

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: P399748

Luminaire Tested: **ARCH-L-PA3-180-827-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399748
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-PA3-180-827-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 775mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19578 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

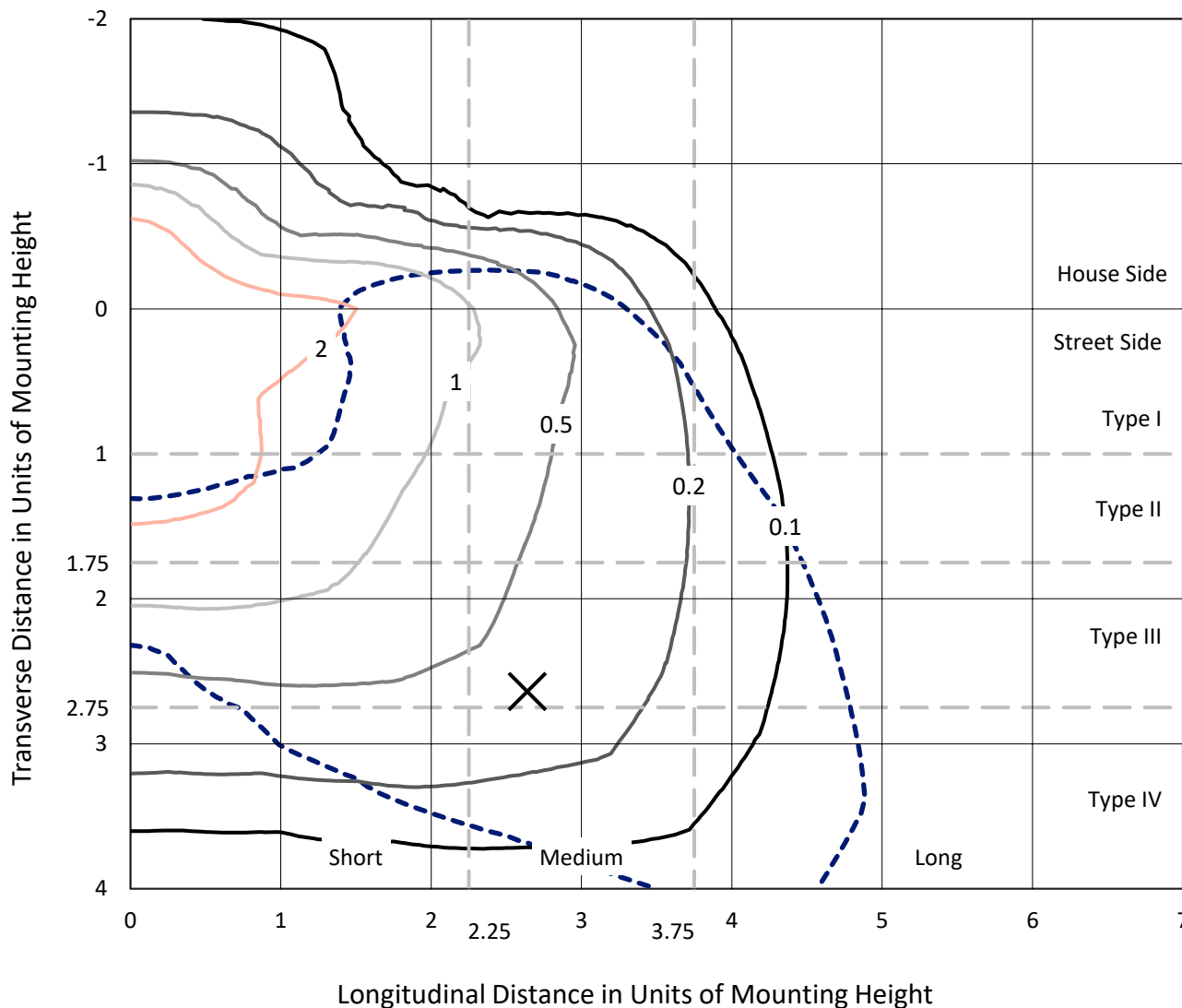
Input Watts (W): 181
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

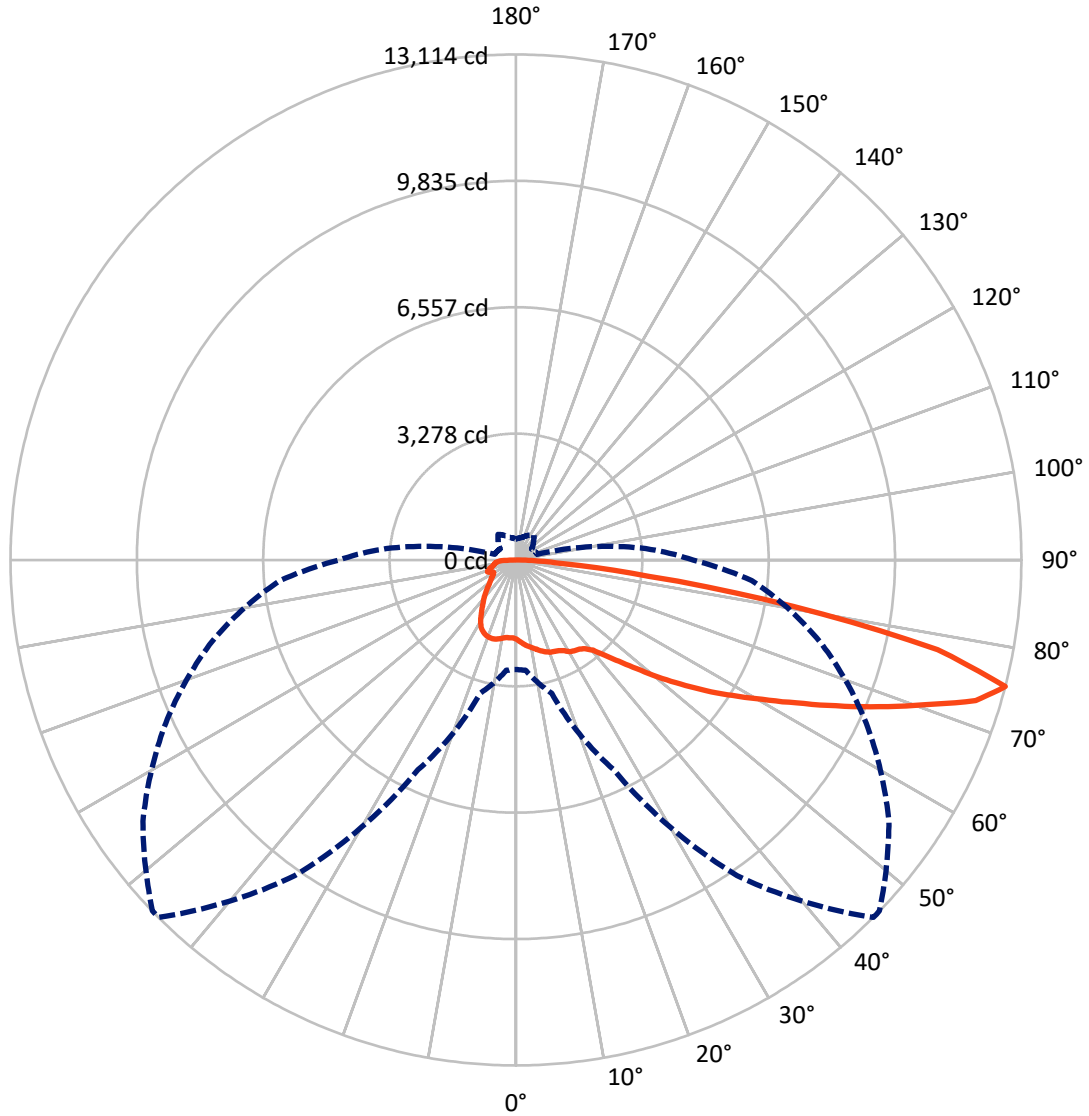
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	4326.6	0.0	4326.6
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	15251.4	0.0	15251.4
	% Fixture	77.9	0.0	77.9
Total	Lumens	19578.0	0.0	19578.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.4	1.0
10°-20°	647.1	3.3
20°-30°	1103.2	5.6
30°-40°	1545.8	7.9
40°-50°	2271.0	11.6
50°-60°	3614.3	18.5
60°-70°	5141.3	26.3
70°-80°	4304.8	22.0
80°-90°	747.1	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°	19578.0	100.0
0°-180°	19578.0	100.0

Coefficient of Utilization

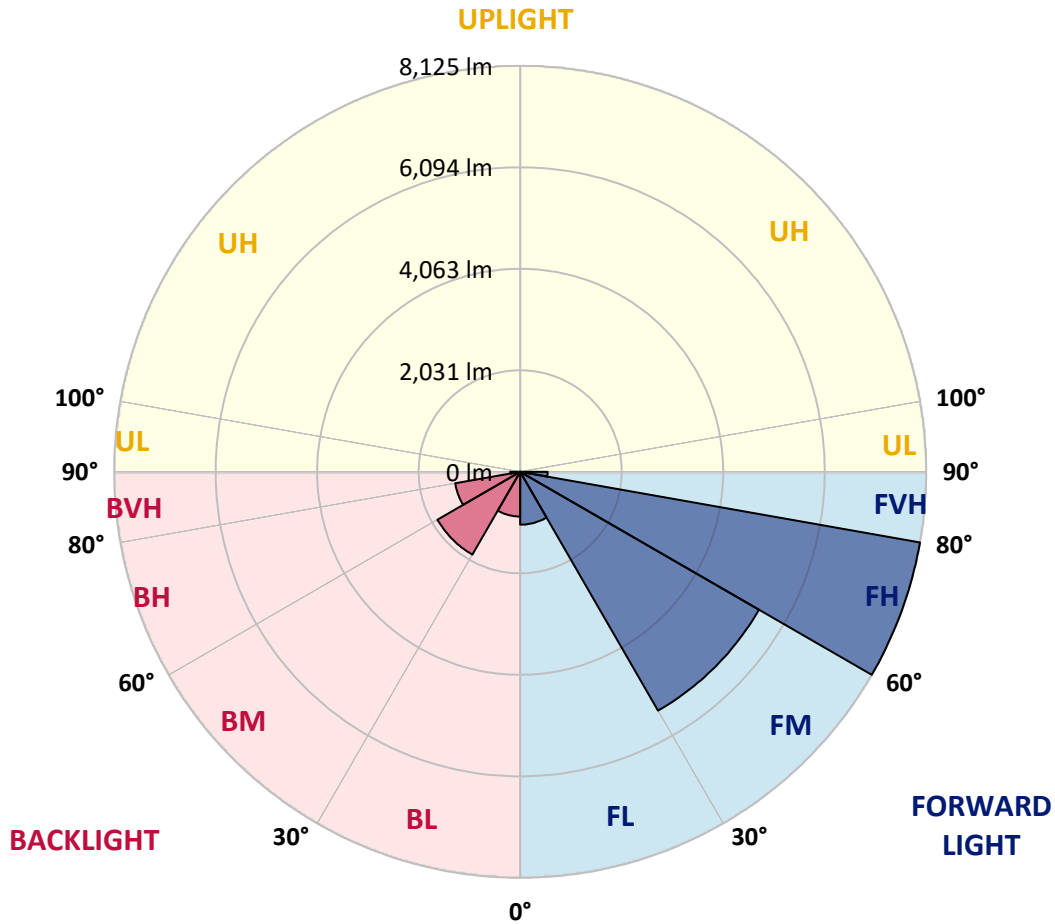


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1058.3	5.4			
FM (30°-60°)	5518.4	28.2			
FH (60°-80°)	8125.4	41.5			G4/12000
FVH (80°-90°)	549.2	2.8			G4/750
BL (0°-30°)	895.4	4.6	B2/1000		
BM (30°-60°)	1912.6	9.8	B2/2500		
BH (60°-80°)	1320.8	6.7	B3/2500		G3/2500
