

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: P399555

Luminaire Tested: **ARCH-L-PA3-160-727-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399555
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-PA3-160-727-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 705mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20780 lumens
Efficiency: N/A
Efficacy: 128.3 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

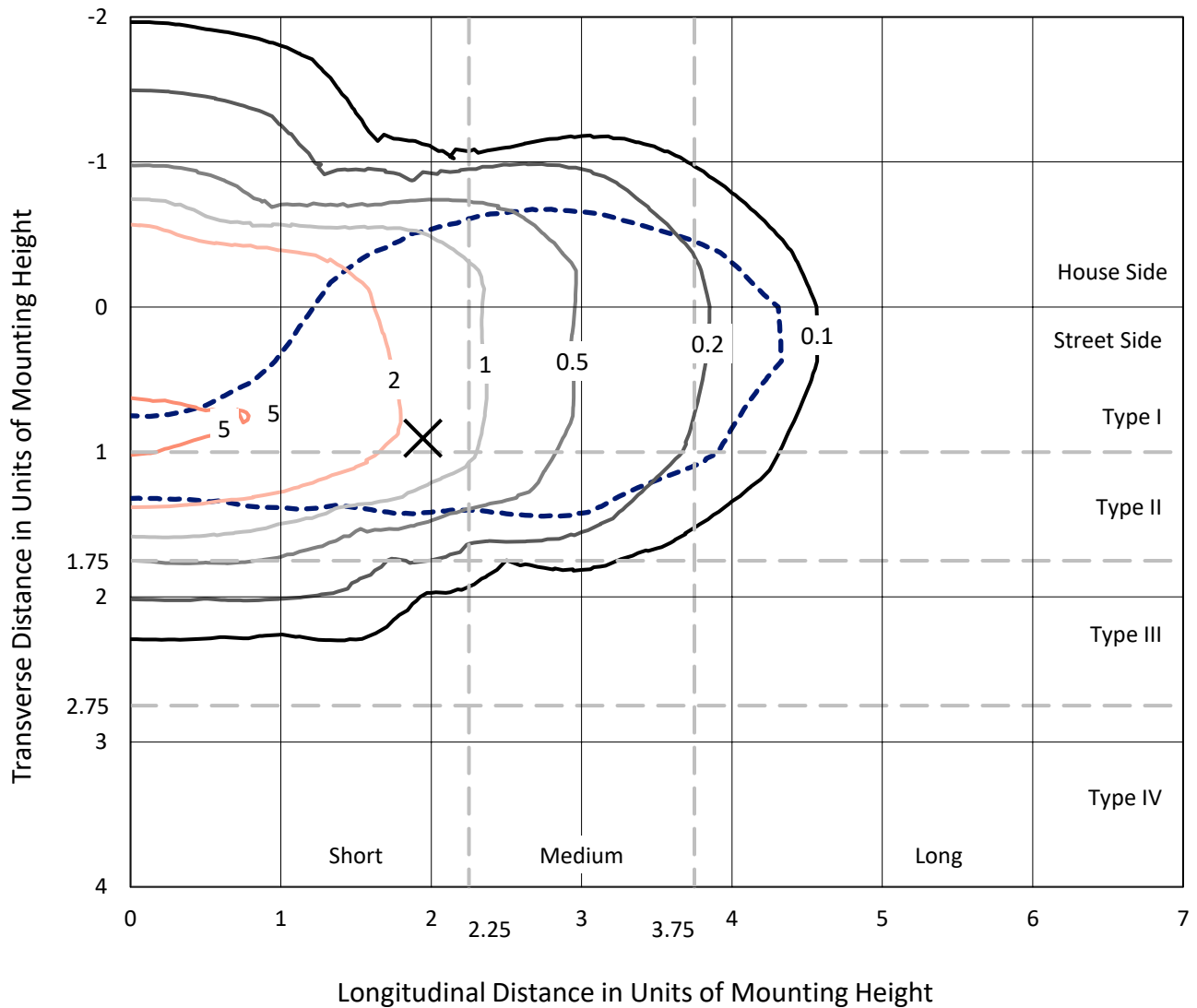
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399555
 CATALOG NUMBER: ARCH-L-PA3-160-727-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

