

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: P399532

Luminaire Tested: **ARCH-L-PA3-150-827-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399532
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-150-827-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17432 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

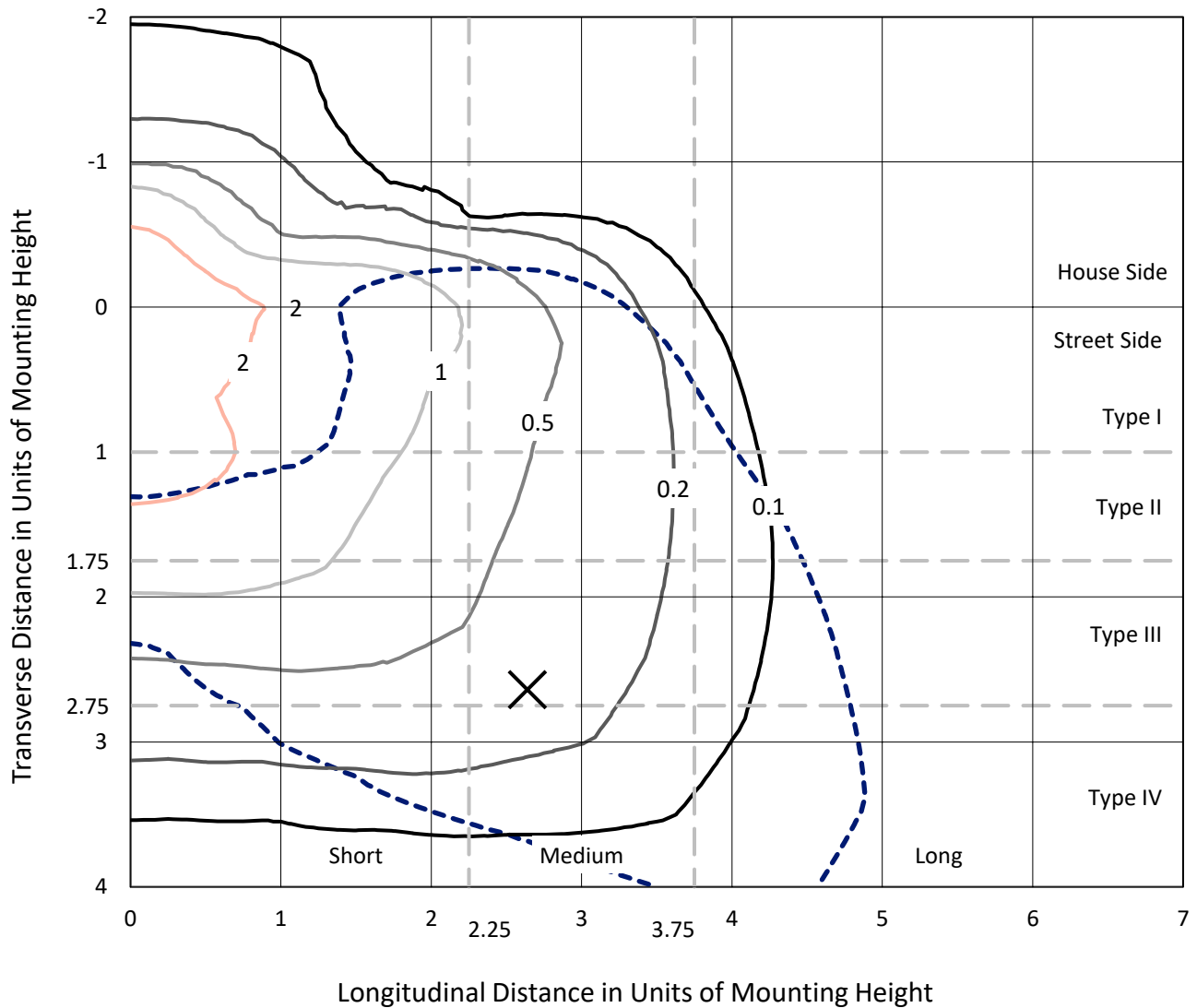
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

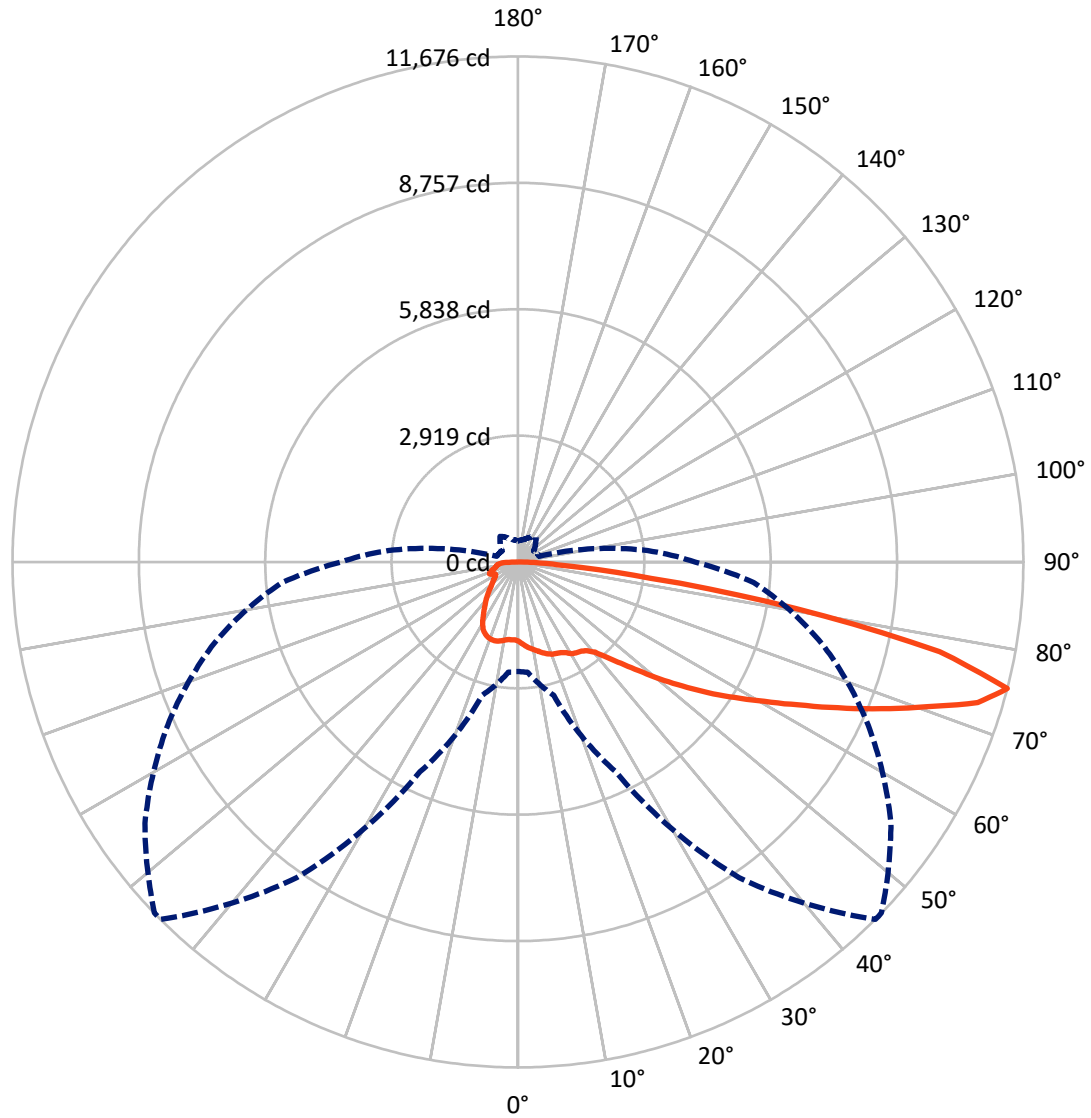
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3852.4	0.0	3852.4
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	13579.6	0.0	13579.6
	% Fixture	77.9	0.0	77.9
Total	Lumens	17432.0	0.0	17432.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.1	1.0
10°-20°	576.2	3.3
20°-30°	982.3	5.6
30°-40°	1376.3	7.9
40°-50°	2022.0	11.6
50°-60°	3218.1	18.5
60°-70°	4577.8	26.3
70°-80°	3833.0	22.0
80°-90°	665.2	3.8
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°	17432.0	100.0
0°-180°	17432.0	100.0

Coefficient of Utilization



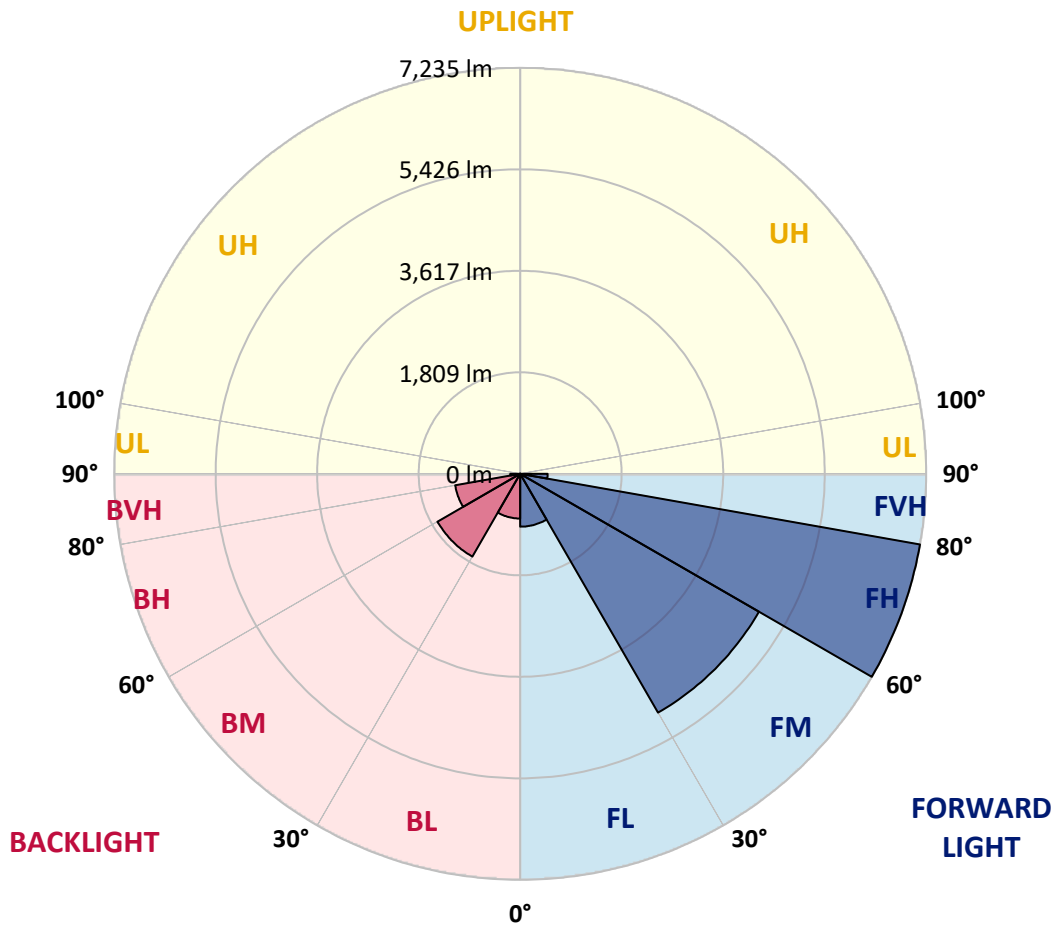
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	942.3	5.4			
FM (30°-60°)	4913.5	28.2			
FH (60°-80°)	7234.7	41.5			G3/7500
FVH (80°-90°)	489.0	2.8			G3/500
BL (0°-30°)	797.3	4.6	B2/1000		
BM (30°-60°)	1702.9	9.8	B2/2500		
BH (60°-80°)	1176.0	6.7	B3/2500		G3/2500
BVH (80°-90°)	176.2	1.0			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1830.7	1830.7	1830.7	1830.7	1830.7	1830.7	1830.7	1830.7	1830.7	1830.7	1830.7
