

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: P800023

Luminaire Tested: **ARCH2-70-730-U-T3**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800023
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: ARCH2-70-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9964 lumens
Efficiency: N/A
Efficacy: 135.4 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

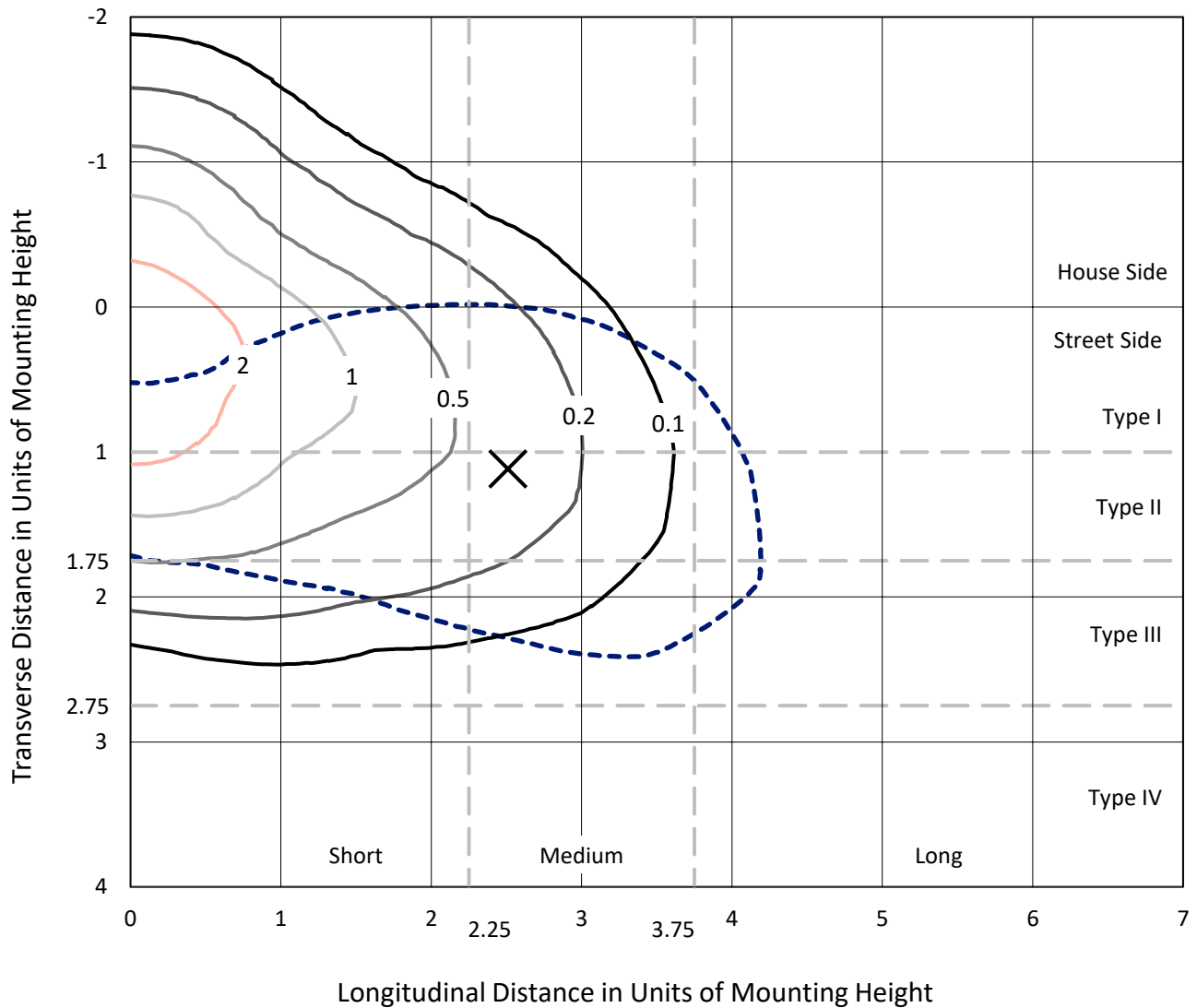
Input Watts (W): 73.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

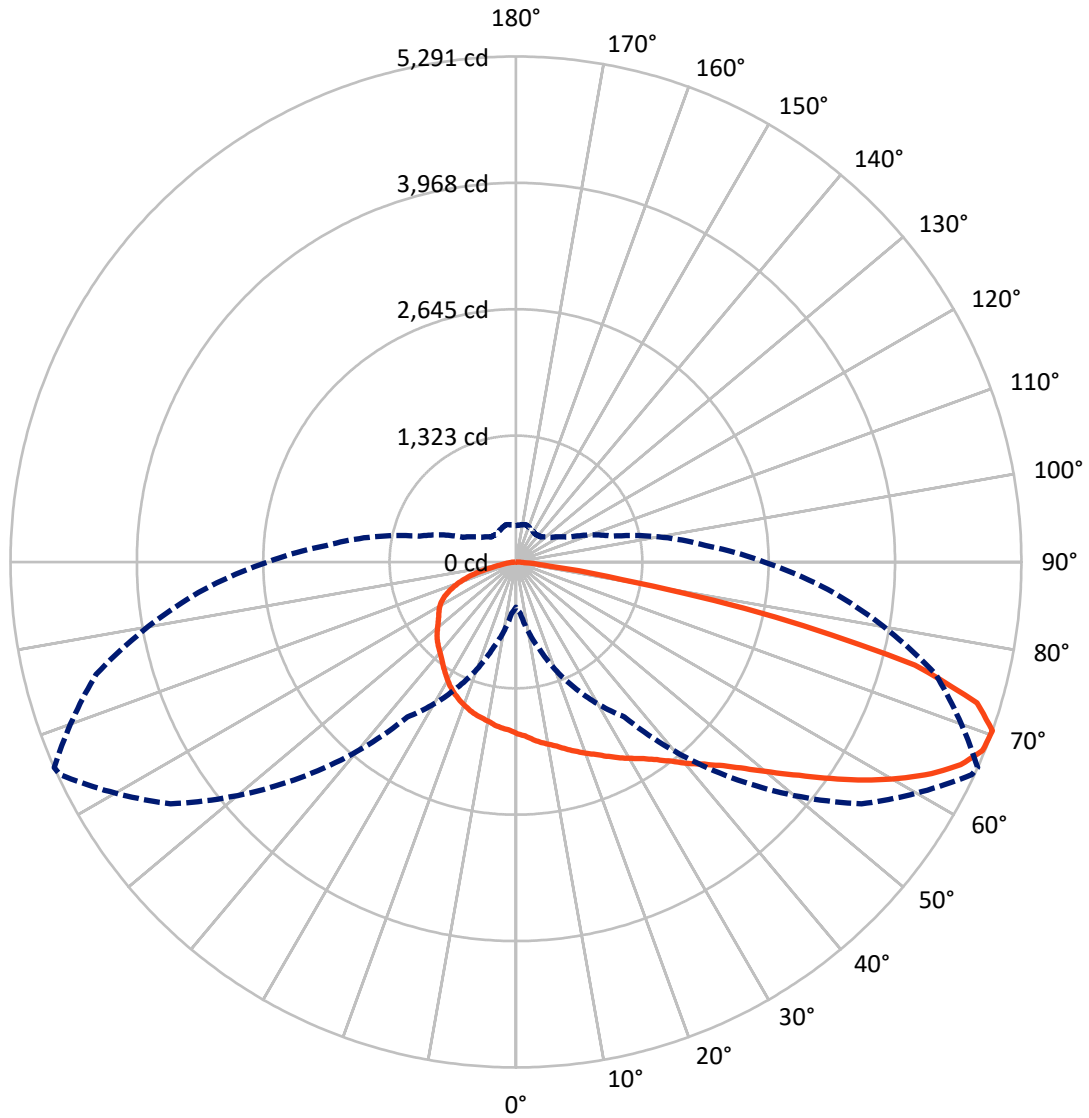
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	2640.2	0.0	2640.2
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	7323.8	0.0	7323.8
	% Fixture	73.5	0.0	73.5
Total	Lumens	9964.0	0.0	9964.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.8	1.7
10°-20°	518.3	5.2
20°-30°	868.9	8.7
30°-40°	1301.0	13.1
40°-50°	1739.4	17.5
50°-60°	2030.9	20.4
60°-70°	2019.4	20.3
70°-80°	1195.5	12.0
80°-90°	117.8	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°	9964.0	100.0
0°-180°	9964.0	100.0

Coefficient of Utilization



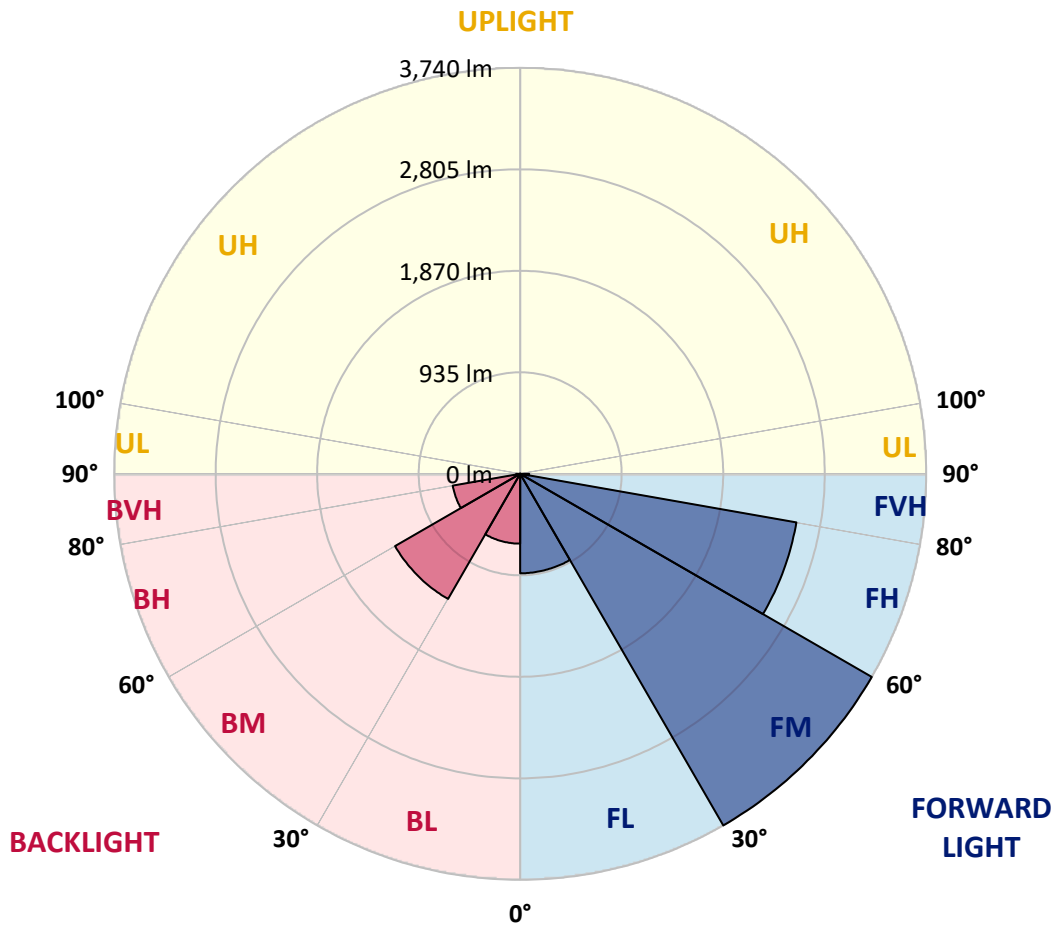
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	916.4	9.2			
FM (30°-60°)	3740.4	37.5			
FH (60°-80°)	2584.2	25.9			G2/5000
FVH (80°-90°)	82.8	0.8			G1/100
BL (0°-30°)	643.6	6.5	B2/1000		
BM (30°-60°)	1331.0	13.4	B2/2500		
BH (60°-80°)	630.7	6.3	B2/1000		G2/1000
