

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: P399420

Luminaire Tested: **ARCH-L-PA3-140-730-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399420
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-PA3-140-730-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 620mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20407 lumens
Efficiency: N/A
Efficacy: 142.7 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

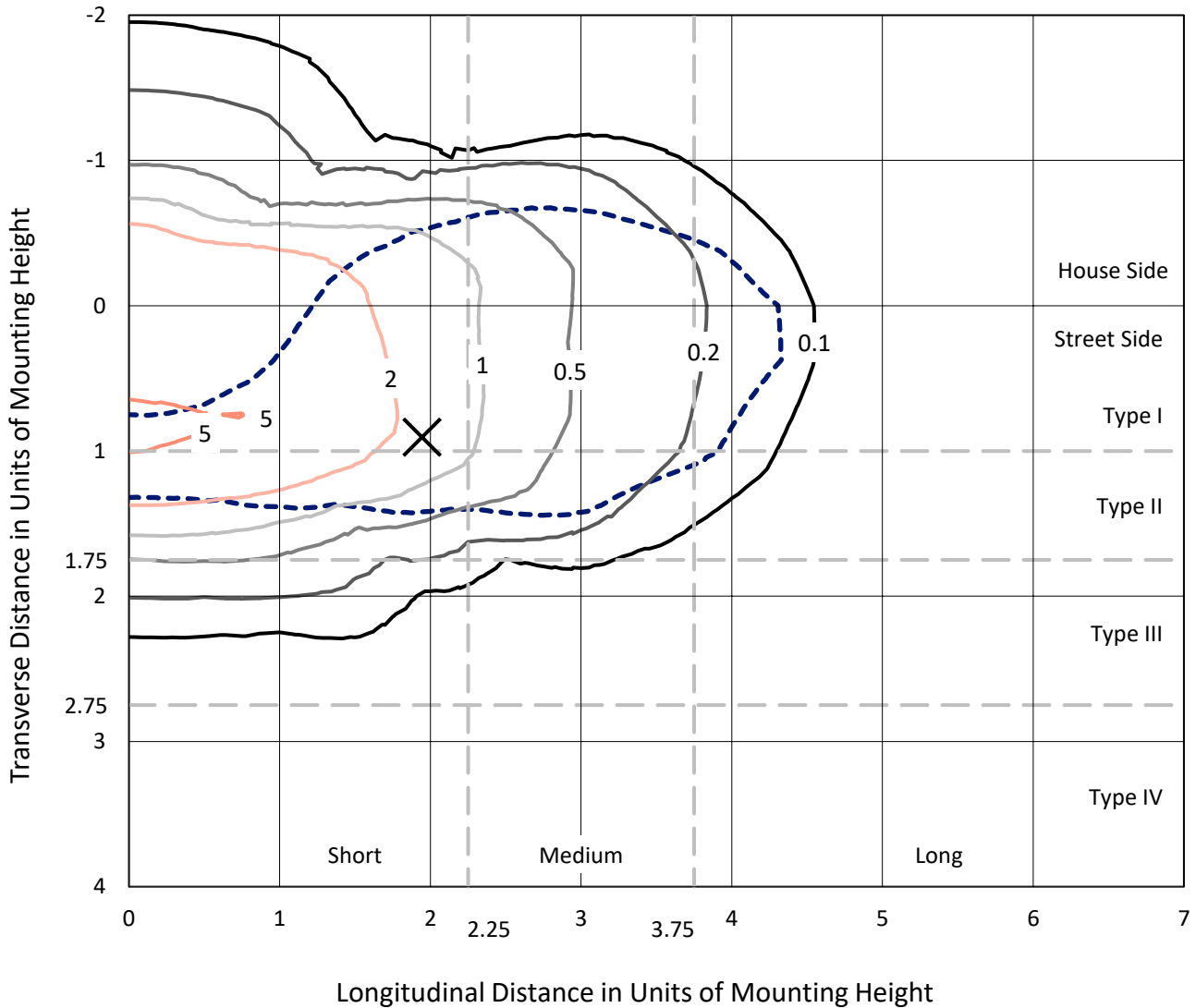
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