2.5°	1935.6	1926.2	1921.6	1921.6	1902.9	1891.3	1889.0	1872.7	1858.7	1844.7	1833.1
5°	2047.4	2040.4	2026.4	2014.7	1989.1	1956.5	1951.9	1916.9	1882.0	1849.4	1821.4
7.5°	2149.8	2135.9	2119.6	2096.3	2054.3	2010.1	2003.1	1954.2	1905.3	1856.4	1819.1
10°	2236.0	2222.0	2198.8	2166.1	2112.6	2059.0	2052.0	2000.8	1949.5	1891.3	1837.7
12.5°	2317.5	2305.9	2271.0	2226.7	2163.8	2114.9	2107.9	2063.7	2010.1	1944.9	1875.0
15°	2387.4	2375.8	2338.5	2287.3	2215.1	2177.8	2168.5	2126.5	2073.0	2003.1	1930.9
17.5°	2422.4	2422.4	2382.8	2326.9	2259.3	2231.4	2224.4	2173.1	2124.2	2056.7	1984.5
20°	2434.0	2438.7	2410.7	2343.2	2284.9	2273.3	2266.3	2224.4	2168.5	2103.3	2035.7
22.5°	2441.0	2450.3	2427.0	2350.2	2301.2	2294.2	2289.6	2261.6	2217.4	2154.5	2087.0
25°	2464.3	2464.3	2448.0	2361.8	2322.2	2319.9	2319.9	2303.6	2273.3	2219.7	2152.2
27.5°	2499.2	2496.9	2475.9	2387.4	2368.8	2375.8	2373.4	2371.1	2350.2	2296.6	2224.4
30°	2557.4	2557.4	2534.2	2438.7	2427.0	2457.3	2459.6	2464.3	2431.7	2347.8	2289.6
32.5°	2646.0	2636.6	2613.3	2489.9	2471.3	2499.2	2503.9	2501.5	2473.6	2394.4	2366.5
35°	2918.5	2897.5	2813.7	2604.0	2510.9	2527.2	2529.5	2541.1	2545.8	2482.9	2468.9
37.5°	3396.0	3368.0	3239.9	2874.2	2636.6	2597.0	2594.7	2625.0	2650.6	2594.7	2594.7
40°	3915.4	3892.1	3817.5	3340.1	2869.6	2739.1	2729.8	2757.8	2790.4	2750.8	2762.4
42.5°	4362.6	4381.2	4388.2	3833.8	3218.9	3004.7	2979.0	2939.4	2990.7	2955.7	3002.3