BVH (80°-90°)	35.0	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°	1798.3	1798.3	1798.3	1798.3	1798.3	1798.3	1798.3	1798.3	1798.3	1798.3	1798.3
2.5°	1864.4	1861.4	1860.0	1854.1	1840.9	1846.8	1833.5	1824.7	1823.3	1802.7	1790.9
5°	1940.8	1939.3	1936.4	1927.6	1907.0	1909.9	1887.9	1871.7	1867.3	1835.0	1810.0
7.5°	2005.4	2002.5	2001.0	1989.3	1967.2	1965.8	1939.3	1915.8	1908.5	1864.4	1826.2
10°	2055.4	2051.0	2053.9	2042.2	2018.7	2014.2	1980.5	1949.6	1942.3	1886.4	1833.5
12.5°	2098.0	2095.0	2099.5	2089.2	2070.1	2065.7	2031.9	1992.2	1983.4	1918.7	1849.7
15°	2145.0	2134.7	2143.5	2139.1	2125.9	2124.4	2093.6	2049.5	2037.8	1959.9	1874.7
17.5°	2170.0	2164.1	2174.4	2175.9	2170.0	2180.3	2150.9	2098.0	2087.7	1998.1	1896.7
20°	2187.6	2178.8	2190.5	2199.4	2203.8	2224.3	2200.8	2149.4	2137.7	2034.8	1917.3
22.5°	2247.8	2228.7	2230.2	2236.1	2239.0	2268.4	2253.7	2203.8	2192.0	2080.4	1942.3
25°	2399.2	2361.0	2336.0	2318.4	2297.8	2322.8	2314.0	2265.5	2255.2	2134.7	1973.1
27.5°	2634.2	2585.8	2535.8	2484.4	2403.6	2393.3	2378.6	2334.5	2322.8	2189.1	2004.0
30°	2901.6	2853.1	2794.4	2712.1	2560.8	2481.4	2447.7	2399.2	2385.9	2237.6	2033.3
32.5°	3167.5	3124.9	3066.2	2966.3	2750.3	2588.7	2516.7	2466.8	2453.5	2290.5	2068.6
35°	3374.7	3348.3	3310.1	3185.2	2938.4	2715.0	2616.6	2556.4	2541.7	2374.2	2133.2
37.5°	3542.2	3523.1	3490.8	3360.0	3075.0	2841.4	2731.2	2662.2	2646.0	2465.3	2202.3
40°	3789.0	3739.1	3712.6	3523.1	3194.0	2956.0	2860.5	2788.5	2770.9	2562.2	2258.1
