

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: P836743

Luminaire Tested: **ARCH3-70-722-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836743
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-70-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10378 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

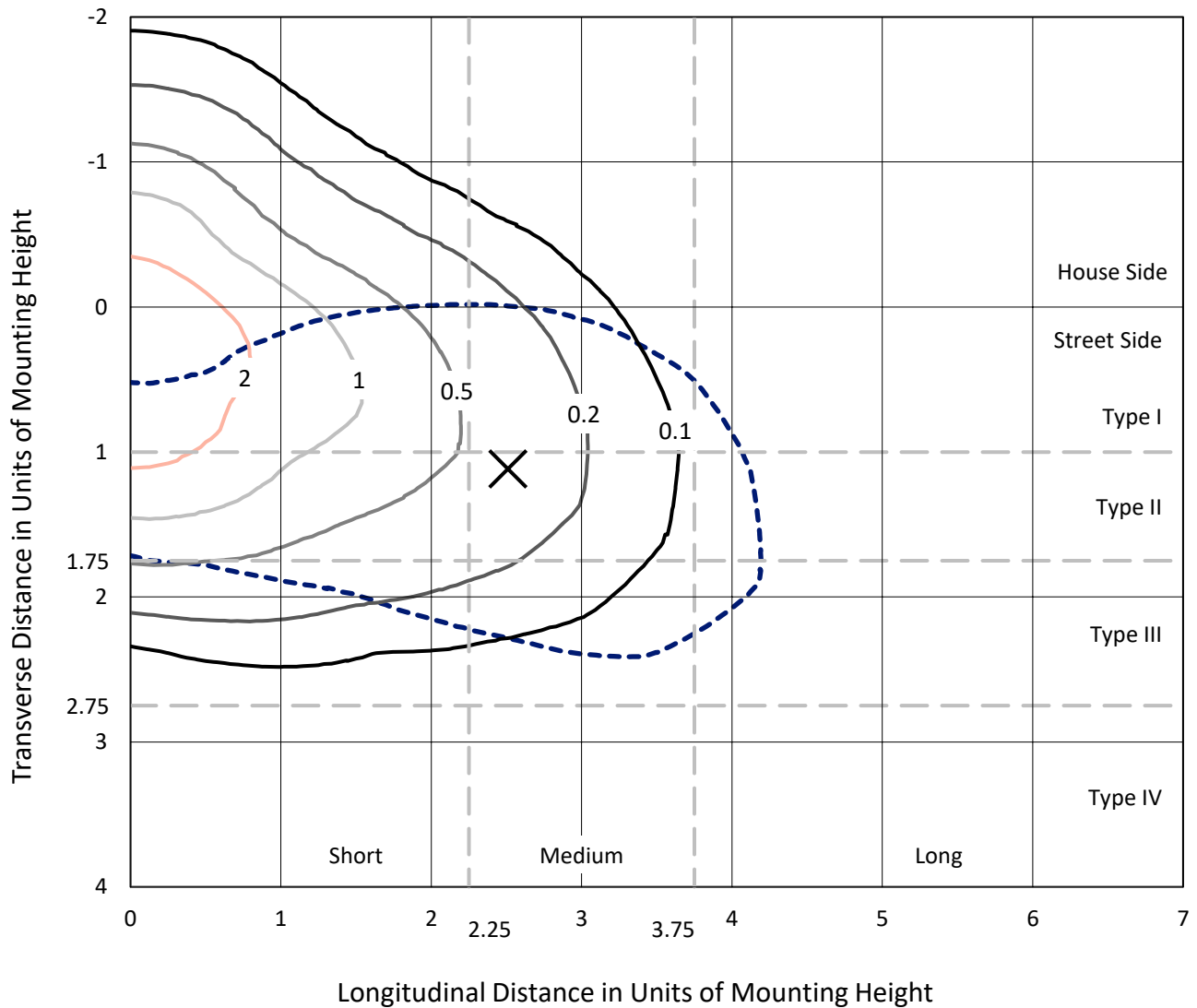
Input Watts (W): 73.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

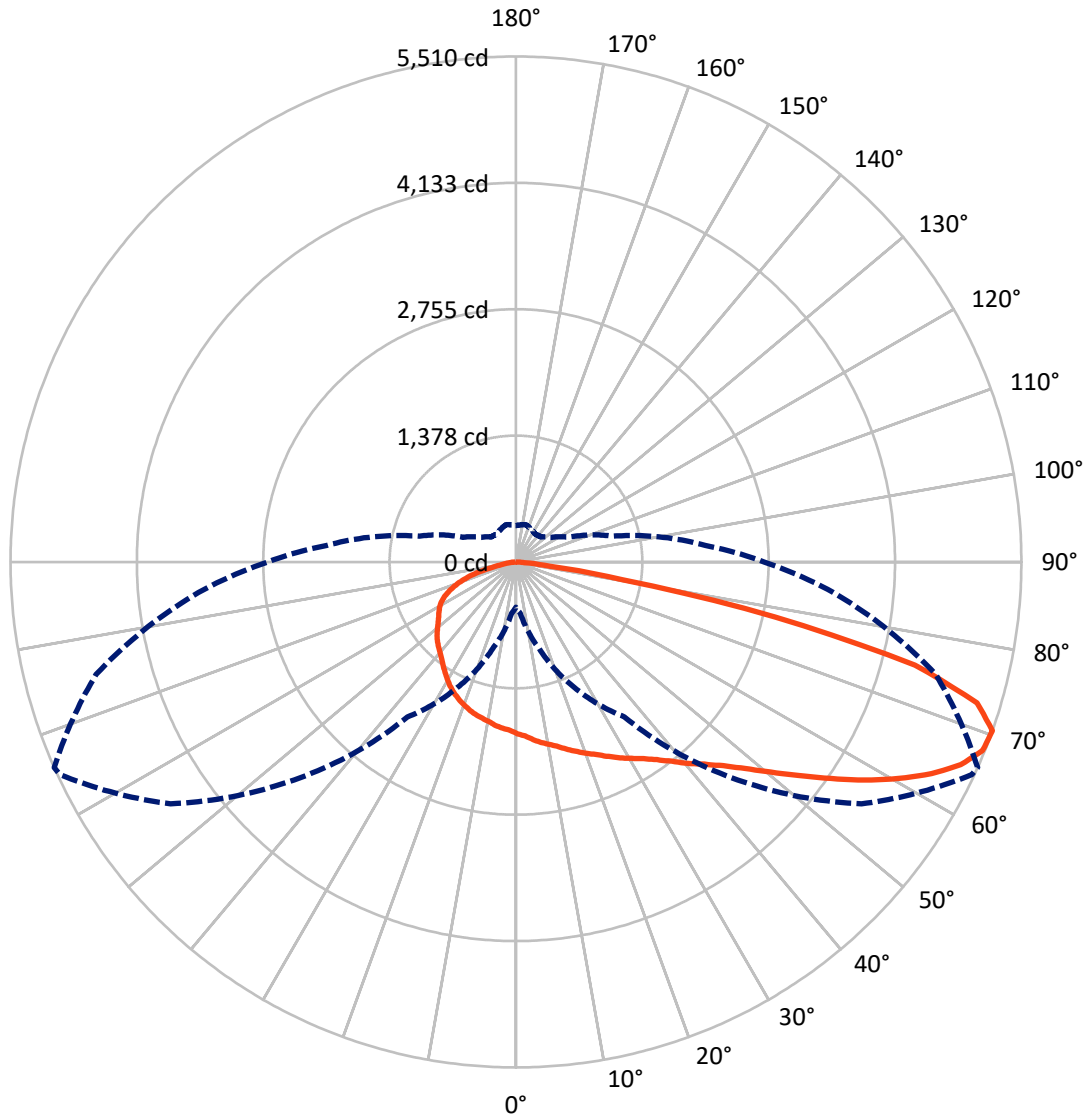
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	2749.9	0.0	2749.9
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	7628.1	0.0	7628.1
	% Fixture	73.5	0.0	73.5
Total	Lumens	10378.0	0.0	10378.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.0	1.7
10°-20°	539.9	5.2
20°-30°	905.0	8.7
30°-40°	1355.1	13.1
40°-50°	1811.7	17.5
50°-60°	2115.2	20.4
60°-70°	2103.3	20.3
70°-80°	1245.2	12.0
80°-90°	122.7	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°	10378.0	100.0
0°-180°	10378.0	100.0

Coefficient of Utilization



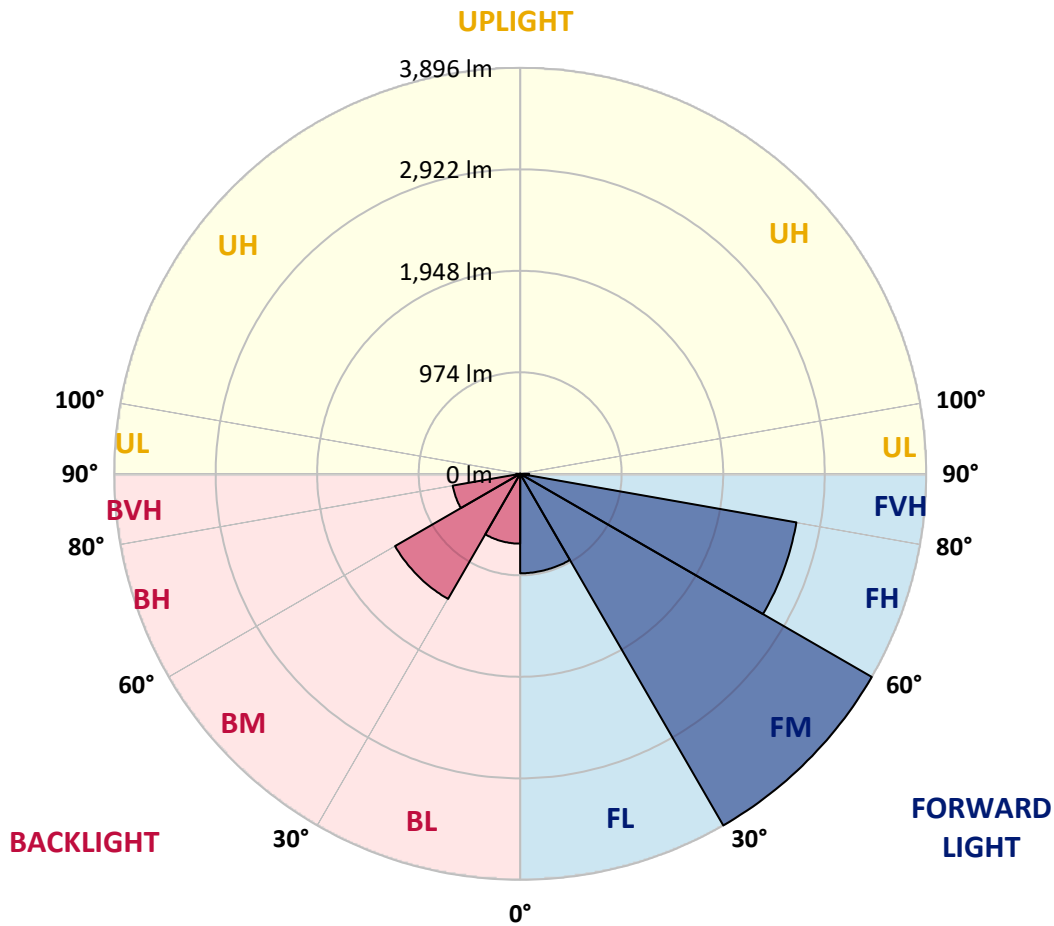
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	954.5	9.2			
FM (30°-60°)	3895.8	37.5			
FH (60°-80°)	2691.6	25.9			G2/5000
FVH (80°-90°)	86.3	0.8			G1/100
BL (0°-30°)	670.3	6.5	B2/1000		
BM (30°-60°)	1386.3	13.4	B2/2500		
BH (60°-80°)	656.9	6.3	B2/1000		G2/1000
BVH (80°-90°)	36.5	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°	1873.0	1873.0	1873.0	1873.0	1873.0	1873.0	1873.0	1873.0	1873.0	1873.0	1873.0
