

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: P799943

Luminaire Tested: **ARCH2-60-750-U-T3**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799943
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: ARCH2-60-750-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 485mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9339 lumens
Efficiency: N/A
Efficacy: 146.4 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

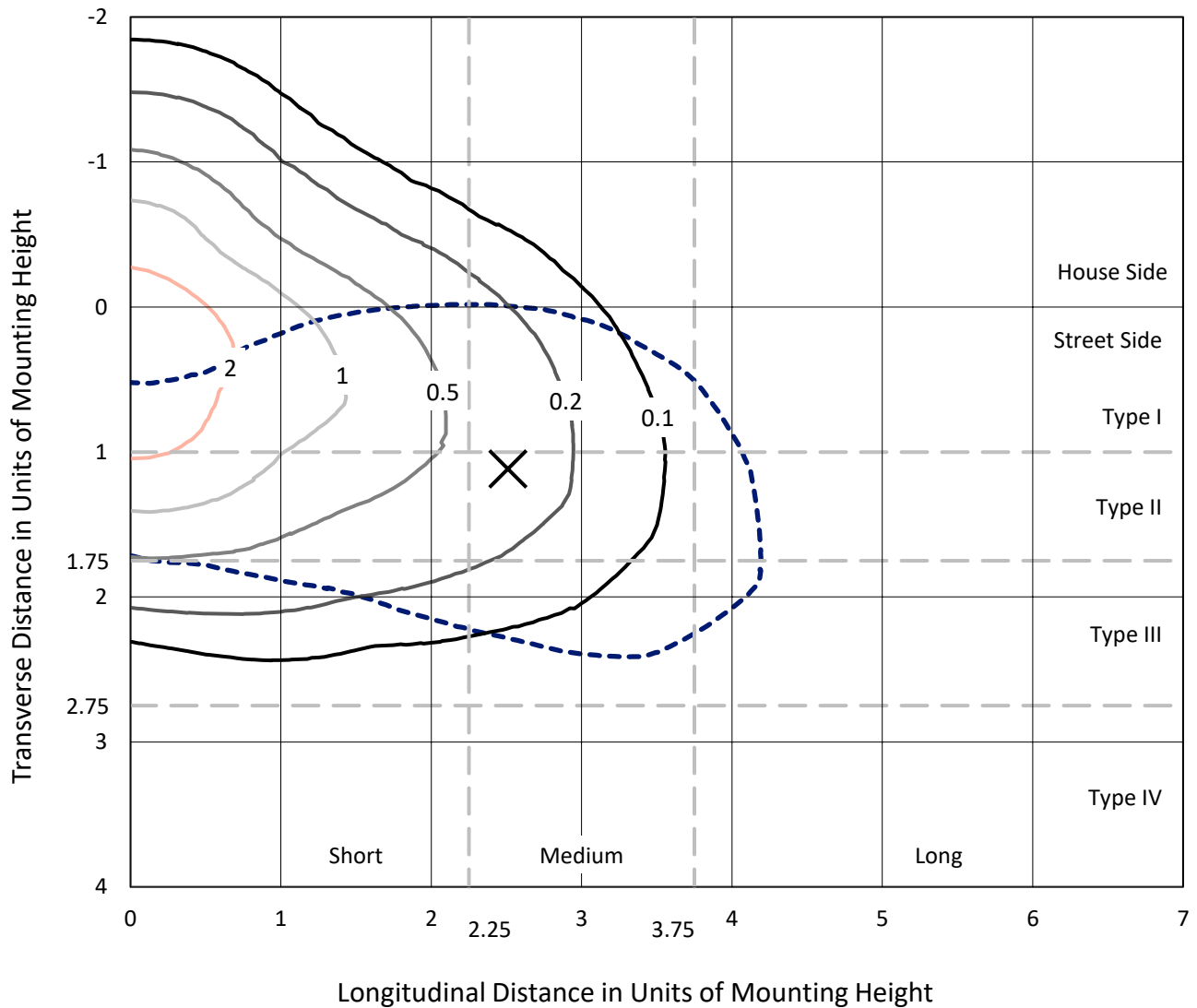
Input Watts (W): 63.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P799943
 CATALOG NUMBER: ARCH2-60-750-U-T3

Iso-Footcandle Lines of Horizontal Illumination

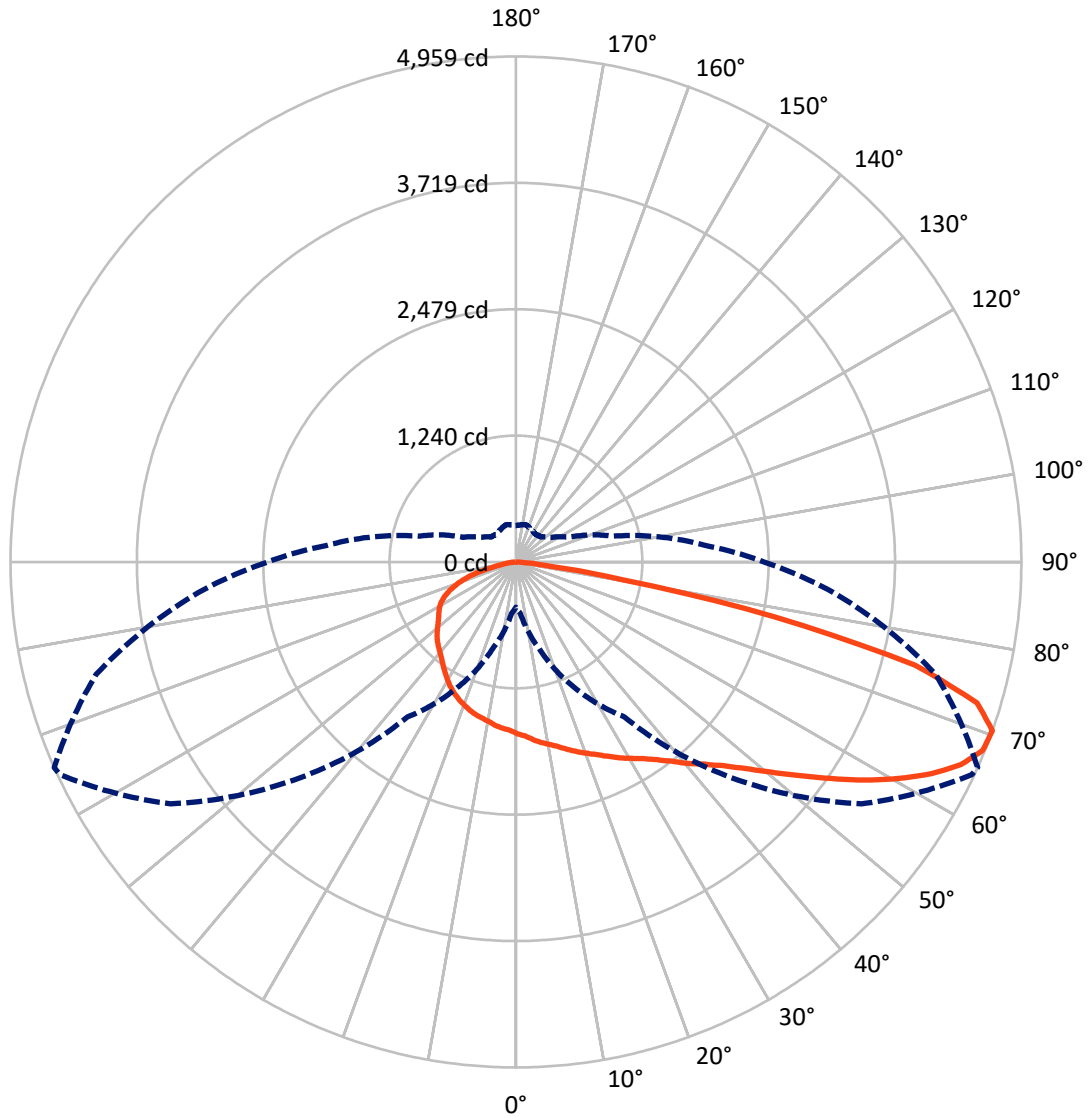
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P799943
CATALOG NUMBER: ARCH2-60-750-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P799943
 CATALOG NUMBER: ARCH2-60-750-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2474.6	0.0	2474.6
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	6864.4	0.0	6864.4
	% Fixture	73.5	0.0	73.5
Total	Lumens	9339.0	0.0	9339.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.0	1.7
10°-20°	485.8	5.2
20°-30°	814.4	8.7
30°-40°	1219.4	13.1
40°-50°	1630.3	17.5
50°-60°	1903.5	20.4
60°-70°	1892.7	20.3
70°-80°	1120.5	12.0
80°-90°	110.4	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°	9339.0	100.0
0°-180°	9339.0	100.0

Coefficient of Utilization



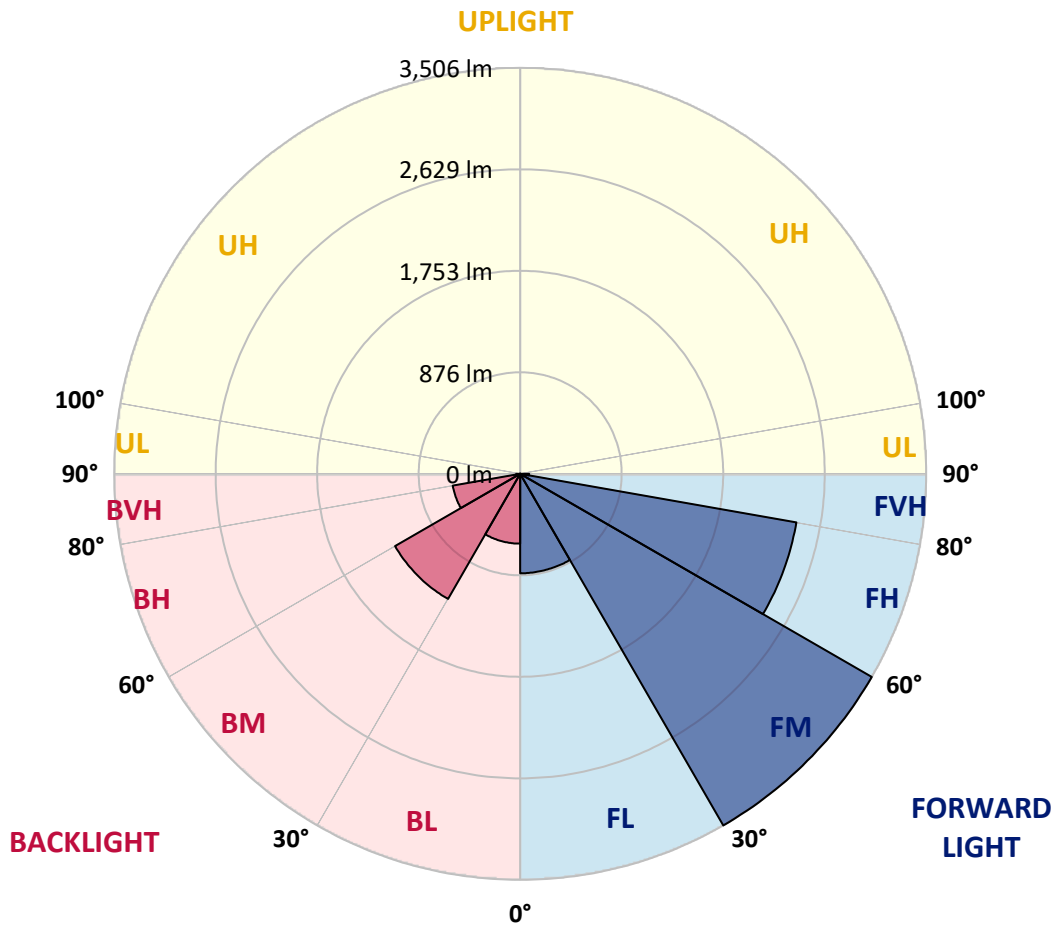
REPORT NUMBER: P799943
 CATALOG NUMBER: ARCH2-60-750-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	858.9	9.2			
