.6	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°	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3
2.5°	1799.1	1796.3	1794.8	1789.2	1776.4	1782.1	1769.3	1760.8	1759.4	1739.5	1728.2
5°	1872.8	1871.4	1868.6	1860.0	1840.2	1843.0	1821.8	1806.2	1801.9	1770.7	1746.6
7.5°	1935.2	1932.4	1930.9	1919.6	1898.3	1896.9	1871.4	1848.7	1841.6	1799.1	1762.2
10°	1983.4	1979.1	1982.0	1970.6	1947.9	1943.7	1911.1	1881.3	1874.2	1820.4	1769.3
12.5°	2024.5	2021.7	2025.9	2016.0	1997.6	1993.3	1960.7	1922.4	1913.9	1851.5	1784.9
15°	2069.9	2059.9	2068.5	2064.2	2051.4	2050.0	2020.3	1977.7	1966.4	1891.2	1809.0
17.5°	2094.0	2088.3	2098.2	2099.6	2094.0	2103.9	2075.5	2024.5	2014.6	1928.1	1830.3
20°	2111.0	2102.5	2113.8	2122.3	2126.6	2146.4	2123.7	2074.1	2062.8	1963.5	1850.1
22.5°	2169.1	2150.7	2152.1	2157.8	2160.6	2189.0	2174.8	2126.6	2115.2	2007.5	1874.2
25°	2315.1	2278.3	2254.2	2237.2	2217.3	2241.4	2232.9	2186.1	2176.2	2059.9	1904.0
27.5°	2542.0	2495.2	2447.0	2397.4	2319.4	2309.5	2295.3	2252.8	2241.4	2112.4	1933.8
30°	2800.0	2753.2	2696.5	2617.1	2471.1	2394.5	2361.9	2315.1	2302.4	2159.2	1962.1
32.5°	3056.6	3015.5	2958.8	2862.4	2654.0	2498.0	2428.6	2380.4	2367.6	2210.2	1996.1
35°	3256.5	3231.0	3194.1	3073.6	2835.4	2619.9	2525.0	2466.8	2452.7	2291.0	2058.5
37.5°	3418.1	3399.7	3368.5	3242.3	2967.3	2741.9	2635.5	2568.9	2553.3	2378.9	2125.2
40°	3656.3	3608.1	3582.6	3399.7	3082.1	2852.5	2760.3	2690.8	2673.8	2472.5	2179.0
42.5°	3859.0	3823.6	3792.4	3540.0	3191.3	2947.4	2878.0	2814.2	2791.5	2564.7	2237.2
45°	3893.1	3907.2	3891.6	3609.5	3364.2	3041.0	2997.1	2955.9	2934.7	2689.4	2325.1
47.5°	3894.5	3894.5	3802.3	3649.2	3578.3	3145.9	3124.7	3138.8	3116.1	2848.2	2430.0
50°	3792.4	3810.8	3762.6	3659.1	3635.0	3250.8	3280.6	3357.2	3334.5	3016.9	2543.4
52.5°	3581.2	3642.1	3640.7	3643.5	3552.8	3340.1	3445.1	3619.4	3581.2	3206.9	2663.9
55°	3208.3	3330.2	3439.4	3533.0	3481.9	3394.0	3646.4	3898.7	3859.0	3419.5	2785.8
57.5°	2889.3	2967.3	3103.4	3368.5	3398.3	3440.8	3834.9	4190.8	4155.3	3654.9	2913.4
60°	2525.0	2632.7	2768.8	3145.9	3296.2	3501.8	4041.9	4475.7	4441.7	3893.1	3036.8
62.5°	1965.0	2103.9	2376.1	2804.2	3147.3	3540.0	4205.0	4726.7	4711.1	4118.5	3147.3
65°	1369.5	1492.9	1874.2	2384.6	2910.6	3523.0	4335.4	4950.7	4936.5	4302.8	3225.3
67.5°	799.6	942.8	1373.8	1919.6	2492.4	3405.4	4377.9	5082.5	5082.5	4414.8	3246.6
70°	456.5	523.1	905.9	1399.3	1911.1	3080.7	4258.8	5081.1	5105.2	4389.3	3158.7
72.5°	319.0	348.8	609.6	941.4	1295.8	2492.4	3946.9	4835.8	4868.4	4148.2	2858.1
75°	248.1	269.4	429.6	642.2	816.6	1692.8	3265.0	4077.4	4163.8	3535.8	2310.9
77.5°	188.6	204.2	250.9	401.2	523.1	972.6	2154.9	2673.8	2679.5	2164.9	1239.1
80°	137.5	153.1	167.3	245.3	277.9	455.1	813.8	1117.2	1086.0	1047.7	670.6
82.5°	82.2	97.8	102.1	133.3	136.1	194.2	285.0	360.1	345.9	460.8	314.7
85°	35.4	49.6	52.5	61.0	58.1	79.4	113.4	95.0	85.1	97.8	68.1