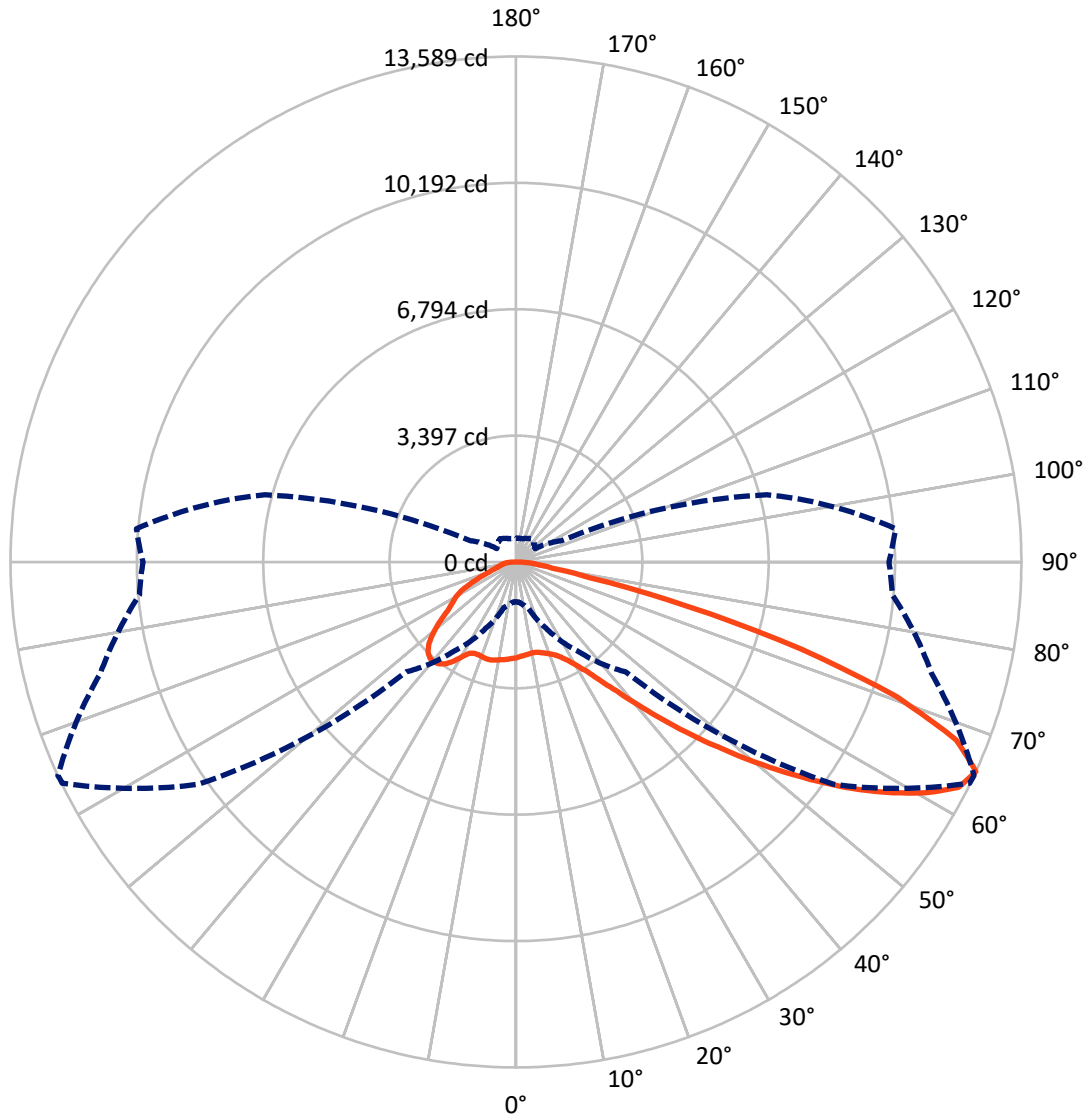
✕ Max cd
 - - - 1/2 Max cd



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

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CATALOG NUMBER: ARCH-L-PA3-140-730-U-T2U

Luminous Intensity Polar Plot



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



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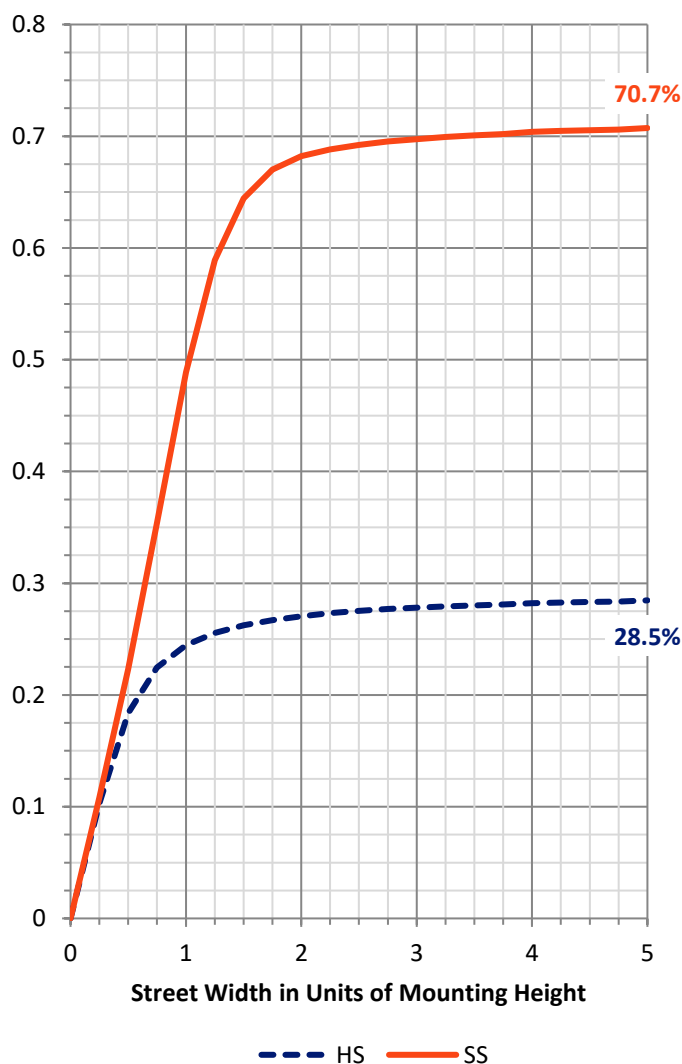
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5900.0	0.0	5900.0
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	14507.0	0.0	14507.0
	% Fixture	71.1	0.0	71.1
Total	Lumens	20407.0	0.0	20407.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.7	1.2
10°-20°	733.5	3.6
20°-30°	1302.9	6.4
30°-40°	2204.1	10.8
40°-50°	3836.9	18.8
50°-60°	4958.5	24.3
60°-70°	4339.0	21.3
70°-80°	2360.1	11.6
80°-90°	426.4	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°	20407.0	100.0
0°-180°	20407.0	100.0

