

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: P237326

Luminaire Tested: **ARCH-L-AF72-130-D-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237326
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29615)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-130-D-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18111.3 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 133
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

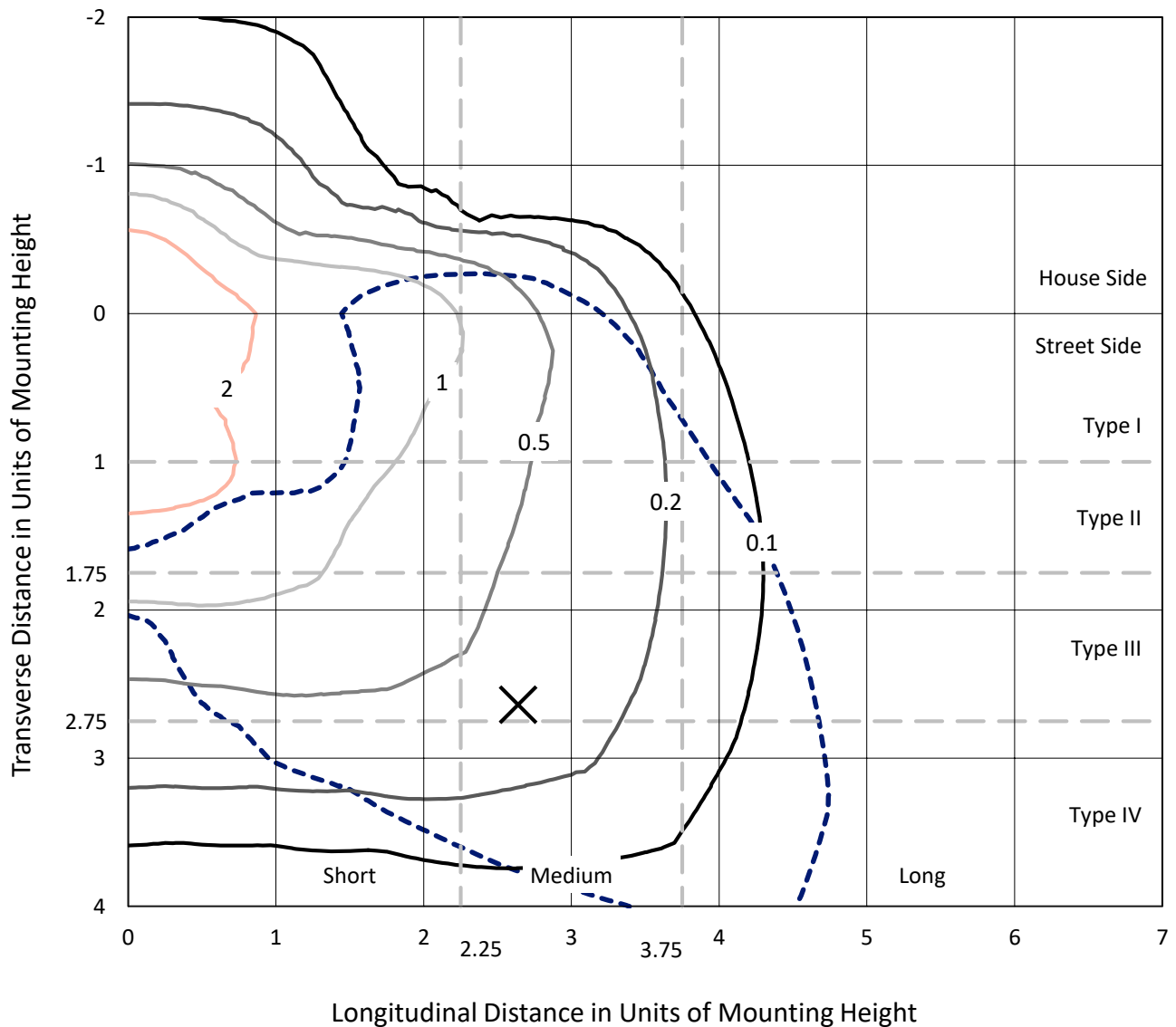


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Iso-Footcandle Lines of Horizontal Illumination

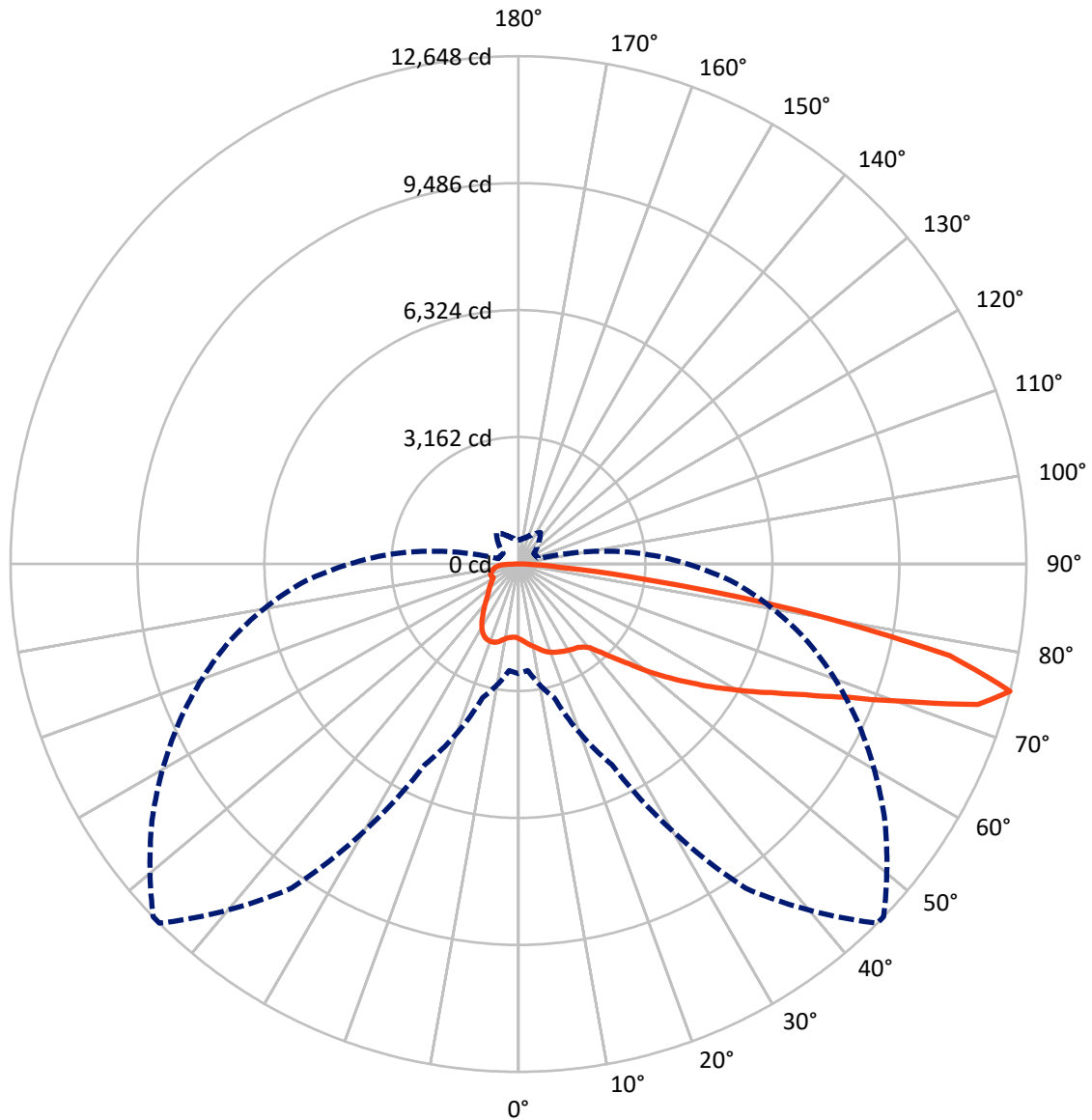
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Medium - Non-Cutoff

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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	4195.7	0.0	4195.7
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	13915.7	0.0	13915.7
	% Fixture	76.8	0.0	76.8
Total	Lumens	18111.3	0.0	18111.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.0	1.0
10°-20°	596.2	3.3
20°-30°	1023.2	5.6
30°-40°	1431.0	7.9
40°-50°	2099.2	11.6
50°-60°	3269.9	18.1
60°-70°	4705.2	26.0
70°-80°	4098.7	22.6
80°-90°	703.9	3.9
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°	18111.3	100.0
0°-180°	18111.3	100.0

Coefficient of Utilization



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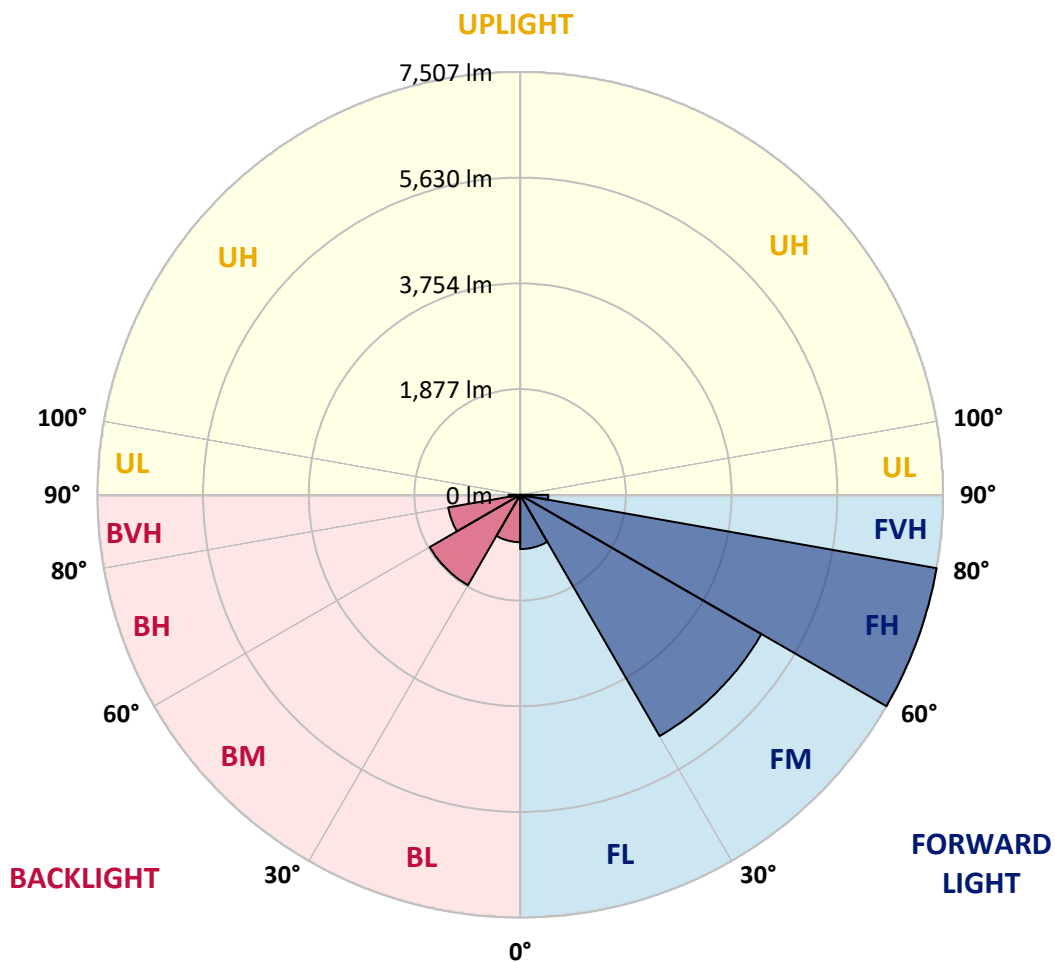
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	963.1	5.3			
FM	(30°-60°)	4945.9	27.3			
FH	(60°-80°)	7507.3	41.5			G4/12000
