

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: P399973

Luminaire Tested: **ARCH-L-PA3-210-830-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399973
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-PA3-210-830-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23665 lumens
Efficiency: N/A
Efficacy: 112.2 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

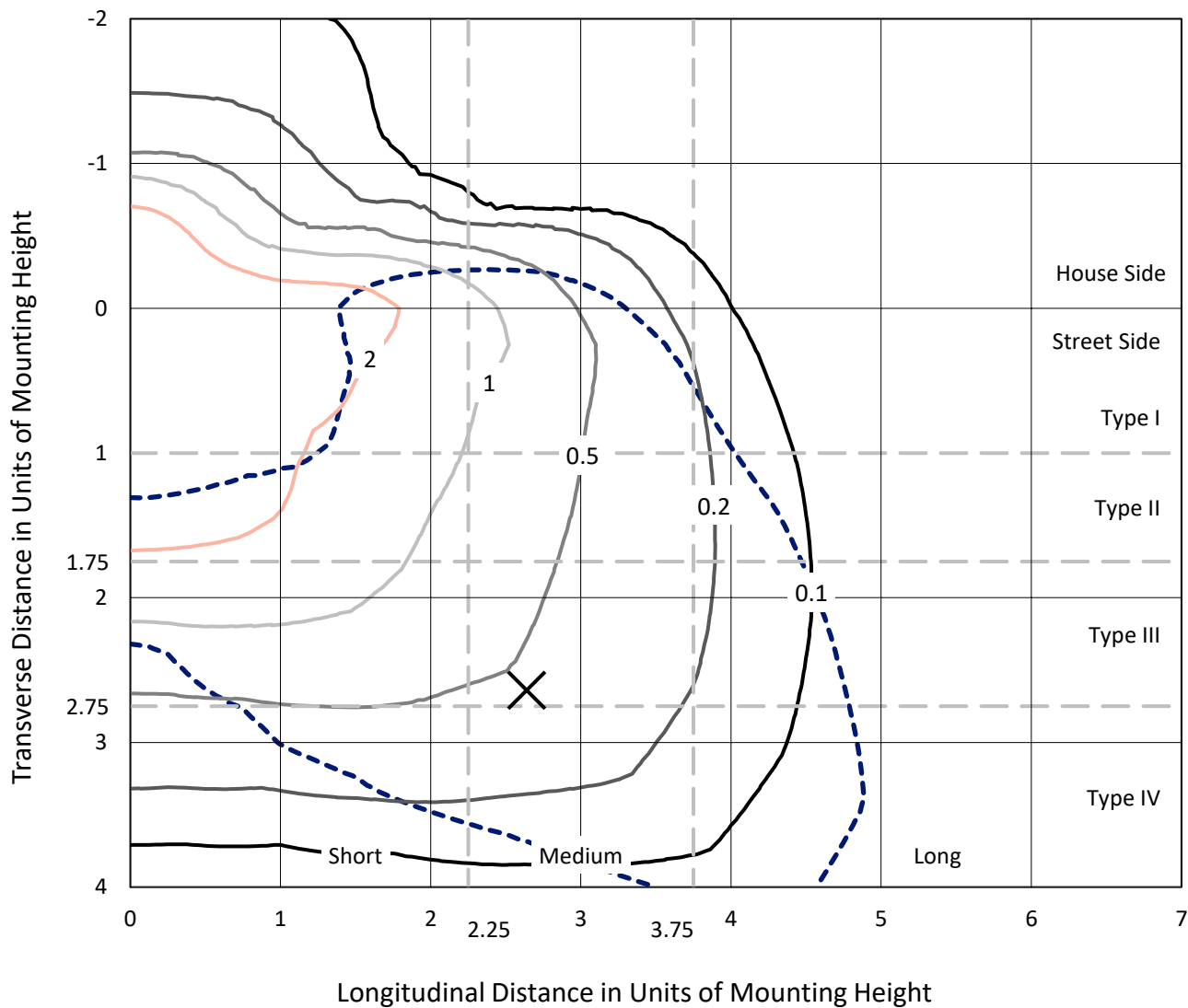
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