BVH (80°-90°)	197.9	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-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2056.1	2056.1	2056.1	2056.1	2056.1	2056.1	2056.1	2056.1	2056.1	2056.1	2056.1
2.5°	2173.8	2163.4	2158.1	2158.1	2137.2	2124.1	2121.5	2103.2	2087.5	2071.8	2058.7
5°	2299.4	2291.6	2275.9	2262.8	2234.0	2197.4	2192.1	2152.9	2113.7	2077.0	2045.7
7.5°	2414.5	2398.8	2380.5	2354.3	2307.2	2257.5	2249.7	2194.8	2139.8	2084.9	2043.0
10°	2511.3	2495.6	2469.4	2432.8	2372.6	2312.5	2304.6	2247.1	2189.5	2124.1	2064.0
12.5°	2602.8	2589.8	2550.5	2500.8	2430.2	2375.3	2367.4	2317.7	2257.5	2184.3	2105.8
15°	2681.3	2668.2	2626.4	2568.8	2487.7	2445.9	2435.4	2388.3	2328.2	2249.7	2168.6
17.5°	2720.6	2720.6	2676.1	2613.3	2537.4	2506.1	2498.2	2440.7	2385.7	2309.9	2228.8
20°	2733.6	2738.9	2707.5	2631.6	2566.2	2553.1	2545.3	2498.2	2435.4	2362.2	2286.3
22.5°	2741.5	2752.0	2725.8	2639.5	2584.5	2576.7	2571.5	2540.1	2490.4	2419.7	2343.9
25°	2767.7	2767.7	2749.3	2652.5	2608.1	2605.5	2605.5	2587.2	2553.1	2493.0	2417.1
27.5°	2806.9	2804.3	2780.7	2681.3	2660.4	2668.2	2665.6	2663.0	2639.5	2579.3	2498.2
30°	2872.3	2872.3	2846.1	2738.9	2725.8	2759.8	2762.4	2767.7	2731.0	2636.9	2571.5
32.5°	2971.7	2961.2	2935.1	2796.4	2775.5	2806.9	2812.1	2809.5	2778.1	2689.2	2657.8
35°	3277.8	3254.2	3160.0	2924.6	2820.0	2838.3	2840.9	2854.0	2859.2	2788.6	2772.9
37.5°	3814.0	3782.6	3638.8	3228.1	2961.2	2916.8	2914.1	2948.1	2976.9	2914.1	2914.1
40°	4397.4	4371.2	4287.5	3751.2	3222.8	3076.3	3065.9	3097.3	3133.9	3089.4	3102.5