FM (30°-60°)	3505.7	37.5			
FH (60°-80°)	2422.1	25.9			G2/5000
FVH (80°-90°)	77.6	0.8			G1/100
BL (0°-30°)	603.2	6.5	B2/1000		
BM (30°-60°)	1247.5	13.4	B2/2500		
BH (60°-80°)	591.1	6.3	B2/1000		G2/1000
BVH (80°-90°)	32.8	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



REPORT NUMBER: P799943
 CATALOG NUMBER: ARCH2-60-750-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1685.5	1685.5	1685.5	1685.5	1685.5	1685.5	1685.5	1685.5	1685.5	1685.5	1685.5
2.5°	1747.4	1744.7	1743.3	1737.8	1725.4	1730.9	1718.5	1710.3	1708.9	1689.6	1678.6
5°	1819.0	1817.7	1814.9	1806.7	1787.4	1790.1	1769.5	1754.3	1750.2	1719.9	1696.5
7.5°	1879.6	1876.9	1875.5	1864.5	1843.8	1842.5	1817.7	1795.6	1788.8	1747.4	1711.6
10°	1926.5	1922.3	1925.1	1914.1	1892.0	1887.9	1856.2	1827.3	1820.4	1768.1	1718.5
12.5°	1966.4	1963.6	1967.8	1958.1	1940.2	1936.1	1904.4	1867.2	1859.0	1798.4	1733.7
15°	2010.5	2000.8	2009.1	2004.9	1992.6	1991.2	1962.3	1920.9	1909.9	1836.9	1757.1
17.5°	2033.9	2028.4	2038.0	2039.4	2033.9	2043.5	2016.0	1966.4	1956.8	1872.8	1777.7
20°	2050.4	2042.1	2053.1	2061.4	2065.5	2084.8	2062.8	2014.6	2003.6	1907.2	1797.0
22.5°	2106.8	2088.9	2090.3	2095.8	2098.6	2126.1	2112.4	2065.5	2054.5	1949.9	1820.4
25°	2248.7	2212.9	2189.5	2172.9	2153.7	2177.1	2168.8	2123.4	2113.7	2000.8	1849.3
27.5°	2469.0	2423.6	2376.7	2328.5	2252.8	2243.2	2229.4	2188.1	2177.1	2051.8	1878.3
30°	2719.6	2674.2	2619.1	2542.0	2400.2	2325.8	2294.1	2248.7	2236.3	2097.2	1905.8
32.5°	2968.9	2928.9	2873.8	2780.2	2577.8	2426.3	2358.8	2312.0	2299.6	2146.8	1938.8
