

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: P399816

Luminaire Tested: **ARCH-L-PA3-190-827-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-190-827-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 810mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20283 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

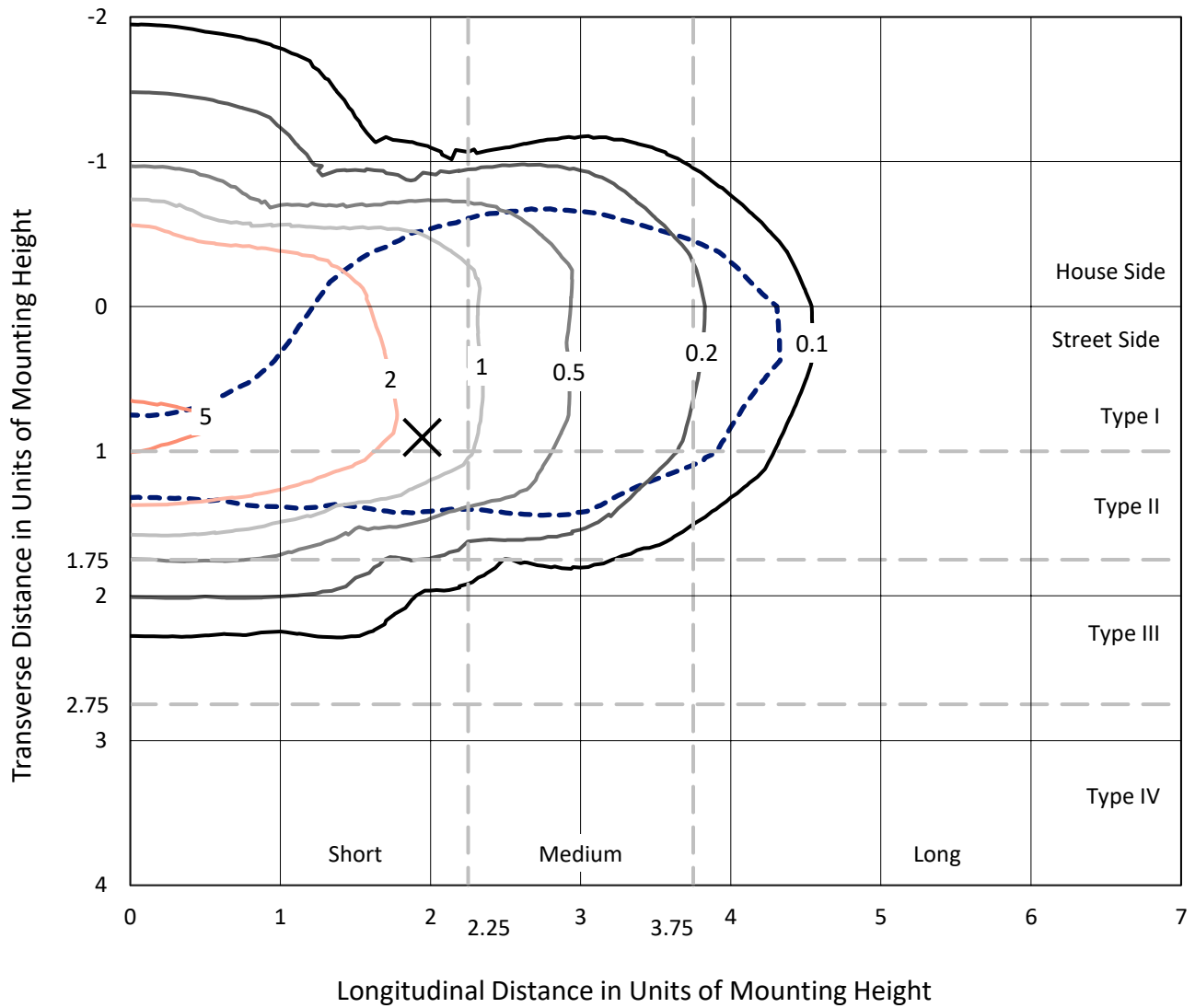
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399816
 CATALOG NUMBER: ARCH-L-PA3-190-827-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