42.5°	4899.6	4920.6	4928.4	4305.8	3615.2	3374.5	3345.8	3301.3	3358.8	3319.6	3371.9
45°	5276.3	5265.9	5409.7	4873.5	4122.7	3748.6	3709.4	3589.1	3662.3	3659.7	3774.8
47.5°	5676.6	5658.2	5718.4	5407.1	4700.8	4206.4	4146.2	3968.4	4078.2	4154.1	4345.1
50°	6055.9	6061.1	6082.0	5828.3	5328.6	4763.6	4687.7	4449.7	4606.6	4766.2	5035.7
52.5°	6550.3	6513.7	6487.5	6320.1	6032.3	5344.3	5294.6	5022.6	5242.3	5430.7	5789.0
55°	6981.9	6958.4	6942.7	6934.8	6620.9	5985.2	5932.9	5650.4	5966.9	6100.3	6628.8
57.5°	7442.3	7429.2	7512.9	7646.4	7520.8	6636.6	6581.7	6309.6	6662.8	6756.9	7539.1
60°	7779.8	7787.6	8017.8	8357.9	8271.6	7342.9	7277.5	7036.8	7340.3	7424.0	8449.4
62.5°	7782.4	7860.9	8394.5	9004.0	9103.4	8156.5	8080.6	7819.0	8036.1	8036.1	9265.6
65°	7039.5	7128.4	8326.5	9163.6	9945.8	9124.4	9051.1	8640.4	8721.5	8611.6	10032.1
67.5°	6299.2	6403.8	7531.3	9176.7	10537.0	10160.3	10073.9	9461.8	9323.2	9045.9	10568.3
70°	5807.4	5880.6	6822.3	9006.6	10892.7	11243.3	11177.9	10241.4	9796.6	9409.5	10455.9
72.5°	4889.2	4863.0	5762.9	8198.3	11091.5	12472.7	12417.8	11088.9	10207.3	9236.8	8917.7
75°	2838.3	2869.7	3576.0	6006.2	9998.1	13113.6	13108.4	11813.5	10026.8	8159.1	6144.8
77.5°	818.8	842.3	1174.6	2639.5	6322.7	11185.7	11544.1	10803.8	8475.6	5815.2	3186.2
80°	358.4	376.7	510.1	879.0	2723.2	7306.3	7620.2	7306.3	5111.5	2668.2	1250.4
82.5°	211.9	225.0	332.2	544.1	1305.3	3476.6	3900.3	3405.9	2205.2	1132.7	518.0
85°	120.3	125.6	191.0	345.3	821.4	1216.4	1365.5	1279.2	1075.1	643.5	272.1