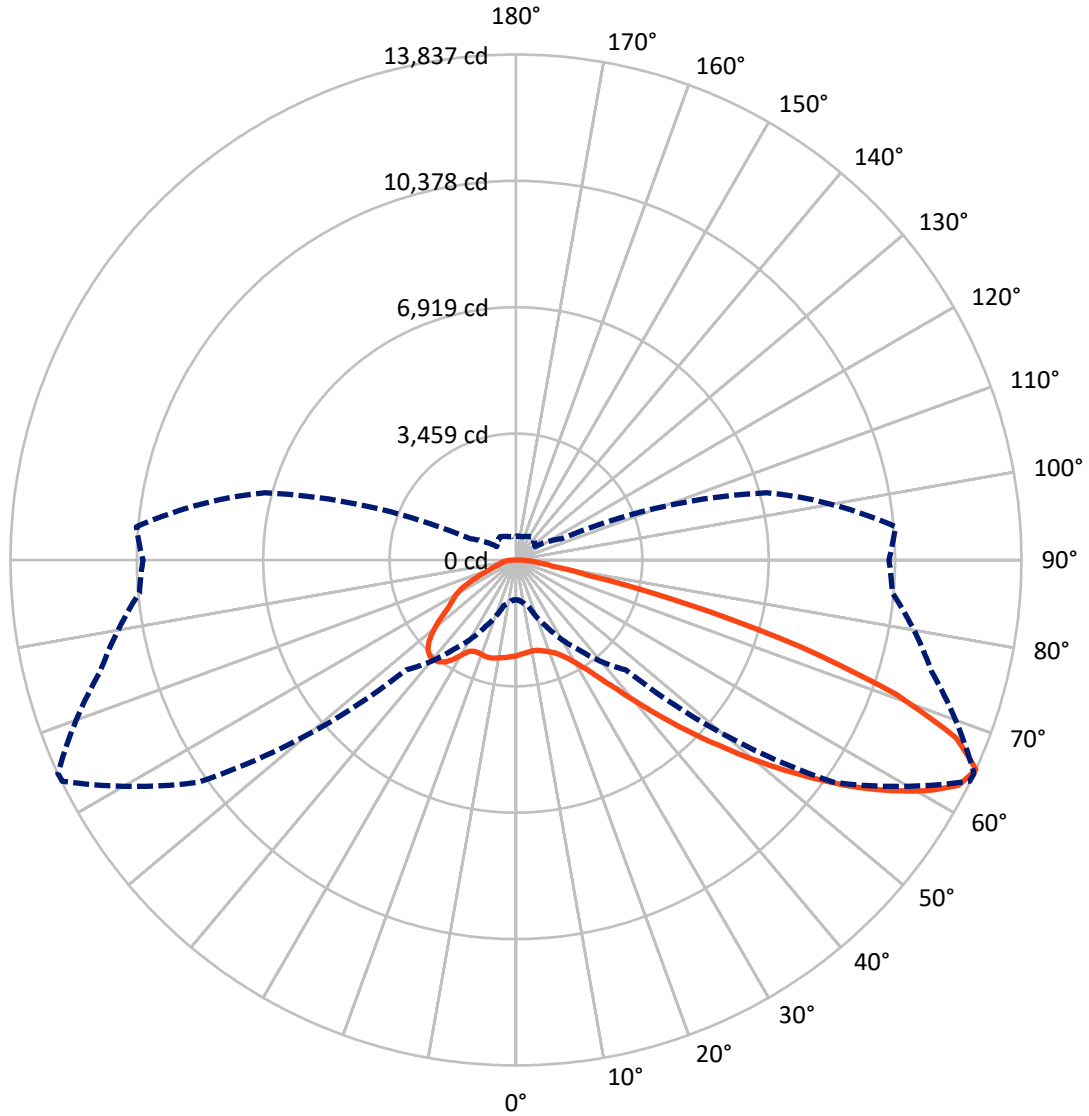
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - N/A