2.5°	1941.9	1938.8	1937.3	1931.1	1917.4	1923.5	1909.7	1900.5	1899.0	1877.6	1865.3
5°	2021.4	2019.9	2016.8	2007.7	1986.2	1989.3	1966.3	1949.5	1944.9	1911.2	1885.2
7.5°	2088.8	2085.7	2084.2	2071.9	2049.0	2047.4	2019.9	1995.4	1987.8	1941.9	1902.1
10°	2140.8	2136.2	2139.3	2127.0	2102.5	2097.9	2062.7	2030.6	2023.0	1964.8	1909.7
12.5°	2185.2	2182.1	2186.7	2176.0	2156.1	2151.5	2116.3	2075.0	2065.8	1998.5	1926.6
15°	2234.1	2223.4	2232.6	2228.0	2214.2	2212.7	2180.6	2134.7	2122.4	2041.3	1952.6
17.5°	2260.1	2254.0	2264.7	2266.3	2260.1	2270.9	2240.2	2185.2	2174.4	2081.1	1975.5
20°	2278.5	2269.3	2281.6	2290.7	2295.3	2316.8	2292.3	2238.7	2226.5	2119.4	1996.9
22.5°	2341.2	2321.3	2322.9	2329.0	2332.1	2362.7	2347.4	2295.3	2283.1	2166.8	2023.0
25°	2498.9	2459.1	2433.1	2414.7	2393.3	2419.3	2410.1	2359.6	2348.9	2223.4	2055.1
27.5°	2743.7	2693.2	2641.2	2587.6	2503.4	2492.7	2477.4	2431.5	2419.3	2280.0	2087.2
30°	3022.2	2971.7	2910.5	2824.8	2667.2	2584.5	2549.4	2498.9	2485.1	2330.5	2117.8
32.5°	3299.2	3254.8	3193.6	3089.5	2864.6	2696.3	2621.3	2569.2	2555.5	2385.6	2154.6
35°	3514.9	3487.4	3447.6	3317.5	3060.4	2827.9	2725.3	2662.6	2647.3	2472.8	2221.9
37.5°	3689.4	3669.5	3635.8	3499.6	3202.8	2959.5	2844.7	2772.8	2755.9	2567.7	2293.8
40°	3946.4	3894.4	3866.9	3669.5	3326.7	3078.8	2979.3	2904.4	2886.0	2668.7	2352.0
42.5°	4165.3	4127.0	4093.3	3821.0	3444.5	3181.3	3106.4	3037.5	3013.0	2768.2	2414.7