45°	4698.0	4688.7	4816.8	4339.3	3670.8	3337.7	3302.8	3195.6	3260.9	3258.5	3361.0
47.5°	5054.3	5038.0	5091.6	4814.4	4185.6	3745.3	3691.8	3533.4	3631.2	3698.7	3868.8
50°	5392.1	5396.7	5415.4	5189.4	4744.6	4241.5	4173.9	3961.9	4101.7	4243.8	4483.7
52.5°	5832.3	5799.7	5776.4	5627.3	5371.1	4758.5	4714.3	4472.0	4667.7	4835.4	5154.5
55°	6216.6	6195.6	6181.7	6174.7	5895.2	5329.2	5282.6	5031.0	5312.9	5431.7	5902.2
57.5°	6626.5	6614.9	6689.4	6808.2	6696.4	5909.1	5860.2	5618.0	5932.4	6016.3	6712.7
60°	6927.0	6934.0	7139.0	7441.8	7364.9	6538.0	6479.8	6265.5	6535.7	6610.2	7523.3
62.5°	6929.3	6999.2	7474.4	8017.1	8105.6	7262.4	7194.9	6961.9	7155.3	7155.3	8250.0
65°	6267.8	6347.0	7413.8	8159.1	8855.6	8124.2	8059.0	7693.3	7765.5	7667.7	8932.4
67.5°	5608.7	5701.9	6705.7	8170.8	9382.0	9046.6	8969.7	8424.7	8301.2	8054.3	9409.9
70°	5170.8	5236.0	6074.5	8019.4	9698.7	10010.8	9952.6	9118.8	8722.8	8378.1	9309.8
72.5°	4353.3	4330.0	5131.2	7299.7	9875.8	11105.6	11056.7	9873.4	9088.5	8224.4	7940.2
75°	2527.2	2555.1	3184.0	5347.8	8902.2	11676.2	11671.6	10518.6	8927.8	7264.7	5471.3
77.5°	729.0	750.0	1045.8	2350.2	5629.6	9959.6	10278.7	9619.5	7546.6	5177.8	2837.0
80°	319.1	335.4	454.2	782.6	2424.7	6505.4	6784.9	6505.4	4551.2	2375.8	1113.4
82.5°	188.7	200.3	295.8	484.5	1162.3	3095.5	3472.8	3032.6	1963.5	1008.5	461.2
85°	107.1	111.8	170.0	307.5	731.4	1083.1	1215.8	1139.0	957.3	573.0	242.2
87.5°	48.9	51.2	83.9	144.4	409.9	365.7	379.7	503.1	554.3	349.4	121.1