REPORT NUMBER: P399555
CATALOG NUMBER: ARCH-L-PA3-160-727-U-T2U

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: ARCH-L-PA3-160-727-U-T2U

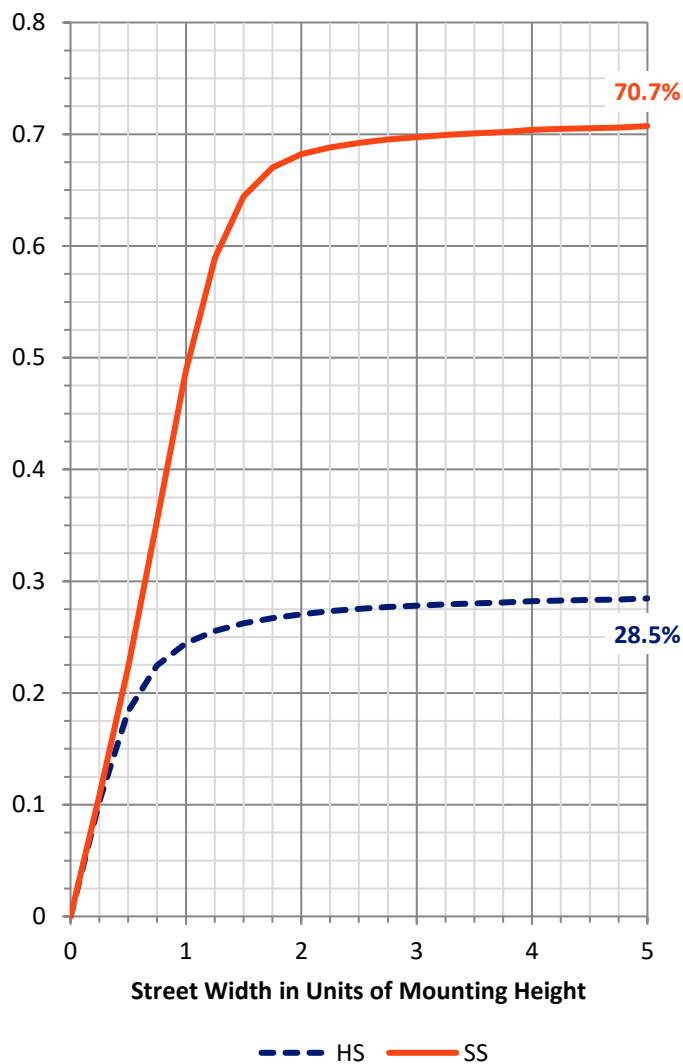
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6007.8	0.0	6007.8
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	14772.2	0.0	14772.2
	% Fixture	71.1	0.0	71.1
Total	Lumens	20780.0	0.0	20780.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.2	1.2
10°-20°	746.9	3.6
20°-30°	1326.7	6.4
30°-40°	2244.4	10.8
40°-50°	3907.0	18.8
50°-60°	5049.1	24.3
60°-70°	4418.3	21.3
70°-80°	2403.2	11.6
80°-90°	434.2	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°	20780.0	100.0
0°-180°	20780.0	100.0