45°	4202.0	4217.3	4200.5	3895.9	3631.2	3282.3	3234.9	3190.5	3167.6	2902.8	2509.6
47.5°	4203.5	4203.5	4104.1	3938.8	3862.3	3395.6	3372.6	3387.9	3363.4	3074.2	2622.8
50°	4093.3	4113.2	4061.2	3949.5	3923.5	3508.8	3540.9	3623.6	3599.1	3256.3	2745.2
52.5°	3865.3	3931.1	3929.6	3932.7	3834.7	3605.2	3718.4	3906.7	3865.3	3461.4	2875.3
55°	3462.9	3594.5	3712.3	3813.3	3758.2	3663.4	3935.7	4208.1	4165.3	3690.9	3006.9
57.5°	3118.6	3202.8	3349.7	3635.8	3667.9	3713.9	4139.3	4523.3	4485.1	3944.9	3144.6
60°	2725.3	2841.6	2988.5	3395.6	3557.8	3779.7	4362.7	4830.9	4794.2	4202.0	3277.7
62.5°	2120.9	2270.9	2564.7	3026.8	3397.1	3821.0	4538.6	5101.8	5084.9	4445.3	3397.1
65°	1478.2	1611.3	2023.0	2573.8	3141.5	3802.6	4679.4	5343.5	5328.2	4644.2	3481.3
67.5°	863.0	1017.6	1482.8	2071.9	2690.1	3675.6	4725.3	5485.8	5485.8	4765.1	3504.2
70°	492.7	564.7	977.8	1510.3	2062.7	3325.2	4596.8	5484.3	5510.3	4737.6	3409.3
72.5°	344.3	376.4	658.0	1016.1	1398.6	2690.1	4260.1	5219.6	5254.8	4477.4	3084.9
75°	267.8	290.7	463.7	693.2	881.4	1827.1	3524.1	4400.9	4494.3	3816.4	2494.3
77.5°	203.5	220.4	270.8	433.1	564.7	1049.7	2325.9	2886.0	2892.1	2336.7	1337.4
80°	148.4	165.3	180.6	264.7	299.9	491.2	878.3	1205.8	1172.2	1130.8	723.8
82.5°	88.8	105.6	110.2	143.8	146.9	209.6	307.6	388.7	373.4	497.3	339.7
85°	38.3	53.6	56.6	65.8	62.7	85.7	122.4	102.5	91.8	105.6	73.5
87.5°	9.2	15.3	15.3	16.8	13.8	21.4	23.0	16.8	15.3	18.4	18.4
