

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: P800247

Luminaire Tested: **ARCH2-90-722-U-T3**

Issue Date: 4/4/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P800247  
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: ARCH2-90-722-U-T3  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 695mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

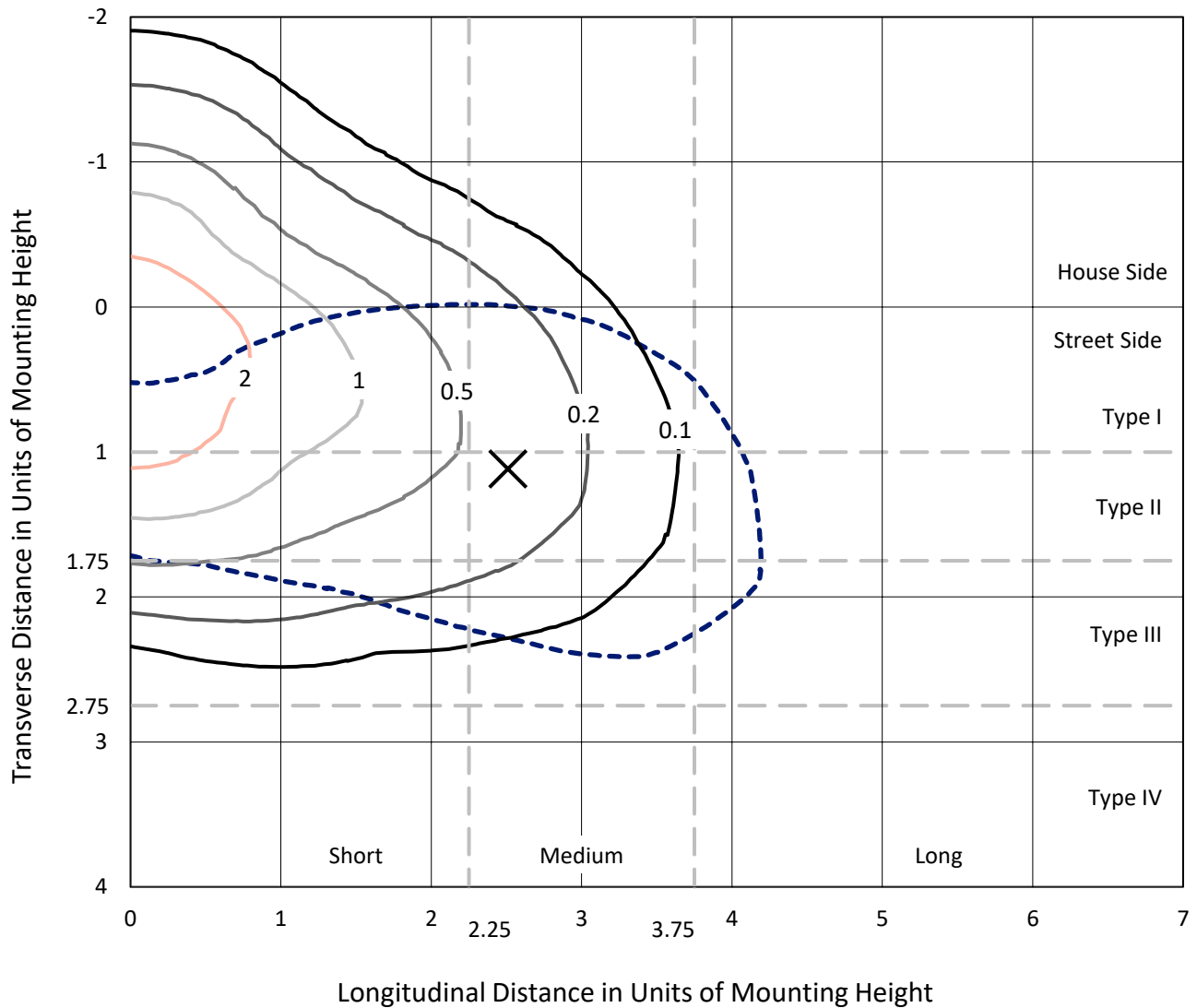
Lumens per Lamp: N/A  
Luminaire Lumens: 10386 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 93.7  
Input Voltage (V): NR  
Input Current (Ain): 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

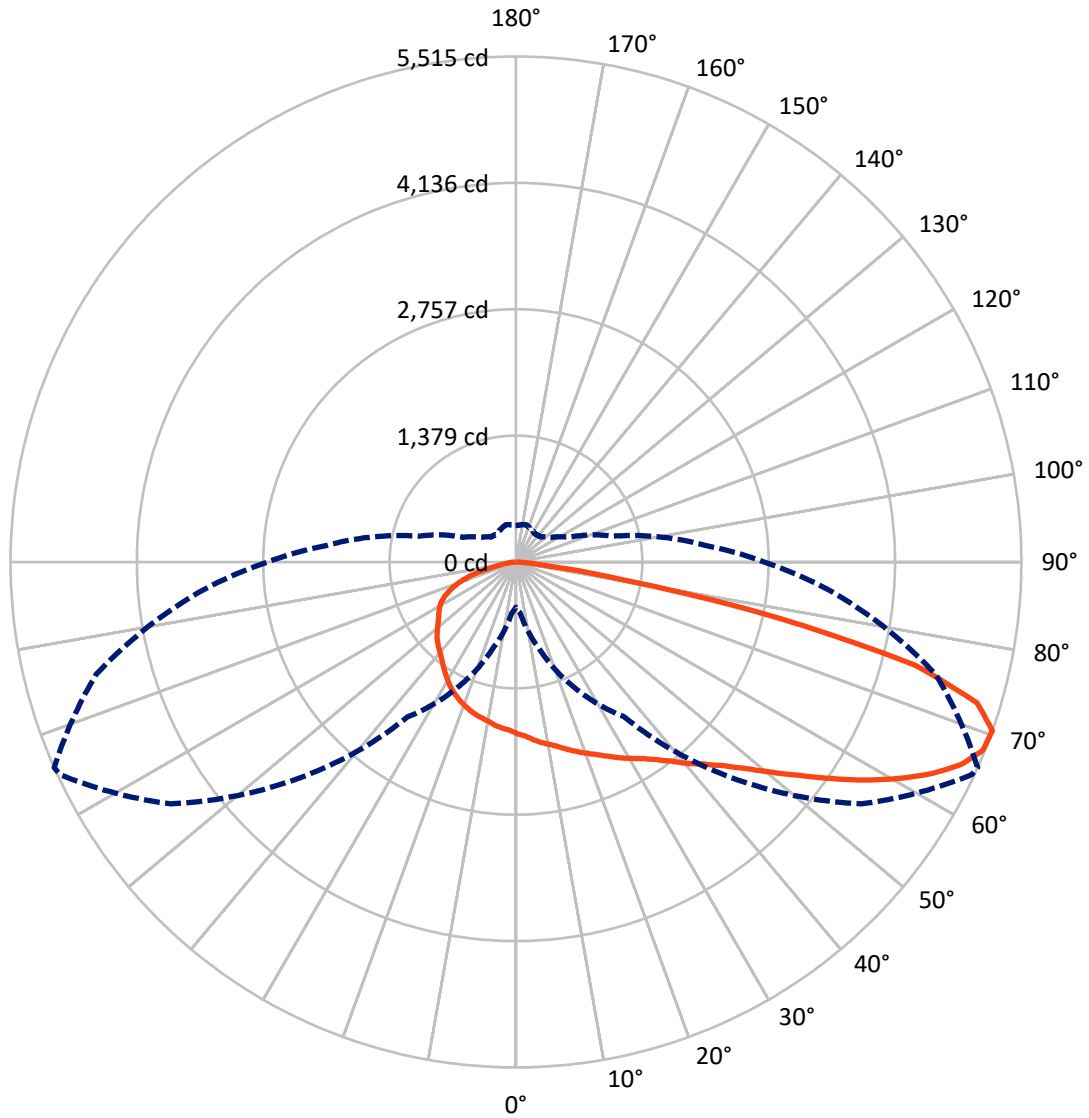
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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
<b>House Side</b>	Lumens	2752.1	0.0	2752.1
	% Fixture	26.5	0.0	26.5
<b>Street Side</b>	Lumens	7633.9	0.0	7633.9
	% Fixture	73.5	0.0	73.5
<b>Total</b>	Lumens	10386.0	0.0	10386.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.1	1.7
10°-20°	540.3	5.2
20°-30°	905.7	8.7
30°-40°	1356.1	13.1
40°-50°	1813.1	17.5
50°-60°	2116.9	20.4
60°-70°	2104.9	20.3
70°-80°	1246.1	12.0
80°-90°	122.8	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°	10386.0	100.0
0°-180°	10386.0	100.0



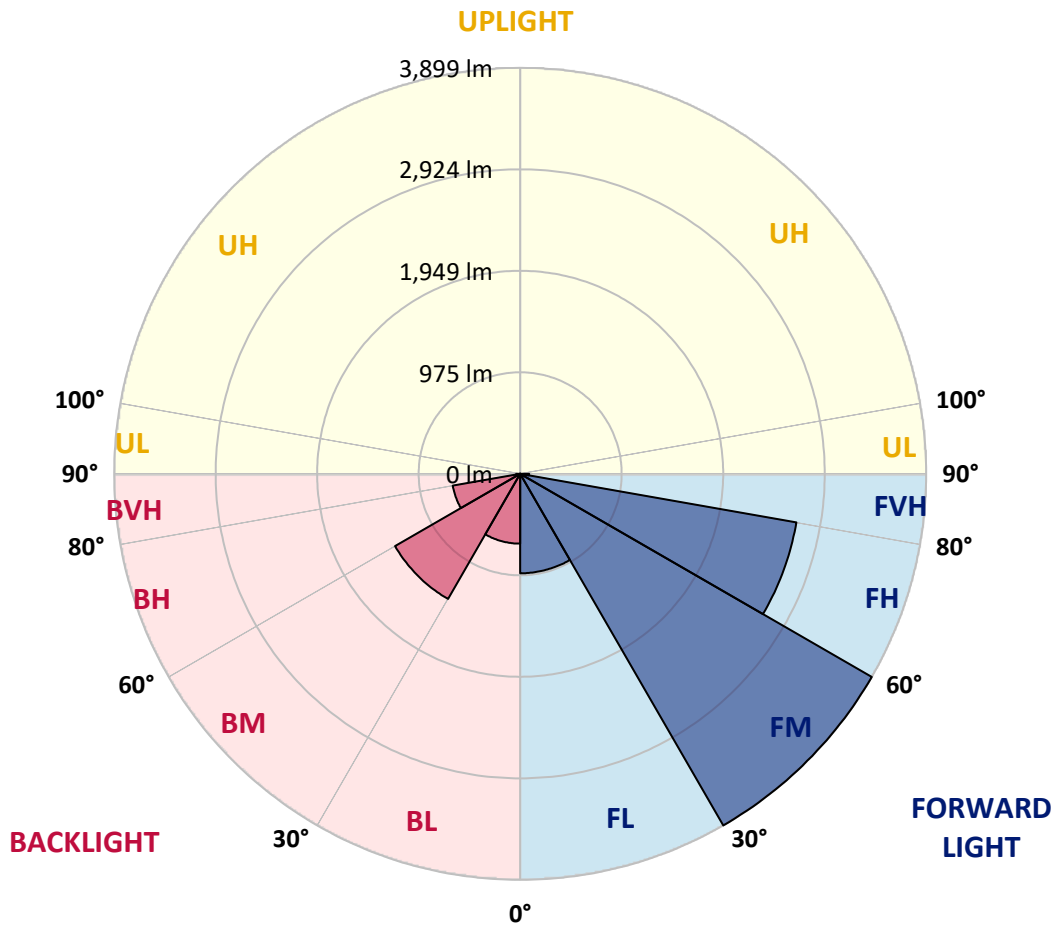
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	955.2	9.2			
FM (30°-60°)	3898.8	37.5			
FH (60°-80°)	2693.6	25.9			G2/5000
FVH (80°-90°)	86.3	0.8			G1/100