35°	3163.0	3138.2	3102.4	2985.4	2754.0	2544.7	2452.5	2396.0	2382.3	2225.3	1999.4
37.5°	3320.0	3302.1	3271.8	3149.3	2882.1	2663.2	2559.9	2495.2	2480.0	2310.6	2064.2
40°	3551.3	3504.5	3479.7	3302.1	2993.6	2770.6	2681.1	2613.6	2597.1	2401.5	2116.5
42.5°	3748.3	3713.8	3683.5	3438.4	3099.7	2862.8	2795.4	2733.4	2711.4	2491.0	2172.9
45°	3781.3	3795.1	3779.9	3505.9	3267.7	2953.7	2911.0	2871.1	2850.4	2612.2	2258.3
47.5°	3782.7	3782.7	3693.2	3544.5	3475.6	3055.6	3035.0	3048.7	3026.7	2766.4	2360.2
50°	3683.5	3701.4	3654.6	3554.1	3530.7	3157.5	3186.4	3260.8	3238.8	2930.3	2470.4
52.5°	3478.4	3537.6	3536.2	3539.0	3450.8	3244.3	3346.2	3515.5	3478.4	3114.8	2587.4
55°	3116.2	3234.6	3340.7	3431.5	3382.0	3296.6	3541.7	3786.8	3748.3	3321.4	2705.9
57.5°	2806.4	2882.1	3014.3	3271.8	3300.7	3342.0	3724.8	4070.5	4036.1	3550.0	2829.8
60°	2452.5	2557.1	2689.3	3055.6	3201.6	3401.2	3925.9	4347.3	4314.2	3781.3	2949.6
62.5°	1908.6	2043.5	2307.9	2723.8	3057.0	3438.4	4084.3	4591.0	4575.8	4000.3	3057.0
65°	1330.2	1450.0	1820.4	2316.2	2827.0	3421.9	4210.9	4808.6	4794.8	4179.3	3132.7
67.5°	776.6	915.7	1334.3	1864.5	2420.8	3307.6	4252.2	4936.6	4936.6	4288.1	3153.4
70°	443.4	508.1	879.9	1359.1	1856.2	2992.3	4136.6	4935.3	4958.7	4263.3	3068.0
72.5°	309.8	338.7	592.1	914.3	1258.6	2420.8	3833.6	4697.0	4728.7	4029.2	2776.1
75°	241.0	261.6	417.2	623.8	793.2	1644.2	3171.3	3960.3	4044.3	3434.3	2244.5
77.5°	183.1	198.3	243.7	389.7	508.1	944.6	2093.1	2597.1	2602.6	2102.7	1203.5
80°	133.6	148.7	162.5	238.2	269.9	442.0	790.4	1085.1	1054.8	1017.6	651.3
82.5°	79.9	95.0	99.1	129.4	132.2	188.7	276.8	349.8	336.0	447.5	305.7