FVH	(80°-90°)	499.4	2.8			G3/500
BL	(0°-30°)	840.3	4.6	B2/1000		
BM	(30°-60°)	1854.2	10.2	B2/2500		
BH	(60°-80°)	1296.6	7.2	B3/2500		G3/2500
BVH	(80°-90°)	204.5	1.1			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1856.7	1856.7	1856.7	1856.7	1856.7	1856.7	1856.7	1856.7	1856.7	1856.7	1856.7
2.5°	1948.3	1934.2	1934.2	1923.7	1923.7	1906.0	1898.9	1895.4	1877.8	1867.2	1856.7
5°	2061.0	2043.3	2039.9	2015.2	2004.7	1965.9	1962.3	1937.7	1906.0	1874.3	1849.6
7.5°	2163.1	2152.6	2135.0	2110.3	2078.6	2029.3	2025.7	1987.0	1934.2	1891.9	1856.7
10°	2237.2	2230.1	2205.5	2173.8	2138.5	2089.2	2085.7	2043.3	1980.0	1930.6	1881.3
12.5°	2325.3	2314.6	2282.9	2240.7	2201.9	2156.2	2152.6	2117.4	2046.9	1983.5	1920.1
15°	2409.8	2395.8	2357.0	2314.6	2272.4	2233.6	2233.6	2194.8	2120.9	2046.9	1973.0
17.5°	2452.1	2445.1	2406.3	2360.5	2325.3	2297.0	2293.6	2258.3	2184.3	2106.8	2025.7
20°	2466.1	2469.7	2434.4	2385.1	2360.5	2346.3	2342.9	2318.2	2237.2	2163.1	2085.7
22.5°	2462.7	2473.2	2445.1	2392.2	2385.1	2385.1	2385.1	2357.0	2293.6	2219.6	2142.1
25°	2476.8	2490.8	2469.7	2406.3	2406.3	2420.4	2420.4	2406.3	2349.9	2286.5	2209.0
27.5°	2526.1	2536.6	2519.0	2430.9	2434.4	2455.6	2452.1	2455.6	2420.4	2360.5	2282.9
30°	2585.9	2600.0	2578.9	2469.7	2466.1	2487.3	2487.3	2504.9	2480.2	2416.8	2353.4
32.5°	2748.1	2744.5	2677.6	2512.0	2501.4	2522.5	2522.5	2540.2	2526.1	2476.8	2416.8
35°	3230.7	3177.8	3029.9	2649.3	2543.7	2554.2	2554.2	2585.9	2593.0	2554.2	2501.4
37.5°	3724.0	3706.3	3593.5	3015.8	2698.6	2621.2	2617.6	2663.5	2695.2	2663.5	2628.3