BL (0°-30°)	670.8	6.5	B2/1000		
BM (30°-60°)	1387.3	13.4	B2/2500		
BH (60°-80°)	657.4	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°	1874.4	1874.4	1874.4	1874.4	1874.4	1874.4	1874.4	1874.4	1874.4	1874.4	1874.4
2.5°	1943.3	1940.3	1938.8	1932.6	1918.8	1925.0	1911.2	1902.0	1900.5	1879.0	1866.8
5°	2023.0	2021.5	2018.4	2009.2	1987.8	1990.8	1967.9	1951.0	1946.4	1912.7	1886.7
7.5°	2090.4	2087.3	2085.8	2073.5	2050.5	2049.0	2021.5	1996.9	1989.3	1943.3	1903.5
10°	2142.4	2137.8	2140.9	2128.6	2104.1	2099.6	2064.3	2032.2	2024.5	1966.3	1911.2
12.5°	2186.8	2183.8	2188.4	2177.7	2157.7	2153.2	2117.9	2076.6	2067.4	2000.0	1928.0
15°	2235.8	2225.1	2234.3	2229.7	2215.9	2214.4	2182.2	2136.3	2124.1	2042.9	1954.1
17.5°	2261.9	2255.8	2266.5	2268.0	2261.9	2272.6	2242.0	2186.8	2176.1	2082.7	1977.0
20°	2280.3	2271.1	2283.3	2292.5	2297.1	2318.5	2294.0	2240.4	2228.2	2121.0	1998.5
22.5°	2343.0	2323.1	2324.7	2330.8	2333.9	2364.5	2349.2	2297.1	2284.9	2168.5	2024.5
25°	2500.8	2461.0	2434.9	2416.6	2395.1	2421.1	2412.0	2361.4	2350.7	2225.1	2056.7
27.5°	2745.8	2695.3	2643.2	2589.6	2505.4	2494.7	2479.3	2433.4	2421.1	2281.8	2088.8
30°	3024.5	2974.0	2912.7	2827.0	2669.2	2586.5	2551.3	2500.8	2487.0	2332.3	2119.5
32.5°	3301.7	3257.3	3196.0	3091.9	2866.8	2698.3	2623.3	2571.2	2557.4	2387.5	2156.2
35°	3517.6	3490.1	3450.2	3320.1	3062.8	2830.0	2727.4	2664.6	2649.3	2474.7	2223.6
37.5°	3692.2	3672.3	3638.6	3502.3	3205.2	2961.7	2846.9	2774.9	2758.1	2569.7	2295.6