85°	34.4	48.2	50.9	59.2	56.5	77.1	110.2	92.3	82.6	95.0	66.1
87.5°	8.3	13.8	13.8	15.1	12.4	19.3	20.7	15.1	13.8	16.5	16.5
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: P799943
 CATALOG NUMBER: ARCH2-60-750-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1685.5	1685.5	1685.5	1685.5	1685.5	1685.5	1685.5	1685.5	1685.5	1685.5	1685.5
2.5°	1675.8	1671.7	1673.1	1649.7	1642.8	1635.9	1631.8	1629.0	1626.3	1630.4	1634.5
5°	1688.2	1678.6	1667.6	1633.1	1619.4	1604.2	1593.2	1583.6	1579.4	1579.4	1583.6
7.5°	1697.9	1681.3	1657.9	1612.5	1587.7	1567.1	1549.2	1536.8	1529.9	1529.9	1534.0
10°	1699.2	1675.8	1638.7	1583.6	1550.5	1520.2	1499.6	1485.8	1476.2	1476.2	1478.9
12.5°	1707.5	1675.8	1627.6	1561.5	1520.2	1483.1	1458.3	1437.6	1433.5	1433.5	1436.2
15°	1721.3	1682.7	1620.8	1542.3	1492.7	1450.0	1422.5	1400.4	1392.2	1397.7	1399.1
17.5°	1733.7	1686.9	1608.4	1517.5	1458.3	1411.4	1381.2	1361.9	1350.9	1363.3	1363.3
20°	1741.9	1686.9	1590.5	1485.8	1421.1	1368.8	1339.8	1316.4	1308.2	1323.3	1324.7
22.5°	1754.3	1685.5	1571.2	1454.1	1381.2	1326.1	1297.2	1279.3	1275.1	1291.6	1297.2
25°	1768.1	1688.2	1550.5	1418.3	1337.1	1283.4	1261.4	1253.1	1255.8	1276.5	1283.4
27.5°	1783.2	1693.7	1529.9	1378.4	1288.9	1240.7	1228.3	1232.4	1243.5	1269.6	1277.9
30°	1797.0	1695.1	1501.0	1331.6	1233.8	1188.4	1193.9	1211.8	1228.3	1254.5	1264.1
32.5°	1814.9	1696.5	1470.7	1280.6	1174.6	1141.6	1166.3	1195.3	1211.8	1236.6	1247.6
35°	1859.0	1719.9	1447.3	1231.1	1119.5	1101.6	1142.9	1180.1	1189.7	1211.8	1221.4