Coefficient of Utilization



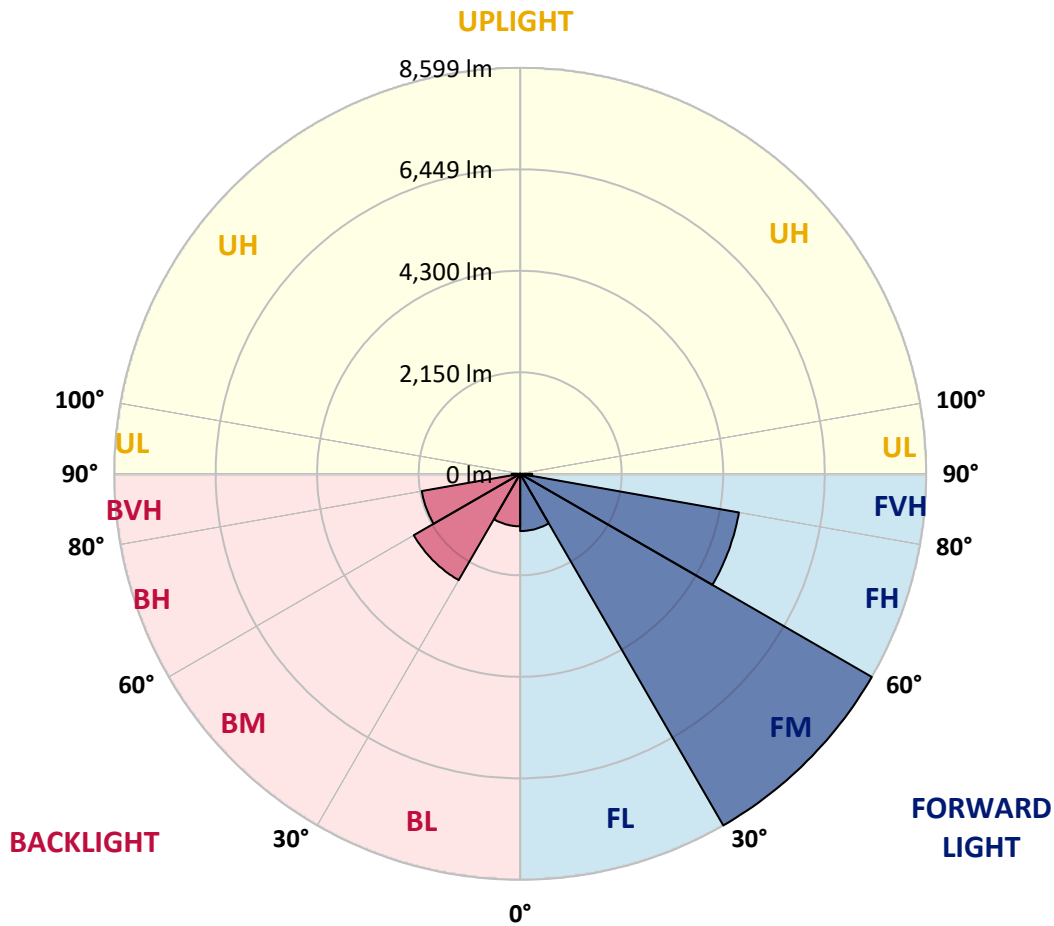
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 CATALOG NUMBER: ARCH-L-PA3-160-727-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1212.5	5.8			
FM (30°-60°)	8599.3	41.4			
FH (60°-80°)	4704.9	22.6			G2/5000
FVH (80°-90°)	255.5	1.2			G3/500
BL (0°-30°)	1111.2	5.3	B3/2500		
BM (30°-60°)	2601.2	12.5	B3/5000		
BH (60°-80°)	2116.6	10.2	B3/2500		G3/2500
BVH (80°-90°)	178.7	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: P399555