40°	3949.5	3897.4	3869.9	3672.3	3329.3	3081.2	2981.6	2906.6	2888.2	2670.8	2353.8
42.5°	4168.5	4130.2	4096.5	3823.9	3447.2	3183.8	3108.7	3039.8	3015.3	2770.3	2416.6
45°	4205.2	4220.5	4203.7	3899.0	3634.0	3284.9	3237.4	3193.0	3170.0	2905.1	2511.5
47.5°	4206.8	4206.8	4107.2	3941.8	3865.3	3398.2	3375.2	3390.5	3366.0	3076.6	2624.8
50°	4096.5	4116.4	4064.3	3952.5	3926.5	3511.5	3543.7	3626.4	3601.9	3258.8	2747.3
52.5°	3868.3	3934.2	3932.6	3935.7	3837.7	3608.0	3721.3	3909.7	3868.3	3464.0	2877.5
55°	3465.6	3597.3	3715.2	3816.3	3761.1	3666.2	3938.8	4211.4	4168.5	3693.7	3009.2
57.5°	3121.0	3205.2	3352.2	3638.6	3670.8	3716.7	4142.4	4526.8	4488.5	3948.0	3147.0
60°	2727.4	2843.8	2990.8	3398.2	3560.5	3782.6	4366.0	4834.6	4797.9	4205.2	3280.3
62.5°	2122.5	2272.6	2566.6	3029.1	3399.7	3823.9	4542.1	5105.7	5088.9	4448.7	3399.7
65°	1479.3	1612.6	2024.5	2575.8	3144.0	3805.5	4683.0	5347.7	5332.3	4647.8	3483.9
67.5°	863.7	1018.4	1483.9	2073.5	2692.2	3678.4	4729.0	5490.1	5490.1	4768.8	3506.9
70°	493.1	565.1	978.6	1511.5	2064.3	3327.7	4600.3	5488.5	5514.6	4741.2	3412.0
72.5°	344.6	376.7	658.5	1016.9	1399.7	2692.2	4263.4	5223.6	5258.8	4480.9	3087.3
75°	268.0	291.0	464.0	693.7	882.1	1828.5	3526.8	4404.3	4497.7	3819.3	2496.2
77.5°	203.7	220.5	271.1	433.4	565.1	1050.5	2327.7	2888.2	2894.4	2338.5	1338.4
80°	148.5	165.4	180.7	264.9	300.2	491.6	879.0	1206.7	1173.1	1131.7	724.4
82.5°	88.8	105.7	110.3	144.0	147.0	209.8	307.8	389.0	373.7	497.7	340.0