40°	4220.7	4206.6	4181.9	3505.4	3022.8	2741.0	2730.4	2769.1	2825.5	2804.4	2783.2
42.5°	4682.1	4675.2	4699.8	3988.2	3435.0	2998.2	2966.5	2920.6	3001.6	2994.6	2994.6
45°	5045.1	5062.7	5076.8	4439.1	3882.4	3329.3	3290.5	3135.5	3244.8	3272.9	3294.1
47.5°	5249.4	5263.5	5312.8	4879.5	4329.8	3713.3	3685.2	3431.5	3575.9	3660.5	3720.4
50°	5541.8	5503.1	5545.3	5309.3	4868.9	4213.6	4136.1	3829.6	4012.8	4160.8	4301.7
52.5°	5823.7	5760.2	5795.5	5806.1	5481.9	4703.3	4622.3	4298.1	4527.2	4759.7	5009.8
55°	6077.4	6073.8	6109.1	6288.7	6073.8	5228.3	5136.6	4816.1	5147.3	5397.4	5820.2
57.5°	6281.6	6316.9	6471.9	6848.9	6757.3	5799.0	5696.8	5418.5	5809.5	6059.8	6760.8
60°	6521.2	6577.6	6834.8	7324.5	7380.9	6397.9	6292.3	6091.5	6489.5	6743.2	7849.4
62.5°	6602.2	6683.3	7211.8	7824.8	8032.6	7053.2	6958.1	6824.2	7204.7	7433.7	8934.6
65°	6063.2	6218.2	7419.7	8081.9	8733.7	7842.5	7761.3	7645.1	7916.4	8067.9	9670.9
67.5°	5915.3	5985.7	7014.5	8451.9	9392.5	8857.0	8776.0	8575.2	8582.3	8518.8	9910.4
70°	5707.5	5784.9	6598.7	8730.3	10336.7	10245.2	10146.5	9554.7	9191.7	8807.7	9438.4
72.5°	4861.9	4837.2	5686.3	7979.8	10791.2	11964.4	11848.1	10608.0	9642.7	8557.6	7965.7
75°	2730.4	2660.0	3449.1	5520.7	9854.1	12647.9	12644.4	11140.0	9325.6	7454.9	5422.0
77.5°	792.7	771.5	1137.9	2314.6	6633.9	10988.5	11122.4	10047.8	7782.5	5355.1	2977.0
80°	373.5	380.5	489.7	764.6	2832.6	7092.0	7476.0	6616.3	4650.4	2469.7	1229.6
82.5°	236.1	239.6	334.7	493.3	1197.9	3220.1	3537.2	2977.0	1842.5	1067.4	542.6