42.5°	3999.1	3962.4	3930.1	3668.5	3307.1	3054.4	2982.4	2916.3	2892.8	2657.7	2318.4
45°	4034.4	4049.1	4032.9	3740.5	3486.4	3151.4	3105.8	3063.2	3041.2	2787.0	2409.5
47.5°	4035.8	4035.8	3940.3	3781.7	3708.2	3260.1	3238.1	3252.8	3229.3	2951.6	2518.2
50°	3930.1	3949.2	3899.2	3792.0	3767.0	3368.8	3399.7	3479.0	3455.5	3126.4	2635.7
52.5°	3711.1	3774.3	3772.9	3775.8	3681.8	3461.4	3570.1	3750.8	3711.1	3323.3	2760.6
55°	3324.8	3451.1	3564.2	3661.2	3608.3	3517.2	3778.7	4040.2	3999.1	3543.7	2886.9
57.5°	2994.2	3075.0	3216.0	3490.8	3521.6	3565.7	3974.1	4342.9	4306.2	3787.5	3019.2
60°	2616.6	2728.3	2869.3	3260.1	3415.8	3628.9	4188.6	4638.2	4602.9	4034.4	3147.0
62.5°	2036.3	2180.3	2462.3	2906.0	3261.6	3668.5	4357.6	4898.2	4882.1	4268.0	3261.6
65°	1419.2	1547.0	1942.3	2471.2	3016.2	3650.9	4492.7	5130.4	5115.7	4459.0	3342.4
67.5°	828.6	977.0	1423.6	1989.3	2582.8	3529.0	4536.8	5267.0	5267.0	4575.0	3364.4
70°	473.1	542.1	938.8	1450.1	1980.5	3192.5	4413.4	5265.5	5290.5	4548.6	3273.3
72.5°	330.6	361.4	631.7	975.5	1342.8	2582.8	4090.2	5011.4	5045.2	4298.8	2961.9
75°	257.1	279.1	445.2	665.5	846.2	1754.2	3383.5	4225.4	4315.0	3664.1	2394.8
77.5°	195.4	211.6	260.0	415.8	542.1	1007.9	2233.2	2770.9	2776.7	2243.4	1284.1
80°	142.5	158.7	173.4	254.2	288.0	471.6	843.3	1157.7	1125.4	1085.7	694.9
82.5°	85.2	101.4	105.8	138.1	141.0	201.3	295.3	373.2	358.5	477.5	326.2
85°	36.7	51.4	54.4	63.2	60.2	82.3	117.5	98.4	88.2	101.4	70.5
87.5°	8.8	14.7	14.7	16.2	13.2	20.6	22.0	16.2	14.7	17.6	17.6