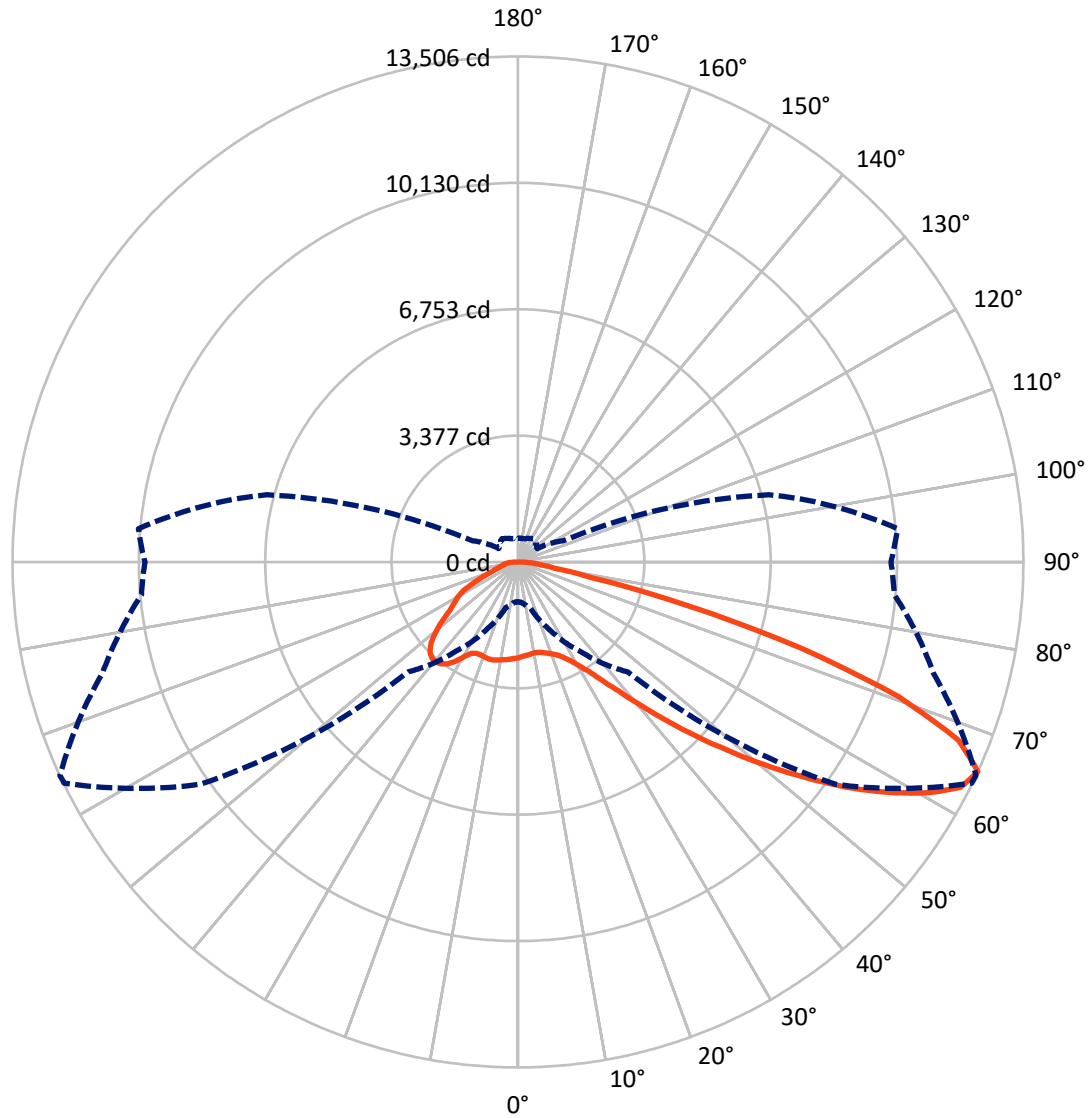
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - N/A

REPORT NUMBER: P399816
CATALOG NUMBER: ARCH-L-PA3-190-827-U-T2U

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P399816
 CATALOG NUMBER: ARCH-L-PA3-190-827-U-T2U