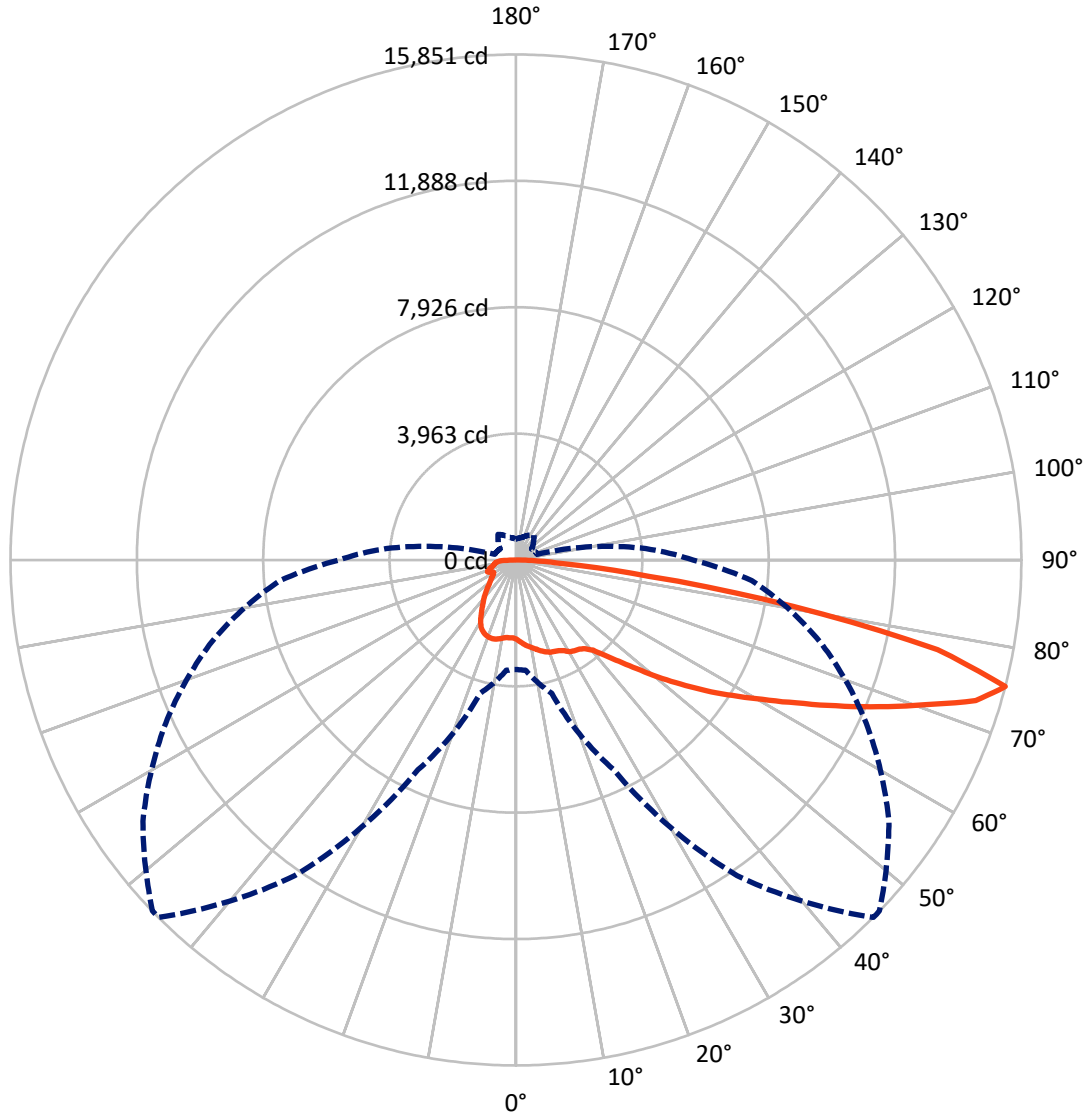
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Medium - N/A

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CATALOG NUMBER: ARCH-L-PA3-210-830-U-T4W

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	5229.9	0.0	5229.9
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	18435.2	0.0	18435.2
	% Fixture	77.9	0.0	77.9
Total	Lumens	23665.0	0.0	23665.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.9	1.0
10°-20°	782.2	3.3
20°-30°	1333.5	5.6
30°-40°	1868.5	7.9
40°-50°	2745.0	11.6
50°-60°	4368.8	18.5
60°-70°	6214.6	26.3
70°-80°	5203.5	22.0
80°-90°	903.1	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°	23665.0	100.0
0°-180°	23665.0	100.0