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°	1798.3	1798.3	1798.3	1798.3	1798.3	1798.3	1798.3	1798.3	1798.3	1798.3	1798.3
2.5°	1788.0	1783.6	1785.1	1760.1	1752.7	1745.4	1741.0	1738.0	1735.1	1739.5	1743.9
5°	1801.2	1790.9	1779.2	1742.4	1727.8	1711.6	1699.8	1689.6	1685.1	1685.1	1689.6
7.5°	1811.5	1793.9	1768.9	1720.4	1694.0	1671.9	1652.8	1639.6	1632.3	1632.3	1636.7
10°	1813.0	1788.0	1748.3	1689.6	1654.3	1622.0	1599.9	1585.2	1575.0	1575.0	1577.9
12.5°	1821.8	1788.0	1736.6	1666.0	1622.0	1582.3	1555.9	1533.8	1529.4	1529.4	1532.4
15°	1836.5	1795.3	1729.2	1645.5	1592.6	1547.0	1517.7	1494.2	1485.3	1491.2	1492.7
17.5°	1849.7	1799.7	1716.0	1619.0	1555.9	1505.9	1473.6	1453.0	1441.3	1454.5	1454.5
20°	1858.5	1799.7	1696.9	1585.2	1516.2	1460.4	1429.5	1404.5	1395.7	1411.9	1413.4
22.5°	1871.7	1798.3	1676.3	1551.5	1473.6	1414.8	1384.0	1364.9	1360.5	1378.1	1384.0
25°	1886.4	1801.2	1654.3	1513.3	1426.6	1369.3	1345.8	1337.0	1339.9	1361.9	1369.3
27.5°	1902.6	1807.1	1632.3	1470.6	1375.2	1323.7	1310.5	1314.9	1326.7	1354.6	1363.4
30°	1917.3	1808.6	1601.4	1420.7	1316.4	1267.9	1273.8	1292.9	1310.5	1338.4	1348.7
32.5°	1936.4	1810.0	1569.1	1366.3	1253.2	1217.9	1244.4	1275.2	1292.9	1319.3	1331.1
35°	1983.4	1835.0	1544.1	1313.4	1194.4	1175.3	1219.4	1259.1	1269.4	1292.9	1303.2
37.5°	2037.8	1876.1	1530.9	1259.1	1137.1	1132.7	1188.6	1228.2	1231.2	1245.9	1256.1
40°	2071.5	1893.8	1516.2	1213.5	1085.7	1088.7	1146.0	1176.8	1170.9	1181.2	1188.6