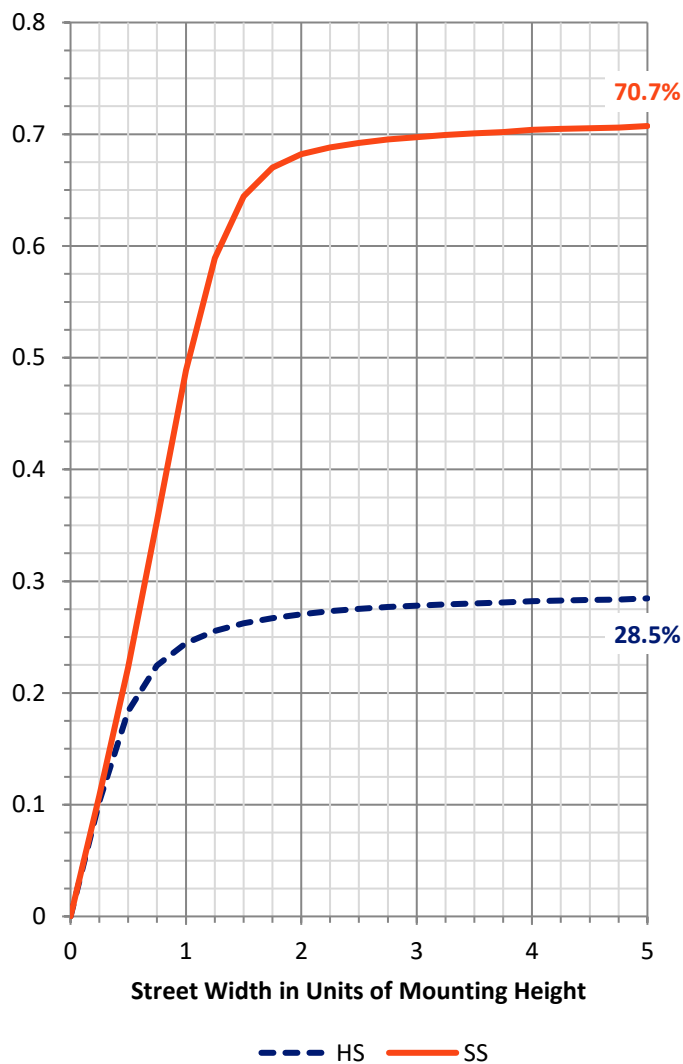
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5864.1	0.0	5864.1
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	14418.9	0.0	14418.9
	% Fixture	71.1	0.0	71.1
Total	Lumens	20283.0	0.0	20283.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.2	1.2
10°-20°	729.0	3.6
20°-30°	1294.9	6.4
30°-40°	2190.7	10.8
40°-50°	3813.6	18.8
50°-60°	4928.4	24.3
60°-70°	4312.6	21.3
70°-80°	2345.8	11.6
80°-90°	423.8	2.1
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°	20283.0	100.0
0°-180°	20283.0	100.0