CATALOG NUMBER: ARCH-L-PA3-160-727-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2625.8	2625.8	2625.8	2625.8	2625.8	2625.8	2625.8	2625.8	2625.8	2625.8	2625.8
2.5°	2579.3	2576.5	2571.0	2576.5	2579.3	2584.7	2582.0	2587.5	2584.7	2592.9	2606.6
5°	2513.6	2508.1	2505.4	2519.1	2527.3	2541.0	2546.4	2565.6	2562.8	2576.5	2598.4
7.5°	2439.8	2439.8	2437.0	2453.4	2464.4	2489.0	2508.1	2541.0	2543.7	2568.3	2592.9
10°	2382.3	2385.1	2382.3	2396.0	2412.4	2442.5	2475.3	2521.8	2524.6	2560.1	2584.7
12.5°	2360.4	2360.4	2360.4	2379.6	2401.5	2442.5	2480.8	2530.0	2535.5	2573.8	2595.7
15°	2390.5	2393.3	2387.8	2406.9	2431.6	2480.8	2516.3	2568.3	2573.8	2609.3	2623.0
17.5°	2497.2	2508.1	2494.5	2505.4	2499.9	2538.2	2571.0	2623.0	2625.8	2655.8	2661.3
20°	2707.8	2718.7	2696.9	2683.2	2634.0	2631.2	2644.9	2685.9	2685.9	2705.1	2691.4
22.5°	3033.3	3044.2	3005.9	2954.0	2836.4	2778.9	2748.8	2768.0	2765.2	2773.5	2737.9
25°	3465.4	3462.7	3416.2	3320.5	3131.8	2992.3	2918.4	2888.3	2888.3	2871.9	2828.2
27.5°	4001.5	3960.5	3878.5	3763.6	3501.0	3306.8	3148.2	3071.6	3057.9	3008.7	2926.6
30°	4573.2	4543.1	4425.5	4258.6	3955.0	3706.1	3443.6	3290.4	3282.2	3175.5	3052.4
32.5°	5246.0	5196.8	5065.5	4865.8	4502.1	4152.0	3823.8	3591.3	3577.6	3408.0	3238.4
35°	6110.3	6069.3	5814.9	5615.3	5147.6	4688.1	4299.7	3990.6	3979.7	3771.8	3555.7
37.5°	7147.0	7040.3	6794.1	6419.4	5927.1	5382.8	4890.5	4502.1	4488.4	4258.6	3985.1
40°	8071.5	7975.7	7756.9	7412.3	6884.4	6279.9	5612.5	5142.1	5128.4	4849.4	4504.8
42.5°	8755.2	8689.6	8547.4	8347.7	7970.3	7603.7	6534.3	5916.2	5891.5	5530.5	5101.1
45°	9151.8	9099.9	9017.8	9067.1	9061.6	8993.2	7633.8	6837.9	6758.6	6290.9	5765.7
47.5°	9056.1	9009.6	9042.4	9425.4	9953.2	10349.8	8913.9	7781.5	7674.9	7064.9	6474.1
50°	8364.1	8383.3	8555.6	9288.6	10472.9	11353.6	10333.4	8856.4	8714.2	7844.4	7147.0
52.5°	7103.2	7149.7	7568.2	8593.9	10415.5	12004.6	11616.2	9966.9	9778.2	8604.8	7759.6
55°	5642.6	5760.2	6301.8	7379.5	9666.1	12051.1	12584.5	11082.9	10875.0	9318.7	8293.0
57.5°	4173.9	4348.9	4975.3	5965.4	8230.1	11315.4	13068.6	12149.6	11897.9	10027.1	8856.4
60°	2647.6	2754.3	3476.4	4644.3	6299.1	9515.6	13005.7	13057.7	12838.8	10732.8	9444.5
62.5°	1690.3	1742.3	2106.1	3312.3	4403.6	7045.8	12319.2	13744.2	13596.5	11375.5	10002.5
65°	1085.9	1107.7	1293.7	2037.7	2997.7	4253.2	10609.7	13818.0	13837.2	11777.6	10347.1
67.5°	883.5	894.4	962.8	1258.2	2119.7	2349.5	7390.4	12767.7	13000.2	11673.7	10229.5
70°	804.1	817.8	888.9	1003.8	1641.1	1621.9	3577.6	10683.5	11063.7	11074.7	9707.1
72.5°	678.3	697.5	793.2	949.1	1269.1	1280.1	1515.3	7609.2	8169.9	9898.5	8922.1
75°	566.2	577.1	659.2	837.0	1074.9	1022.9	1064.0	4034.4	4844.0	7937.4	8087.9
77.5°	459.5	470.4	530.6	667.4	954.6	795.9	837.0	1671.2	2065.0	5388.3	6610.9
80°	328.2	339.2	407.5	519.7	722.1	716.6	620.9	921.7	1001.1	2912.9	4294.2
82.5°	235.2	243.4	309.1	372.0	500.5	719.3	467.7	626.4	656.4	1291.0	1731.4
85°	158.6	158.6	213.3	246.2	322.7	454.0	377.5	423.9	443.1	612.7	467.7
87.5°	68.4	68.4	114.9	125.8	169.6	210.6	281.7	213.3	218.8	331.0	191.5
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: P399555