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°	1830.7	1830.7	1830.7	1830.7	1830.7	1830.7	1830.7	1830.7	1830.7	1830.7	1830.7
2.5°	1828.4	1821.4	1807.4	1802.8	1795.8	1798.1	1800.5	1800.5	1802.8	1795.8	1795.8
5°	1809.8	1798.1	1784.2	1784.2	1784.2	1802.8	1819.1	1828.4	1833.1	1833.1	1828.4
7.5°	1802.8	1788.8	1772.5	1777.2	1781.8	1805.1	1835.4	1865.7	1875.0	1875.0	1870.3
10°	1816.8	1802.8	1791.1	1798.1	1809.8	1828.4	1851.7	1879.7	1902.9	1905.3	1902.9
12.5°	1849.4	1833.1	1821.4	1835.4	1849.4	1861.0	1872.7	1884.3	1914.6	1919.3	1919.3
15°	1902.9	1886.6	1872.7	1884.3	1889.0	1889.0	1889.0	1889.0	1919.3	1923.9	1923.9
17.5°	1956.5	1942.5	1928.6	1930.9	1916.9	1898.3	1891.3	1889.0	1905.3	1919.3	1921.6
20°	2007.8	1996.1	1982.1	1958.8	1923.9	1889.0	1877.3	1877.3	1886.6	1907.6	1907.6
22.5°	2063.7	2049.7	2026.4	1972.8	1914.6	1865.7	1854.0	1861.0	1872.7	1900.6	1898.3
25°	2126.5	2107.9	2068.3	1968.2	1884.3	1826.1	1828.4	1849.4	1870.3	1900.6	1900.6
27.5°	2196.4	2170.8	2091.6	1930.9	1816.8	1760.9	1781.8	1830.7	1861.0	1893.6	1898.3
30°	2273.3	2250.0	2110.2	1865.7	1707.3	1656.1	1707.3	1786.5	1833.1	1863.4	1870.3
32.5°	2366.5	2347.8	2126.5	1781.8	1565.2	1521.0	1595.5	1693.3	1767.9	1802.8	1809.8
35°	2482.9	2464.3	2147.5	1686.3	1432.5	1385.9	1453.4	1553.6	1651.4	1695.6	1709.6
37.5°	2634.3	2606.4	2166.1	1583.8	1320.6	1267.1	1299.7	1390.5	1479.0	1539.6	1555.9
40°	2827.6	2783.4	2182.4	1467.4	1222.8	1162.3	1173.9	1218.2	1269.4	1323.0	1343.9