Coefficient of Utilization



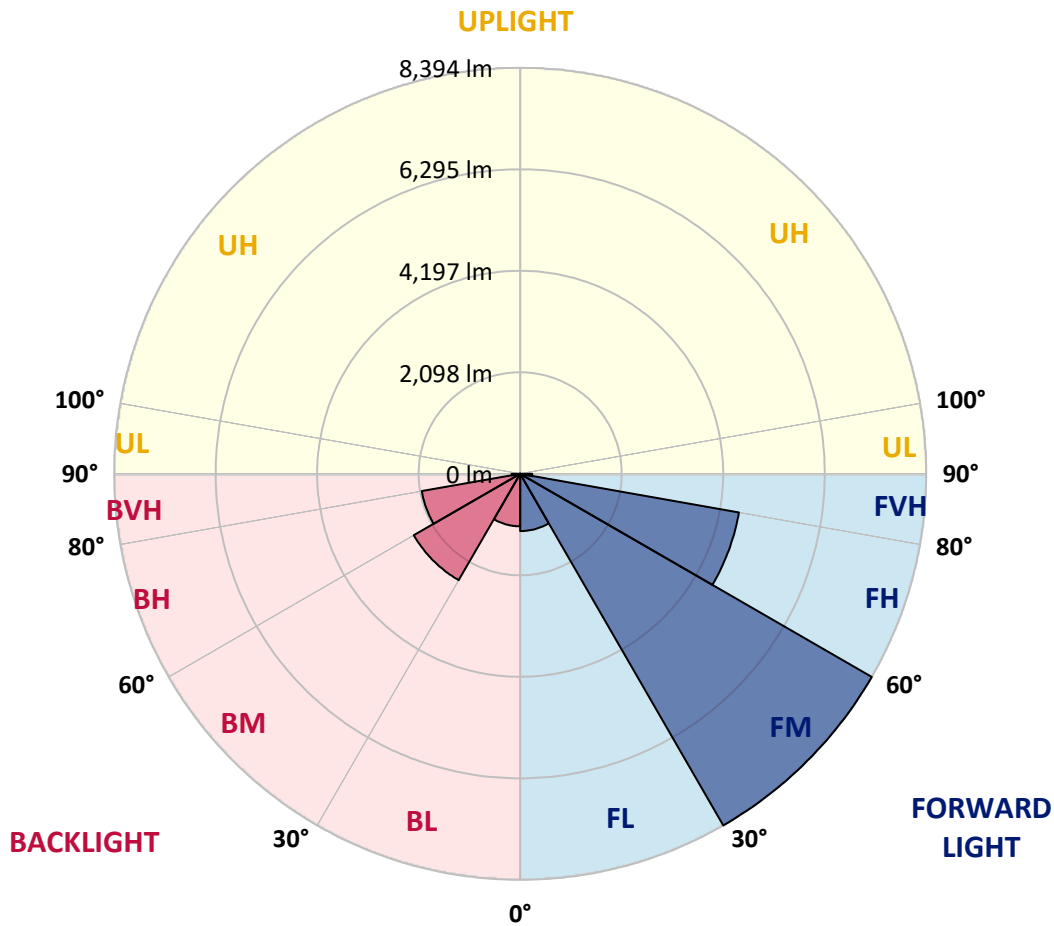
REPORT NUMBER: P399816
 CATALOG NUMBER: ARCH-L-PA3-190-827-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1183.5	5.8			
FM (30°-60°)	8393.7	41.4			
FH (60°-80°)	4592.4	22.6			G2/5000
FVH (80°-90°)	249.4	1.2			G3/500
BL (0°-30°)	1084.7	5.3	B3/2500		
BM (30°-60°)	2539.0	12.5	B3/5000		
BH (60°-80°)	2066.0	10.2	B3/2500		G3/2500
BVH (80°-90°)	174.4	0.9			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 II Short