87.5°	8.5	14.2	14.2	15.6	12.8	19.8	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°	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3
2.5°	1725.4	1721.1	1722.5	1698.4	1691.3	1684.3	1680.0	1677.2	1674.3	1678.6	1682.8
5°	1738.1	1728.2	1716.9	1681.4	1667.2	1651.6	1640.3	1630.4	1626.1	1626.1	1630.4
7.5°	1748.0	1731.0	1706.9	1660.1	1634.6	1613.4	1594.9	1582.2	1575.1	1575.1	1579.3
10°	1749.5	1725.4	1687.1	1630.4	1596.4	1565.2	1543.9	1529.7	1519.8	1519.8	1522.6
12.5°	1758.0	1725.4	1675.7	1607.7	1565.2	1526.9	1501.4	1480.1	1475.8	1475.8	1478.7
15°	1772.1	1732.5	1668.7	1587.8	1536.8	1492.9	1464.5	1441.8	1433.3	1439.0	1440.4
17.5°	1784.9	1736.7	1655.9	1562.3	1501.4	1453.2	1422.0	1402.1	1390.8	1403.5	1403.5
20°	1793.4	1736.7	1637.5	1529.7	1463.1	1409.2	1379.4	1355.3	1346.8	1362.4	1363.8
22.5°	1806.2	1735.3	1617.6	1497.1	1422.0	1365.3	1335.5	1317.1	1312.8	1329.8	1335.5
25°	1820.4	1738.1	1596.4	1460.3	1376.6	1321.3	1298.6	1290.1	1293.0	1314.2	1321.3
27.5°	1835.9	1743.8	1575.1	1419.1	1327.0	1277.4	1264.6	1268.9	1280.2	1307.1	1315.6
30°	1850.1	1745.2	1545.3	1370.9	1270.3	1223.5	1229.2	1247.6	1264.6	1291.5	1301.5
32.5°	1868.6	1746.6	1514.1	1318.5	1209.3	1175.3	1200.8	1230.6	1247.6	1273.1	1284.5
35°	1913.9	1770.7	1490.0	1267.4	1152.6	1134.2	1176.7	1215.0	1224.9	1247.6	1257.5
37.5°	1966.4	1810.4	1477.3	1215.0	1097.3	1093.1	1146.9	1185.2	1188.0	1202.2	1212.2
40°	1999.0	1827.4	1463.1	1171.0	1047.7	1050.5	1105.8	1135.6	1129.9	1139.8	1146.9
42.5°	2031.6	1833.1	1433.3	1134.2	1000.9	1003.7	1046.3	1067.5	1070.4	1091.6	1101.6
45°	2086.9	1848.7	1400.7	1100.2	958.4	948.5	974.0	1002.3	1039.2	1080.3	1091.6
47.5°	2160.6	1881.3	1366.7	1059.0	917.3	884.7	894.6	944.2	982.5	1020.8	1027.8
50°	2235.7	1913.9	1335.5	1009.4	876.2	816.6	820.9	866.2	897.4	927.2	931.4
52.5°	2309.5	1942.3	1308.6	962.6	829.4	735.8	752.8	799.6	820.9	835.0	839.3
55°	2383.2	1966.4	1284.5	922.9	775.5	672.0	687.6	731.5	752.8	759.9	762.7
57.5°	2459.7	1994.7	1266.0	888.9	714.5	615.3	625.2	656.4	676.3	684.8	681.9
60°	2523.5	2018.8	1256.1	853.5	653.6	562.8	560.0	588.4	616.7	625.2	622.4
62.5°	2573.2	2034.4	1240.5	808.1	599.7	510.4	496.2	533.1	562.8	568.5	572.8
65°	2600.1	2035.8	1202.2	750.0	544.4	453.7	443.7	480.6	499.0	504.7	504.7
67.5°	2595.8	2013.2	1127.1	672.0	493.4	402.6	394.1	416.8	443.7	448.0	443.7
70°	2507.9	1919.6	1006.6	589.8	432.4	357.3	341.7	364.4	389.9	374.3	367.2
72.5°	2258.4	1677.2	829.4	499.0	364.4	300.6	293.5	316.2	317.6	320.4	313.3
75°	1782.1	1249.0	621.0	388.5	294.9	252.4	250.9	246.7	252.4	263.7	255.2
77.5°	935.7	623.8	336.0	238.2	214.1	202.7	192.8	191.4	208.4	215.5	207.0
80°	507.5	350.2	192.8	143.2	130.4	131.8	144.6	141.8	160.2	164.5	157.4
82.5°	221.2	165.9	95.0	86.5	86.5	85.1	89.3	99.2	119.1	119.1	95.0
85°	48.2	41.1	36.9	42.5	48.2	48.2	48.2	48.2	34.0	18.4	12.8
87.5°	15.6	15.6	15.6	17.0	18.4	18.4	15.6	11.3	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)