85°	38.3	53.6	56.7	65.9	62.8	85.8	122.5	102.6	91.9	105.7	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°	1874.4	1874.4	1874.4	1874.4	1874.4	1874.4	1874.4	1874.4	1874.4	1874.4	1874.4
2.5°	1863.7	1859.1	1860.7	1834.6	1827.0	1819.3	1814.7	1811.6	1808.6	1813.2	1817.8
5°	1877.5	1866.8	1854.5	1816.2	1800.9	1784.1	1771.8	1761.1	1756.5	1756.5	1761.1
7.5°	1888.2	1869.8	1843.8	1793.3	1765.7	1742.7	1722.8	1709.0	1701.4	1701.4	1706.0
10°	1889.8	1863.7	1822.4	1761.1	1724.4	1690.7	1667.7	1652.4	1641.7	1641.7	1644.7
12.5°	1898.9	1863.7	1810.1	1736.6	1690.7	1649.3	1621.8	1598.8	1594.2	1594.2	1597.3
15°	1914.3	1871.4	1802.5	1715.2	1660.0	1612.6	1581.9	1557.4	1548.2	1554.4	1555.9
17.5°	1928.0	1876.0	1788.7	1687.6	1621.8	1569.7	1536.0	1514.6	1502.3	1516.1	1516.1
20°	1937.2	1876.0	1768.8	1652.4	1580.4	1522.2	1490.1	1464.0	1454.8	1471.7	1473.2
22.5°	1951.0	1874.4	1747.3	1617.2	1536.0	1474.7	1442.6	1422.7	1418.1	1436.5	1442.6
25°	1966.3	1877.5	1724.4	1577.3	1487.0	1427.3	1402.8	1393.6	1396.6	1419.6	1427.3
27.5°	1983.2	1883.6	1701.4	1532.9	1433.4	1379.8	1366.0	1370.6	1382.9	1412.0	1421.1
30°	1998.5	1885.2	1669.2	1480.9	1372.1	1321.6	1327.7	1347.6	1366.0	1395.1	1405.8
32.5°	2018.4	1886.7	1635.5	1424.2	1306.3	1269.5	1297.1	1329.3	1347.6	1375.2	1387.5
35°	2067.4	1912.7	1609.5	1369.1	1245.0	1225.1	1271.1	1312.4	1323.1	1347.6	1358.4
37.5°	2124.1	1955.6	1595.7	1312.4	1185.3	1180.7	1238.9	1280.3	1283.3	1298.6	1309.3
40°	2159.3	1974.0	1580.4	1264.9	1131.7	1134.8	1194.5	1226.7	1220.5	1231.2	1238.9