REPORT NUMBER: P399816

CATALOG NUMBER: ARCH-L-PA3-190-827-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2563.0	2563.0	2563.0	2563.0	2563.0	2563.0	2563.0	2563.0	2563.0	2563.0	2563.0
2.5°	2517.6	2514.9	2509.6	2514.9	2517.6	2522.9	2520.2	2525.6	2522.9	2530.9	2544.3
5°	2453.5	2448.2	2445.5	2458.8	2466.8	2480.2	2485.5	2504.2	2501.5	2514.9	2536.3
7.5°	2381.4	2381.4	2378.7	2394.8	2405.4	2429.5	2448.2	2480.2	2482.9	2506.9	2530.9
10°	2325.3	2328.0	2325.3	2338.7	2354.7	2384.1	2416.1	2461.5	2464.2	2498.9	2522.9
12.5°	2304.0	2304.0	2304.0	2322.7	2344.0	2384.1	2421.5	2469.5	2474.9	2512.2	2533.6
15°	2333.4	2336.0	2330.7	2349.4	2373.4	2421.5	2456.2	2506.9	2512.2	2546.9	2560.3
17.5°	2437.5	2448.2	2434.8	2445.5	2440.1	2477.5	2509.6	2560.3	2563.0	2592.3	2597.7
20°	2643.0	2653.7	2632.4	2619.0	2571.0	2568.3	2581.6	2621.7	2621.7	2640.4	2627.0
22.5°	2960.7	2971.4	2934.0	2883.3	2768.5	2712.5	2683.1	2701.8	2699.1	2707.1	2672.4
25°	3382.6	3379.9	3334.5	3241.1	3056.9	2920.7	2848.6	2819.2	2819.2	2803.2	2760.5
27.5°	3905.8	3865.8	3785.7	3673.6	3417.3	3227.7	3072.9	2998.1	2984.8	2936.7	2856.6
30°	4463.8	4434.4	4319.6	4156.8	3860.4	3617.5	3361.2	3211.7	3203.7	3099.6	2979.4
32.5°	5120.6	5072.5	4944.4	4749.5	4394.4	4052.7	3732.3	3505.4	3492.0	3326.5	3161.0
35°	5964.2	5924.2	5675.9	5481.0	5024.5	4575.9	4196.8	3895.2	3884.5	3681.6	3470.7
37.5°	6976.0	6871.9	6631.6	6265.9	5785.3	5254.1	4773.5	4394.4	4381.0	4156.8	3889.8
40°	7878.4	7785.0	7571.4	7235.0	6719.7	6129.7	5478.3	5019.1	5005.8	4733.5	4397.1
42.5°	8545.8	8481.8	8342.9	8148.1	7779.6	7421.9	6378.0	5774.7	5750.6	5398.2	4979.1
45°	8933.0	8882.2	8802.1	8850.2	8844.9	8778.1	7451.3	6674.4	6596.9	6140.4	5627.8
47.5°	8839.5	8794.1	8826.2	9199.9	9715.2	10102.3	8700.7	7595.4	7491.3	6895.9	6319.3
50°	8164.1	8182.8	8351.0	9066.4	10222.4	11082.1	10086.3	8644.6	8505.8	7656.8	6976.0
52.5°	6933.3	6978.7	7387.2	8388.3	10166.4	11717.5	11338.4	9728.5	9544.3	8399.0	7574.1
55°	5507.7	5622.5	6151.1	7203.0	9434.9	11762.9	12283.5	10817.8	10614.9	9095.8	8094.7
57.5°	4074.0	4244.9	4856.3	5822.7	8033.3	11044.7	12756.0	11859.0	11613.4	9787.3	8644.6
60°	2584.3	2688.4	3393.2	4533.2	6148.4	9288.0	12694.6	12745.3	12531.8	10476.1	9218.6
62.5°	1649.9	1700.6	2055.7	3233.1	4298.3	6877.3	12024.5	13415.5	13271.3	11103.5	9763.2
65°	1059.9	1081.2	1262.8	1989.0	2926.0	4151.4	10355.9	13487.5	13506.2	11495.9	10099.6
67.5°	862.3	873.0	939.7	1228.1	2069.1	2293.3	7213.6	12462.4	12689.3	11394.5	9984.8
70°	784.9	798.3	867.7	979.8	1601.8	1583.2	3492.0	10428.0	10799.1	10809.8	9474.9
72.5°	662.1	680.8	774.2	926.4	1238.8	1249.4	1479.0	7427.2	7974.5	9661.8	8708.7
75°	552.6	563.3	643.4	816.9	1049.2	998.5	1038.5	3937.9	4728.1	7747.6	7894.4
77.5°	448.5	459.2	517.9	651.4	931.7	776.9	816.9	1631.2	2015.7	5259.4	6452.8
80°	320.4	331.0	397.8	507.3	704.8	699.5	606.0	899.7	977.1	2843.3	4191.5
82.5°	229.6	237.6	301.7	363.1	488.6	702.1	456.5	611.4	640.7	1260.1	1689.9
85°	154.8	154.8	208.2	240.3	315.0	443.2	368.4	413.8	432.5	598.0	456.5
87.5°	66.7	66.7	112.1	122.8	165.5	205.6	275.0	208.2	213.6	323.0	186.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P399816