Coefficient of Utilization

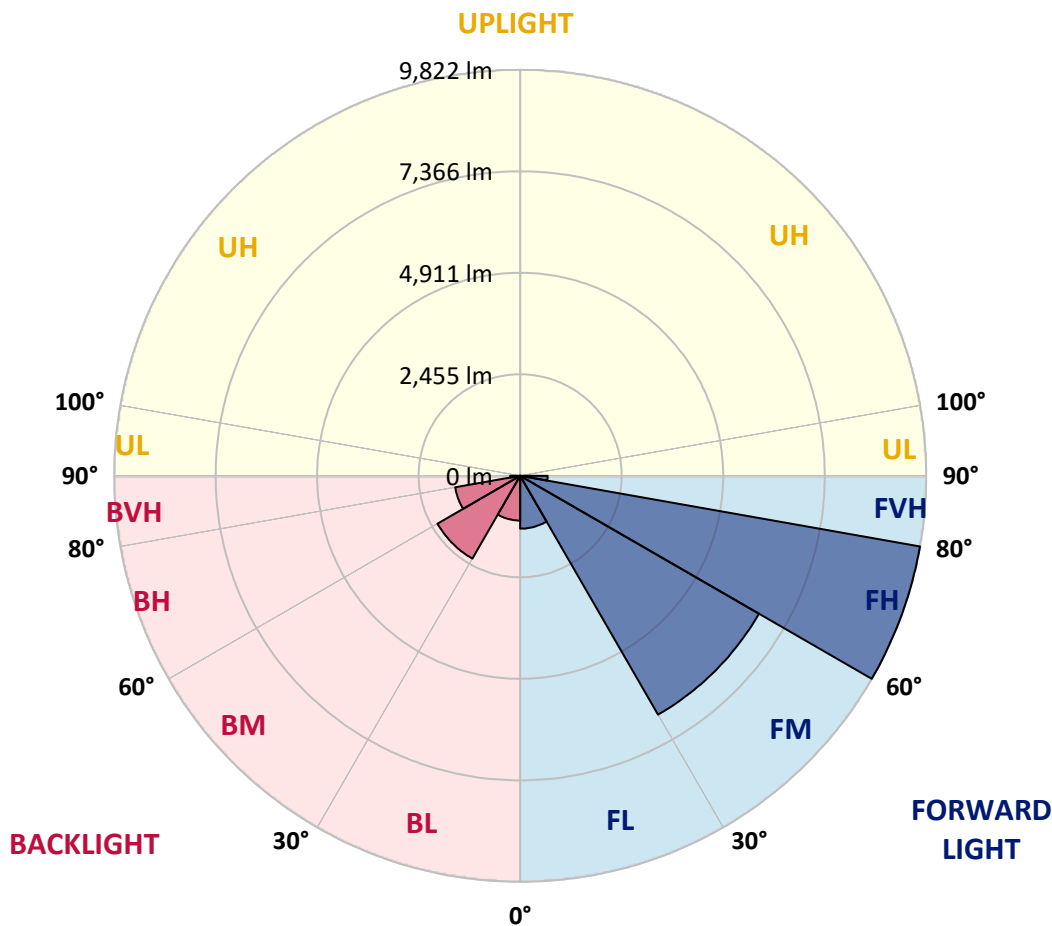


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1279.2	5.4			
FM (30°-60°)	6670.4	28.2			
FH (60°-80°)	9821.6	41.5			G4/12000
FVH (80°-90°)	663.9	2.8			G4/750
BL (0°-30°)	1082.4	4.6	B3/2500		
BM (30°-60°)	2311.8	9.8	B2/2500		
BH (60°-80°)	1596.5	6.7	B3/2500		G3/2500
BVH (80°-90°)	239.2	1.0			G3/500
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°	2485.3	2485.3	2485.3	2485.3	2485.3	2485.3	2485.3	2485.3	2485.3	2485.3	2485.3
2.5°	2627.6	2615.0	2608.7	2608.7	2583.4	2567.6	2564.4	2542.3	2523.3	2504.3	2488.5
5°	2779.4	2769.9	2751.0	2735.1	2700.4	2656.1	2649.8	2602.3	2554.9	2510.6	2472.7
7.5°	2918.5	2899.6	2877.4	2845.8	2788.9	2728.8	2719.3	2652.9	2586.5	2520.1	2469.5
10°	3035.5	3016.6	2984.9	2940.7	2867.9	2795.2	2785.7	2716.2	2646.6	2567.6	2494.8
12.5°	3146.2	3130.4	3083.0	3022.9	2937.5	2871.1	2861.6	2801.5	2728.8	2640.3	2545.4
15°	3241.1	3225.3	3174.7	3105.1	3007.1	2956.5	2943.8	2886.9	2814.2	2719.3	2621.3
17.5°	3288.5	3288.5	3234.7	3158.9	3067.2	3029.2	3019.7	2950.2	2883.8	2792.1	2694.0
20°	3304.3	3310.6	3272.7	3181.0	3101.9	3086.1	3076.6	3019.7	2943.8	2855.3	2763.6
22.5°	3313.8	3326.4	3294.8	3190.5	3124.1	3114.6	3108.3	3070.3	3010.2	2924.9	2833.2
25°	3345.4	3345.4	3323.3	3206.3	3152.5	3149.4	3149.4	3127.2	3086.1	3013.4	2921.7
27.5°	3392.8	3389.7	3361.2	3241.1	3215.8	3225.3	3222.1	3218.9	3190.5	3117.7	3019.7
30°	3471.9	3471.9	3440.3	3310.6	3294.8	3335.9	3339.1	3345.4	3301.1	3187.3	3108.3
32.5°	3592.0	3579.4	3547.8	3380.2	3354.9	3392.8	3399.2	3396.0	3358.1	3250.6	3212.6
35°	3962.0	3933.5	3819.7	3535.1	3408.7	3430.8	3433.9	3449.8	3456.1	3370.7	3351.7
37.5°	4610.2	4572.3	4398.4	3901.9	3579.4	3525.6	3522.5	3563.6	3598.4	3522.5	3522.5
40°	5315.3	5283.7	5182.5	4534.3	3895.6	3718.5	3705.9	3743.8	3788.1	3734.3	3750.1
42.5°	5922.5	5947.7	5957.2	5204.7	4369.9	4079.0	4044.2	3990.5	4060.0	4012.6	4075.8
45°	6377.8	6365.1	6539.0	5890.8	4983.3	4531.2	4483.7	4338.3	4426.8	4423.7	4562.8
47.5°	6861.6	6839.4	6912.2	6535.9	5682.1	5084.5	5011.8	4796.8	4929.6	5021.3	5252.1
50°	7320.1	7326.4	7351.7	7045.0	6441.0	5758.0	5666.3	5378.6	5568.3	5761.2	6086.9