42.5°	2194.5	1980.1	1548.2	1225.1	1081.2	1084.2	1130.2	1153.1	1156.2	1179.2	1189.9
45°	2254.2	1996.9	1513.0	1188.4	1035.2	1024.5	1052.1	1082.7	1122.5	1166.9	1179.2
47.5°	2333.9	2032.2	1476.3	1144.0	990.8	955.6	966.3	1019.9	1061.3	1102.6	1110.3
50°	2415.0	2067.4	1442.6	1090.4	946.4	882.1	886.7	935.7	969.4	1001.5	1006.1
52.5°	2494.7	2098.0	1413.5	1039.8	895.9	794.8	813.2	863.7	886.7	902.0	906.6
55°	2574.3	2124.1	1387.5	996.9	837.7	725.9	742.7	790.2	813.2	820.8	823.9
57.5°	2657.0	2154.7	1367.5	960.2	771.8	664.6	675.3	709.0	730.5	739.7	736.6
60°	2725.9	2180.7	1356.8	921.9	706.0	608.0	604.9	635.5	666.2	675.3	672.3
62.5°	2779.5	2197.6	1340.0	872.9	647.8	551.3	536.0	575.8	608.0	614.1	618.7
65°	2808.6	2199.1	1298.6	810.1	588.1	490.0	479.3	519.1	539.1	545.2	545.2
67.5°	2804.0	2174.6	1217.5	725.9	532.9	434.9	425.7	450.2	479.3	483.9	479.3
70°	2709.1	2073.5	1087.3	637.1	467.1	385.9	369.1	393.6	421.1	404.3	396.6
72.5°	2439.5	1811.6	895.9	539.1	393.6	324.7	317.0	341.5	343.0	346.1	338.4
75°	1925.0	1349.2	670.8	419.6	318.5	272.6	271.1	266.5	272.6	284.8	275.7
77.5°	1010.7	673.8	362.9	257.3	231.2	219.0	208.3	206.7	225.1	232.8	223.6
80°	548.2	378.3	208.3	154.7	140.9	142.4	156.2	153.1	173.0	177.6	170.0
82.5°	238.9	179.2	102.6	93.4	93.4	91.9	96.5	107.2	128.6	128.6	102.6
85°	52.1	44.4	39.8	45.9	52.1	52.1	52.1	52.1	36.8	19.9	13.8
87.5°	16.8	16.8	16.8	18.4	19.9	19.9	16.8	12.3	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)