CATALOG NUMBER: ARCH-L-PA3-190-827-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2563.0	2563.0	2563.0	2563.0	2563.0	2563.0	2563.0	2563.0	2563.0	2563.0	2563.0
2.5°	2552.3	2554.9	2560.3	2576.3	2587.0	2603.0	2611.0	2621.7	2621.7	2616.3	2619.0
5°	2546.9	2554.9	2573.6	2603.0	2621.7	2651.1	2672.4	2688.4	2693.8	2688.4	2691.1
7.5°	2544.3	2557.6	2589.6	2632.4	2659.1	2696.4	2725.8	2744.5	2757.8	2752.5	2755.2
10°	2536.3	2557.6	2597.7	2651.1	2691.1	2728.5	2755.2	2763.2	2771.2	2765.9	2763.2
12.5°	2546.9	2571.0	2613.7	2677.8	2723.1	2752.5	2760.5	2747.2	2728.5	2717.8	2715.1
15°	2568.3	2592.3	2635.0	2701.8	2741.8	2752.5	2733.8	2691.1	2648.4	2624.4	2621.7
17.5°	2597.7	2613.7	2648.4	2707.1	2739.2	2725.8	2688.4	2637.7	2605.7	2587.0	2589.6
20°	2616.3	2616.3	2643.0	2688.4	2715.1	2704.4	2659.1	2603.0	2552.3	2528.2	2520.2
22.5°	2643.0	2629.7	2632.4	2672.4	2709.8	2693.8	2597.7	2498.9	2426.8	2400.1	2397.4
25°	2715.1	2677.8	2653.7	2677.8	2765.9	2635.0	2442.8	2328.0	2261.3	2237.2	2239.9
27.5°	2803.2	2752.5	2701.8	2741.8	2811.2	2501.5	2245.3	2114.4	2074.4	2055.7	2063.7
30°	2891.3	2824.6	2757.8	2902.0	2779.2	2293.3	1991.6	1863.5	1828.8	1815.4	1826.1
32.5°	3054.2	2944.7	2864.6	3115.6	2680.4	2055.7	1716.6	1599.2	1567.1	1551.1	1545.8
35°	3326.5	3187.7	3107.6	3302.5	2541.6	1791.4	1465.7	1382.9	1348.2	1313.5	1308.2
37.5°	3719.0	3550.8	3478.7	3409.3	2346.7	1529.8	1273.5	1217.4	1166.7	1113.3	1110.6
40°	4188.8	3969.9	3916.5	3457.3	2077.1	1284.1	1140.0	1086.6	1022.5	971.8	974.5
42.5°	4730.8	4450.5	4335.7	3444.0	1743.3	1153.3	1043.9	985.1	929.1	883.7	881.0
45°	5310.1	4992.4	4728.1	3350.5	1412.3	1062.6	985.1	915.7	859.7	808.9	803.6
47.5°	5950.9	5595.8	5091.2	3169.0	1166.7	998.5	950.4	851.6	800.9	768.9	768.9
50°	6596.9	6172.4	5424.9	2894.0	1022.5	950.4	899.7	816.9	776.9	750.2	750.2
52.5°	7149.6	6773.1	5699.9	2565.6	931.7	910.4	865.0	800.9	758.2	734.2	731.5
55°	7686.2	7331.1	5945.5	2239.9	857.0	857.0	857.0	787.6	739.5	718.2	715.5
57.5°	8220.1	7918.5	6201.8	2026.3	790.2	811.6	841.0	771.6	723.5	704.8	702.1
60°	8823.5	8623.3	6498.2	1876.8	731.5	763.5	819.6	752.9	696.8	680.8	678.1
62.5°	9464.2	9464.2	6767.8	1665.9	678.1	723.5	787.6	728.8	672.8	659.4	656.8
65°	9966.1	10182.4	6941.3	1350.9	624.7	683.5	750.2	696.8	640.7	638.1	632.7
67.5°	10024.9	10363.9	6831.9	1019.8	576.7	640.7	712.8	662.1	608.7	608.7	600.7
70°	9603.1	9947.5	6490.1	763.5	542.0	598.0	664.8	619.4	568.7	574.0	560.6
72.5°	8898.3	8983.7	5641.2	603.4	501.9	552.6	606.0	571.3	525.9	525.9	507.3
75°	7969.2	7494.0	4098.1	504.6	453.9	499.2	547.3	517.9	477.9	464.5	453.9
77.5°	6343.3	5430.3	2381.4	435.2	413.8	448.5	480.6	459.2	424.5	395.1	395.1
80°	3865.8	3182.3	1051.9	376.4	365.8	392.5	413.8	389.8	360.4	331.0	323.0
82.5°	1471.0	1228.1	509.9	323.0	320.4	336.4	352.4	328.4	307.0	293.7	253.6
85°	403.1	371.1	349.7	269.6	264.3	261.6	280.3	269.6	240.3	197.6	176.2
87.5°	152.2	173.5	189.6	165.5	176.2	162.9	186.9	170.9	152.2	98.8	88.1
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)