85°	148.0	148.0	222.0	324.2	715.1	1028.8	1116.9	1014.7	789.2	581.3	295.9
87.5°	81.0	81.0	133.9	186.7	391.1	331.1	341.8	405.2	493.3	355.8	148.0
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°	1856.7	1856.7	1856.7	1856.7	1856.7	1856.7	1856.7	1856.7	1856.7	1856.7	1856.7
2.5°	1853.2	1846.1	1835.5	1832.0	1828.5	1824.9	1828.5	1835.5	1828.5	1828.5	1832.0
5°	1842.5	1835.5	1821.5	1821.5	1824.9	1828.5	1846.1	1856.7	1860.2	1860.2	1860.2
7.5°	1842.5	1832.0	1821.5	1824.9	1832.0	1846.1	1874.3	1891.9	1906.0	1909.5	1909.5
10°	1860.2	1846.1	1839.1	1846.1	1867.2	1877.8	1906.0	1934.2	1951.8	1958.8	1958.8
12.5°	1891.9	1877.8	1877.8	1891.9	1920.1	1934.2	1958.8	1980.0	2001.1	2011.7	2011.7
15°	1944.7	1927.1	1930.6	1955.3	1987.0	2001.1	2018.7	2025.7	2043.3	2057.5	2057.5
17.5°	1994.0	1976.4	1983.5	2011.7	2032.8	2039.9	2050.4	2046.9	2054.0	2064.5	2068.1
20°	2050.4	2032.8	2036.4	2054.0	2057.5	2050.4	2050.4	2039.9	2036.4	2054.0	2061.0
22.5°	2106.8	2089.2	2085.7	2075.1	2057.5	2039.9	2029.3	2018.7	2011.7	2029.3	2036.4
25°	2173.8	2149.1	2131.4	2085.7	2039.9	2008.2	1994.0	1987.0	1983.5	2001.1	2008.2
27.5°	2247.7	2223.1	2170.2	2071.6	1997.6	1944.7	1934.2	1934.2	1941.3	1951.8	1958.8
30°	2318.2	2293.6	2198.4	2039.9	1923.7	1846.1	1835.5	1846.1	1863.7	1874.3	1884.9
32.5°	2388.7	2364.0	2216.0	1990.6	1814.4	1715.8	1708.7	1726.3	1754.5	1761.5	1768.6
35°	2483.8	2459.1	2237.2	1920.1	1677.0	1571.3	1564.3	1574.8	1599.5	1610.0	1620.7
37.5°	2617.6	2603.6	2268.9	1842.5	1550.2	1433.9	1412.8	1405.7	1419.9	1416.3	1430.4