42.5°	2105.3	1899.6	1485.3	1175.3	1037.2	1040.2	1084.3	1106.3	1109.2	1131.3	1141.6
45°	2162.6	1915.8	1451.5	1140.1	993.2	982.9	1009.3	1038.7	1076.9	1119.5	1131.3
47.5°	2239.0	1949.6	1416.3	1097.5	950.6	916.8	927.1	978.5	1018.1	1057.8	1065.2
50°	2316.9	1983.4	1384.0	1046.1	908.0	846.2	850.7	897.7	930.0	960.8	965.3
52.5°	2393.3	2012.8	1356.1	997.6	859.5	762.5	780.1	828.6	850.7	865.3	869.8
55°	2469.7	2037.8	1331.1	956.4	803.6	696.4	712.6	758.1	780.1	787.5	790.4
57.5°	2549.0	2067.1	1312.0	921.2	740.5	637.6	647.9	680.2	700.8	709.6	706.7
60°	2615.1	2092.1	1301.7	884.4	677.3	583.3	580.3	609.7	639.1	647.9	645.0
62.5°	2666.6	2108.3	1285.5	837.4	621.5	528.9	514.2	552.4	583.3	589.1	593.5
65°	2694.5	2109.7	1245.9	777.2	564.2	470.1	459.9	498.1	517.2	523.0	523.0
67.5°	2690.1	2086.2	1168.0	696.4	511.3	417.2	408.4	431.9	459.9	464.3	459.9
70°	2599.0	1989.3	1043.1	611.2	448.1	370.2	354.1	377.6	404.0	387.9	380.5
72.5°	2340.4	1738.0	859.5	517.2	377.6	311.5	304.1	327.6	329.1	332.0	324.7
75°	1846.8	1294.3	643.5	402.6	305.6	261.5	260.0	255.6	261.5	273.3	264.5
77.5°	969.7	646.4	348.2	246.8	221.8	210.1	199.8	198.3	216.0	223.3	214.5
80°	526.0	362.9	199.8	148.4	135.2	136.6	149.9	146.9	166.0	170.4	163.1
82.5°	229.2	171.9	98.4	89.6	89.6	88.2	92.6	102.8	123.4	123.4	98.4
85°	50.0	42.6	38.2	44.1	50.0	50.0	50.0	50.0	35.3	19.1	13.2
87.5°	16.2	16.2	16.2	17.6	19.1	19.1	16.2	11.8	7.3	1.5	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)