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°	1873.0	1873.0	1873.0	1873.0	1873.0	1873.0	1873.0	1873.0	1873.0	1873.0	1873.0
2.5°	1862.3	1857.7	1859.2	1833.2	1825.6	1817.9	1813.3	1810.3	1807.2	1811.8	1816.4
5°	1876.1	1865.3	1853.1	1814.8	1799.5	1782.7	1770.5	1759.8	1755.2	1755.2	1759.8
7.5°	1886.8	1868.4	1842.4	1791.9	1764.3	1741.4	1721.5	1707.7	1700.1	1700.1	1704.7
10°	1888.3	1862.3	1821.0	1759.8	1723.0	1689.4	1666.4	1651.1	1640.4	1640.4	1643.5
12.5°	1897.5	1862.3	1808.7	1735.3	1689.4	1648.0	1620.5	1597.6	1593.0	1593.0	1596.0
15°	1912.8	1869.9	1801.1	1713.8	1658.8	1611.3	1580.7	1556.2	1547.1	1553.2	1554.7
17.5°	1926.6	1874.5	1787.3	1686.3	1620.5	1568.5	1534.8	1513.4	1501.1	1514.9	1514.9
20°	1935.7	1874.5	1767.4	1651.1	1579.2	1521.0	1488.9	1462.9	1453.7	1470.5	1472.1
22.5°	1949.5	1873.0	1746.0	1615.9	1534.8	1473.6	1441.5	1421.6	1417.0	1435.3	1441.5
25°	1964.8	1876.1	1723.0	1576.1	1485.8	1426.2	1401.7	1392.5	1395.6	1418.5	1426.2
27.5°	1981.6	1882.2	1700.1	1531.8	1432.3	1378.7	1365.0	1369.5	1381.8	1410.9	1420.0
30°	1996.9	1883.7	1667.9	1479.7	1371.1	1320.6	1326.7	1346.6	1365.0	1394.0	1404.7
32.5°	2016.8	1885.2	1634.3	1423.1	1305.3	1268.6	1296.1	1328.2	1346.6	1374.1	1386.4
35°	2065.8	1911.2	1608.3	1368.0	1244.1	1224.2	1270.1	1311.4	1322.1	1346.6	1357.3
37.5°	2122.4	1954.1	1594.5	1311.4	1184.4	1179.8	1238.0	1279.3	1282.3	1297.6	1308.3
40°	2157.6	1972.5	1579.2	1264.0	1130.8	1133.9	1193.6	1225.7	1219.6	1230.3	1238.0