40°	2793.8	2804.4	2325.3	1740.4	1426.8	1307.0	1261.3	1240.1	1226.0	1197.9	1212.0
42.5°	3051.0	3058.0	2388.7	1624.1	1321.1	1187.2	1127.4	1088.6	1060.5	1014.7	1021.7
45°	3428.0	3368.1	2462.7	1500.9	1226.0	1092.2	1021.7	975.9	937.1	898.4	901.9
47.5°	3928.2	3745.0	2543.7	1398.7	1130.9	1014.7	951.2	898.4	852.6	820.9	824.4
50°	4544.8	4213.6	2624.7	1303.5	1035.8	954.7	898.4	842.0	796.3	764.6	761.0
52.5°	5358.6	4777.3	2677.6	1197.9	940.7	901.9	852.6	799.7	743.4	704.6	701.1
55°	6204.2	5432.6	2723.3	1071.0	849.0	842.0	817.3	757.5	690.5	641.2	634.1
57.5°	7134.3	6133.7	2758.6	947.7	778.6	792.7	785.6	715.1	641.2	595.4	591.9
60°	7979.8	6859.5	2645.9	838.5	715.1	743.4	750.4	690.5	651.7	662.4	665.8
62.5°	8832.4	7419.7	2216.0	757.5	672.9	711.7	771.5	768.0	750.4	768.0	771.5
65°	9138.9	7535.9	1571.3	690.5	630.6	725.8	838.5	831.5	750.4	718.7	711.7
67.5°	8966.3	7190.6	1056.9	637.7	598.9	743.4	909.0	831.5	722.2	680.0	665.8
70°	8145.3	6341.6	775.1	584.8	570.7	739.9	947.7	828.0	708.2	662.4	644.8
72.5°	6496.6	4893.6	623.6	535.5	528.5	722.2	968.8	820.9	694.1	644.8	623.6
75°	4206.6	3044.0	525.0	486.2	465.0	694.1	958.3	799.7	676.5	613.1	598.9
77.5°	1951.8	1310.6	447.4	429.8	405.2	651.7	926.6	757.5	637.7	577.8	560.2
80°	909.0	620.1	377.0	373.5	362.8	616.5	884.3	708.2	591.9	542.6	514.3
82.5°	486.2	373.5	306.5	306.5	317.1	574.3	831.5	648.2	532.0	507.3	433.3
85°	257.2	214.9	222.0	239.6	271.3	507.3	761.0	584.8	465.0	387.5	377.0
87.5°	130.3	137.4	137.4	162.0	207.9	412.2	627.1	482.6	394.6	317.1	310.1
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)