87.5°	54.9	57.6	94.2	162.2	460.4	410.7	426.4	565.0	622.6	392.4	136.0
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°	2056.1	2056.1	2056.1	2056.1	2056.1	2056.1	2056.1	2056.1	2056.1	2056.1	2056.1
2.5°	2053.5	2045.7	2030.0	2024.7	2016.9	2019.5	2022.1	2022.1	2024.7	2016.9	2016.9
5°	2032.6	2019.5	2003.8	2003.8	2003.8	2024.7	2043.0	2053.5	2058.7	2058.7	2053.5
7.5°	2024.7	2009.0	1990.7	1996.0	2001.2	2027.3	2061.4	2095.4	2105.8	2105.8	2100.6
10°	2040.4	2024.7	2011.6	2019.5	2032.6	2053.5	2079.7	2111.1	2137.2	2139.8	2137.2
12.5°	2077.0	2058.7	2045.7	2061.4	2077.0	2090.1	2103.2	2116.3	2150.3	2155.5	2155.5
15°	2137.2	2118.9	2103.2	2116.3	2121.5	2121.5	2121.5	2121.5	2155.5	2160.8	2160.8
17.5°	2197.4	2181.7	2166.0	2168.6	2152.9	2132.0	2124.1	2121.5	2139.8	2155.5	2158.1
20°	2254.9	2241.8	2226.2	2200.0	2160.8	2121.5	2108.4	2108.4	2118.9	2142.4	2142.4
22.5°	2317.7	2302.0	2275.9	2215.7	2150.3	2095.4	2082.3	2090.1	2103.2	2134.6	2132.0
25°	2388.3	2367.4	2322.9	2210.5	2116.3	2050.9	2053.5	2077.0	2100.6	2134.6	2134.6
27.5°	2466.8	2438.0	2349.1	2168.6	2040.4	1977.6	2001.2	2056.1	2090.1	2126.7	2132.0
30°	2553.1	2527.0	2370.0	2095.4	1917.5	1859.9	1917.5	2006.4	2058.7	2092.7	2100.6
32.5°	2657.8	2636.9	2388.3	2001.2	1757.9	1708.2	1791.9	1901.8	1985.5	2024.7	2032.6
35°	2788.6	2767.7	2411.9	1893.9	1608.8	1556.5	1632.3	1744.8	1854.7	1904.4	1920.1
37.5°	2958.6	2927.2	2432.8	1778.8	1483.2	1423.1	1459.7	1561.7	1661.1	1729.1	1747.4
40°	3175.7	3126.0	2451.1	1648.0	1373.4	1305.3	1318.4	1368.1	1425.7	1485.8	1509.4