37.5°	1909.9	1758.5	1434.9	1180.1	1065.8	1061.7	1114.0	1151.2	1153.9	1167.7	1177.4
40°	1941.6	1775.0	1421.1	1137.4	1017.6	1020.4	1074.1	1103.0	1097.5	1107.1	1114.0
42.5°	1973.3	1780.5	1392.2	1101.6	972.2	974.9	1016.2	1036.9	1039.7	1060.3	1069.9
45°	2027.0	1795.6	1360.5	1068.6	930.9	921.2	946.0	973.6	1009.4	1049.3	1060.3
47.5°	2098.6	1827.3	1327.5	1028.6	890.9	859.3	868.9	917.1	954.3	991.5	998.3
50°	2171.6	1859.0	1297.2	980.4	851.0	793.2	797.3	841.4	871.7	900.6	904.7
52.5°	2243.2	1886.5	1271.0	935.0	805.6	714.7	731.2	776.6	797.3	811.1	815.2
55°	2314.8	1909.9	1247.6	896.4	753.2	652.7	667.9	710.5	731.2	738.1	740.8
57.5°	2389.1	1937.5	1229.7	863.4	694.0	597.6	607.3	637.6	656.8	665.1	662.3
60°	2451.1	1960.9	1220.0	829.0	634.8	546.7	543.9	571.5	599.0	607.3	604.5
62.5°	2499.3	1976.0	1204.9	784.9	582.5	495.7	482.0	517.8	546.7	552.2	556.3
65°	2525.5	1977.4	1167.7	728.4	528.8	440.6	431.0	466.8	484.7	490.2	490.2
67.5°	2521.3	1955.4	1094.7	652.7	479.2	391.1	382.8	404.8	431.0	435.1	431.0
70°	2436.0	1864.5	977.7	572.8	420.0	347.0	331.9	353.9	378.7	363.5	356.6
72.5°	2193.6	1629.0	805.6	484.7	353.9	291.9	285.0	307.1	308.5	311.2	304.3
75°	1730.9	1213.2	603.1	377.3	286.4	245.1	243.7	239.6	245.1	256.1	247.9
77.5°	908.8	605.9	326.4	231.3	207.9	196.9	187.3	185.9	202.4	209.3	201.0
80°	493.0	340.1	187.3	139.1	126.7	128.1	140.5	137.7	155.6	159.7	152.8
82.5°	214.8	161.1	92.3	84.0	84.0	82.6	86.8	96.4	115.7	115.7	92.3
85°	46.8	39.9	35.8	41.3	46.8	46.8	46.8	46.8	33.0	17.9	12.4
87.5°	15.1	15.1	15.1	16.5	17.9	17.9	15.1	11.0	6.9	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)