52.5°	7917.7	7873.4	7841.8	7639.4	7291.6	6460.0	6399.9	6071.1	6336.7	6564.3	6997.5
55°	8439.4	8411.0	8392.0	8382.5	8003.1	7234.7	7171.4	6829.9	7212.6	7373.8	8012.5
57.5°	8995.9	8980.1	9081.3	9242.6	9090.8	8022.0	7955.6	7626.8	8053.6	8167.5	9112.9
60°	9403.8	9413.3	9691.6	10102.6	9998.3	8875.8	8796.7	8505.8	8872.6	8973.8	10213.3
62.5°	9407.0	9501.9	10146.9	10883.7	11003.8	9859.2	9767.5	9451.3	9713.7	9713.7	11199.9
65°	8509.0	8616.5	10064.7	11076.5	12022.0	11029.1	10940.6	10444.1	10542.2	10409.3	12126.3
67.5°	7614.1	7740.6	9103.4	11092.3	12736.6	12281.3	12176.9	11437.0	11269.4	10934.2	12774.5
70°	7019.7	7108.2	8246.5	10886.8	13166.6	13590.3	13511.3	12379.3	11841.7	11373.8	12638.6
72.5°	5909.8	5878.2	6965.9	9909.8	13406.9	15076.5	15010.1	13403.8	12338.2	11165.1	10779.3
75°	3430.8	3468.7	4322.5	7260.0	12085.2	15851.2	15844.9	14279.7	12120.0	9862.3	7427.6
77.5°	989.7	1018.2	1419.7	3190.5	7642.6	13520.8	13954.0	13059.1	10244.9	7029.2	3851.3
80°	433.2	455.3	616.6	1062.4	3291.7	8831.5	9210.9	8831.5	6178.6	3225.3	1511.4
82.5°	256.1	271.9	401.6	657.7	1577.8	4202.3	4714.6	4116.9	2665.6	1369.2	626.1
85°	145.5	151.8	230.8	417.4	992.9	1470.3	1650.6	1546.2	1299.6	777.9	328.8
87.5°	66.4	69.6	113.8	196.0	556.5	496.4	515.4	683.0	752.6	474.3	164.4
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°	2485.3	2485.3	2485.3	2485.3	2485.3	2485.3	2485.3	2485.3	2485.3	2485.3	2485.3
2.5°	2482.2	2472.7	2453.7	2447.4	2437.9	2441.1	2444.2	2444.2	2447.4	2437.9	2437.9
5°	2456.9	2441.1	2422.1	2422.1	2422.1	2447.4	2469.5	2482.2	2488.5	2488.5	2482.2
7.5°	2447.4	2428.4	2406.3	2412.6	2418.9	2450.6	2491.7	2532.8	2545.4	2545.4	2539.1
10°	2466.4	2447.4	2431.6	2441.1	2456.9	2482.2	2513.8	2551.7	2583.4	2586.5	2583.4
12.5°	2510.6	2488.5	2472.7	2491.7	2510.6	2526.4	2542.3	2558.1	2599.2	2605.5	2605.5
15°	2583.4	2561.2	2542.3	2558.1	2564.4	2564.4	2564.4	2564.4	2605.5	2611.8	2611.8
17.5°	2656.1	2637.1	2618.1	2621.3	2602.3	2577.0	2567.6	2564.4	2586.5	2605.5	2608.7
20°	2725.7	2709.8	2690.9	2659.3	2611.8	2564.4	2548.6	2548.6	2561.2	2589.7	2589.7