42.5°	3481.8	3382.4	2453.7	1509.4	1260.9	1198.1	1192.9	1208.6	1208.6	1208.6	1216.4
45°	3908.2	3719.8	2459.0	1378.6	1145.8	1080.4	1064.7	1059.5	1020.2	944.3	939.1
47.5°	4447.1	4161.9	2482.5	1268.7	1025.4	967.9	947.0	926.0	852.8	774.3	758.6
50°	5137.7	4674.7	2529.6	1164.1	923.4	884.2	858.0	808.3	727.2	667.1	651.4
52.5°	5932.9	5284.2	2574.1	1054.2	847.6	821.4	790.0	729.8	643.5	606.9	601.7
55°	6845.9	5964.3	2663.0	957.4	782.2	763.9	735.1	677.5	612.1	586.0	583.4
57.5°	7779.8	6725.5	2788.6	871.1	719.4	708.9	708.9	659.2	617.4	606.9	606.9
60°	8679.6	7379.5	2691.8	790.0	661.8	667.1	716.8	703.7	672.3	685.4	693.2
62.5°	9378.1	7764.1	2184.3	724.6	620.0	667.1	795.2	795.2	758.6	753.4	753.4
65°	9676.3	7758.8	1535.5	674.9	604.3	732.5	886.8	844.9	748.2	711.5	703.7
67.5°	9600.5	7418.8	1059.5	640.9	599.0	800.5	928.7	810.9	701.1	669.7	646.1
70°	8933.4	6699.4	816.2	609.5	591.2	771.7	915.6	771.7	664.4	635.7	614.7
72.5°	7206.9	5373.1	677.5	578.1	559.8	714.1	871.1	735.1	635.7	604.3	583.4
75°	4596.2	3379.8	572.9	536.3	499.6	640.9	810.9	698.5	604.3	562.4	546.7
77.5°	2210.5	1457.1	499.6	486.6	449.9	593.8	750.8	651.4	562.4	528.4	518.0
80°	894.6	667.1	434.2	436.9	413.3	565.0	708.9	606.9	520.6	483.9	465.6
82.5°	465.6	387.2	366.2	376.7	376.7	538.9	677.5	570.3	483.9	468.3	408.1
85°	251.1	240.7	282.5	303.4	327.0	486.6	630.4	531.0	442.1	379.3	366.2
87.5°	122.9	157.0	159.6	183.1	227.6	389.8	531.0	444.7	368.8	306.1	300.8
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)