CATALOG NUMBER: ARCH-L-PA3-160-727-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2625.8	2625.8	2625.8	2625.8	2625.8	2625.8	2625.8	2625.8	2625.8	2625.8	2625.8
2.5°	2614.8	2617.5	2623.0	2639.4	2650.4	2666.8	2675.0	2685.9	2685.9	2680.5	2683.2
5°	2609.3	2617.5	2636.7	2666.8	2685.9	2716.0	2737.9	2754.3	2759.8	2754.3	2757.0
7.5°	2606.6	2620.3	2653.1	2696.9	2724.2	2762.5	2792.6	2811.7	2825.4	2819.9	2822.7
10°	2598.4	2620.3	2661.3	2716.0	2757.0	2795.3	2822.7	2830.9	2839.1	2833.6	2830.9
12.5°	2609.3	2634.0	2677.7	2743.4	2789.9	2819.9	2828.2	2814.5	2795.3	2784.4	2781.7
15°	2631.2	2655.8	2699.6	2768.0	2809.0	2819.9	2800.8	2757.0	2713.3	2688.7	2685.9
17.5°	2661.3	2677.7	2713.3	2773.5	2806.3	2792.6	2754.3	2702.3	2669.5	2650.4	2653.1
20°	2680.5	2680.5	2707.8	2754.3	2781.7	2770.7	2724.2	2666.8	2614.8	2590.2	2582.0
22.5°	2707.8	2694.1	2696.9	2737.9	2776.2	2759.8	2661.3	2560.1	2486.3	2458.9	2456.2
25°	2781.7	2743.4	2718.7	2743.4	2833.6	2699.6	2502.7	2385.1	2316.7	2292.1	2294.8
27.5°	2871.9	2819.9	2768.0	2809.0	2880.1	2562.8	2300.3	2166.2	2125.2	2106.1	2114.3
30°	2962.2	2893.8	2825.4	2973.1	2847.3	2349.5	2040.4	1909.1	1873.6	1859.9	1870.8
32.5°	3129.0	3016.9	2934.8	3191.9	2746.1	2106.1	1758.7	1638.4	1605.5	1589.1	1583.7
35°	3408.0	3265.8	3183.7	3383.4	2603.9	1835.3	1501.6	1416.8	1381.3	1345.7	1340.2
37.5°	3810.1	3637.8	3563.9	3492.8	2404.2	1567.2	1304.7	1247.2	1195.3	1140.6	1137.8
40°	4291.5	4067.2	4012.5	3542.0	2128.0	1315.6	1167.9	1113.2	1047.6	995.6	998.3
42.5°	4846.7	4559.5	4441.9	3528.4	1786.1	1181.6	1069.4	1009.3	951.8	905.3	902.6
45°	5440.2	5114.7	4844.0	3432.6	1446.9	1088.6	1009.3	938.2	880.7	828.8	823.3
47.5°	6096.7	5732.9	5215.9	3246.6	1195.3	1022.9	973.7	872.5	820.5	787.7	787.7
50°	6758.6	6323.7	5557.8	2964.9	1047.6	973.7	921.7	837.0	795.9	768.6	768.6
52.5°	7324.8	6939.1	5839.6	2628.5	954.6	932.7	886.2	820.5	776.8	752.2	749.4
55°	7874.5	7510.7	6091.2	2294.8	878.0	878.0	878.0	806.9	757.6	735.8	733.0
57.5°	8421.6	8112.5	6353.8	2076.0	809.6	831.5	861.6	790.5	741.2	722.1	719.3
60°	9039.7	8834.6	6657.4	1922.8	749.4	782.3	839.7	771.3	713.9	697.5	694.7
62.5°	9696.1	9696.1	6933.6	1706.7	694.7	741.2	806.9	746.7	689.3	675.6	672.8
65°	10210.4	10431.9	7111.4	1384.0	640.0	700.2	768.6	713.9	656.4	653.7	648.2
67.5°	10270.5	10617.9	6999.3	1044.8	590.8	656.4	730.3	678.3	623.6	623.6	615.4
70°	9838.4	10191.2	6649.2	782.3	555.2	612.7	681.1	634.6	582.6	588.1	574.4
72.5°	9116.3	9203.8	5779.4	618.1	514.2	566.2	620.9	585.3	538.8	538.8	519.7
75°	8164.5	7677.6	4198.5	516.9	465.0	511.5	560.7	530.6	489.6	475.9	465.0
77.5°	6498.7	5563.3	2439.8	445.8	423.9	459.5	492.3	470.4	434.9	404.8	404.8
80°	3960.5	3260.3	1077.7	385.7	374.7	402.1	423.9	399.3	369.2	339.2	331.0
82.5°	1507.1	1258.2	522.4	331.0	328.2	344.6	361.0	336.4	314.5	300.9	259.8
85°	413.0	380.2	358.3	276.3	270.8	268.0	287.2	276.3	246.2	202.4	180.5
87.5°	155.9	177.8	194.2	169.6	180.5	166.8	191.5	175.1	155.9	101.2	90.3
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)