42.5°	3100.1	3011.6	2184.8	1343.9	1122.7	1066.8	1062.1	1076.1	1076.1	1076.1	1083.1
45°	3479.8	3312.1	2189.4	1227.5	1020.2	962.0	948.0	943.3	908.4	840.8	836.2
47.5°	3959.6	3705.7	2210.4	1129.7	913.0	861.8	843.2	824.5	759.3	689.4	675.5
50°	4574.5	4162.3	2252.3	1036.5	822.2	787.3	764.0	719.7	647.5	593.9	580.0
52.5°	5282.6	4705.0	2291.9	938.7	754.7	731.4	703.4	649.8	573.0	540.4	535.7
55°	6095.5	5310.5	2371.1	852.5	696.4	680.1	654.5	603.3	545.0	521.7	519.4
57.5°	6927.0	5988.3	2482.9	775.6	640.5	631.2	631.2	587.0	549.7	540.4	540.4
60°	7728.2	6570.6	2396.7	703.4	589.3	593.9	638.2	626.6	598.6	610.2	617.2
62.5°	8350.1	6913.0	1944.9	645.2	552.0	593.9	708.1	708.1	675.5	670.8	670.8
65°	8615.7	6908.4	1367.2	600.9	538.0	652.2	789.6	752.3	666.1	633.5	626.6
67.5°	8548.1	6605.6	943.3	570.7	533.4	712.7	826.9	722.0	624.2	596.3	575.3
70°	7954.2	5965.0	726.7	542.7	526.4	687.1	815.2	687.1	591.6	566.0	547.4
72.5°	6416.9	4784.2	603.3	514.8	498.4	635.9	775.6	654.5	566.0	538.0	519.4
75°	4092.4	3009.3	510.1	477.5	444.9	570.7	722.0	621.9	538.0	500.8	486.8
77.5°	1968.2	1297.4	444.9	433.2	400.6	528.7	668.5	580.0	500.8	470.5	461.2
80°	796.6	593.9	386.6	389.0	368.0	503.1	631.2	540.4	463.5	430.9	414.6
82.5°	414.6	344.7	326.1	335.4	335.4	479.8	603.3	507.8	430.9	416.9	363.4
85°	223.6	214.3	251.6	270.2	291.1	433.2	561.3	472.8	393.6	337.7	326.1
87.5°	109.5	139.8	142.1	163.0	202.6	347.0	472.8	396.0	328.4	272.5	267.9
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)