42.5°	2192.8	1978.6	1547.1	1224.2	1080.3	1083.4	1129.3	1152.3	1155.3	1178.3	1189.0
45°	2252.5	1995.4	1511.9	1187.5	1034.4	1023.7	1051.3	1081.9	1121.7	1166.0	1178.3
47.5°	2332.1	2030.6	1475.1	1143.1	990.1	954.9	965.6	1019.1	1060.4	1101.8	1109.4
50°	2413.2	2065.8	1441.5	1089.5	945.7	881.4	886.0	935.0	968.6	1000.8	1005.4
52.5°	2492.7	2096.4	1412.4	1039.0	895.2	794.2	812.5	863.0	886.0	901.3	905.9
55°	2572.3	2122.4	1386.4	996.2	837.0	725.3	742.2	789.6	812.5	820.2	823.3
57.5°	2654.9	2153.0	1366.5	959.4	771.2	664.1	674.8	708.5	729.9	739.1	736.0
60°	2723.8	2179.0	1355.8	921.2	705.4	607.5	604.4	635.0	665.6	674.8	671.8
62.5°	2777.4	2195.9	1338.9	872.2	647.3	550.9	535.6	575.4	607.5	613.6	618.2
65°	2806.4	2197.4	1297.6	809.5	587.6	489.7	479.0	518.7	538.6	544.8	544.8
67.5°	2801.8	2172.9	1216.5	725.3	532.5	434.6	425.4	449.9	479.0	483.6	479.0
70°	2707.0	2071.9	1086.5	636.6	466.7	385.6	368.8	393.3	420.8	404.0	396.3
72.5°	2437.6	1810.3	895.2	538.6	393.3	324.4	316.8	341.2	342.8	345.8	338.2
75°	1923.5	1348.1	670.2	419.3	318.3	272.4	270.8	266.3	272.4	284.6	275.4
77.5°	1009.9	673.3	362.7	257.1	231.1	218.8	208.1	206.6	224.9	232.6	223.4
80°	547.8	378.0	208.1	154.6	140.8	142.3	156.1	153.0	172.9	177.5	169.9
82.5°	238.7	179.0	102.5	93.3	93.3	91.8	96.4	107.1	128.5	128.5	102.5
85°	52.0	44.4	39.8	45.9	52.0	52.0	52.0	52.0	36.7	19.9	13.8
87.5°	16.8	16.8	16.8	18.4	19.9	19.9	16.8	12.2	7.7	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)