22.5°	2801.5	2782.6	2751.0	2678.2	2599.2	2532.8	2517.0	2526.4	2542.3	2580.2	2577.0
25°	2886.9	2861.6	2807.9	2671.9	2558.1	2479.0	2482.2	2510.6	2539.1	2580.2	2580.2
27.5°	2981.8	2947.0	2839.5	2621.3	2466.4	2390.5	2418.9	2485.3	2526.4	2570.7	2577.0
30°	3086.1	3054.5	2864.8	2532.8	2317.8	2248.2	2317.8	2425.3	2488.5	2529.6	2539.1
32.5°	3212.6	3187.3	2886.9	2418.9	2124.9	2064.8	2166.0	2298.8	2400.0	2447.4	2456.9
35°	3370.7	3345.4	2915.4	2289.3	1944.6	1881.4	1973.1	2109.1	2241.9	2301.9	2320.9
37.5°	3576.2	3538.3	2940.7	2150.2	1792.9	1720.1	1764.4	1887.7	2007.9	2090.1	2112.2
40°	3838.7	3778.6	2962.8	1992.1	1660.1	1577.8	1593.7	1653.7	1723.3	1796.0	1824.5
42.5°	4208.6	4088.5	2966.0	1824.5	1524.1	1448.2	1441.9	1460.9	1460.9	1460.9	1470.3
45°	4724.0	4496.4	2972.3	1666.4	1385.0	1305.9	1286.9	1280.6	1233.2	1141.5	1135.2
47.5°	5375.4	5030.8	3000.8	1533.6	1239.5	1169.9	1144.6	1119.4	1030.8	936.0	917.0
50°	6210.2	5650.5	3057.7	1407.1	1116.2	1068.8	1037.1	977.1	879.0	806.3	787.3
52.5°	7171.4	6387.3	3111.4	1274.3	1024.5	992.9	954.9	882.2	777.9	733.6	727.3
55°	8275.0	7209.4	3218.9	1157.3	945.4	923.3	888.5	819.0	739.9	708.3	705.1
57.5°	9403.8	8129.5	3370.7	1053.0	869.6	856.9	856.9	796.8	746.2	733.6	733.6
60°	10491.6	8920.0	3253.7	954.9	800.0	806.3	866.4	850.6	812.6	828.4	837.9
62.5°	11335.8	9384.9	2640.3	875.9	749.4	806.3	961.3	961.3	917.0	910.7	910.7
65°	11696.3	9378.5	1856.1	815.8	730.4	885.4	1071.9	1021.3	904.3	860.1	850.6
67.5°	11604.6	8967.5	1280.6	774.7	724.1	967.6	1122.5	980.2	847.4	809.5	781.0
70°	10798.3	8097.9	986.5	736.7	714.6	932.8	1106.7	932.8	803.2	768.4	743.1
72.5°	8711.3	6494.8	819.0	698.8	676.7	863.2	1053.0	888.5	768.4	730.4	705.1
75°	5555.7	4085.3	692.5	648.2	603.9	774.7	980.2	844.3	730.4	679.8	660.9
77.5°	2671.9	1761.2	603.9	588.1	543.9	717.8	907.5	787.3	679.8	638.7	626.1
80°	1081.4	806.3	524.9	528.1	499.6	683.0	856.9	733.6	629.2	585.0	562.8
82.5°	562.8	468.0	442.7	455.3	455.3	651.4	819.0	689.3	585.0	566.0	493.3
85°	303.6	290.9	341.5	366.8	395.3	588.1	762.0	641.9	534.4	458.5	442.7
87.5°	148.6	189.7	192.9	221.3	275.1	471.1	641.9	537.5	445.8	370.0	363.6
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)