Coefficient of Utilization



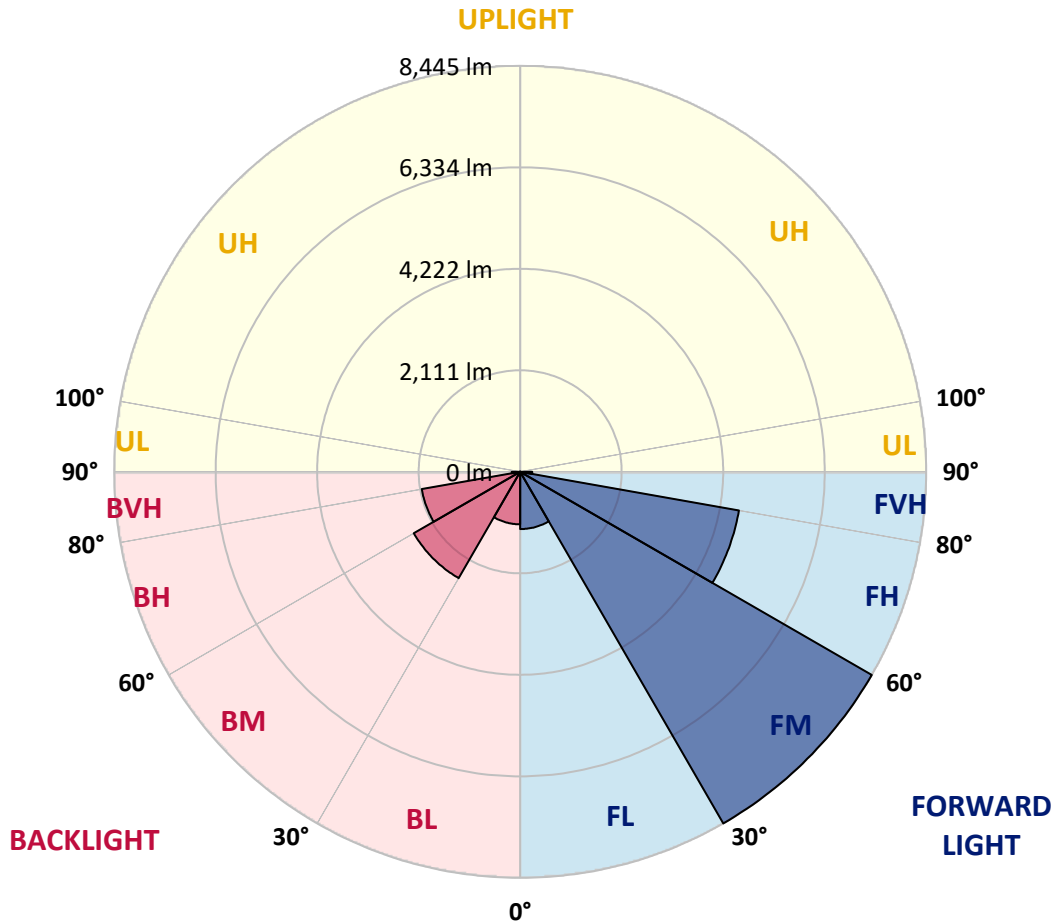
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1190.7	5.8			
FM (30°-60°)	8445.0	41.4			
FH (60°-80°)	4620.4	22.6			G2/5000
FVH (80°-90°)	250.9	1.2			G3/500
BL (0°-30°)	1091.3	5.3	B3/2500		
BM (30°-60°)	2554.6	12.5	B3/5000		
BH (60°-80°)	2078.6	10.2	B3/2500		G3/2500
BVH (80°-90°)	175.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2578.6	2578.6	2578.6	2578.6	2578.6	2578.6	2578.6	2578.6	2578.6	2578.6	2578.6
2.5°	2533.0	2530.3	2524.9	2530.3	2533.0	2538.3	2535.6	2541.0	2538.3	2546.4	2559.8
5°	2468.5	2463.1	2460.4	2473.9	2481.9	2495.4	2500.7	2519.5	2516.8	2530.3	2551.8
7.5°	2396.0	2396.0	2393.3	2409.4	2420.1	2444.3	2463.1	2495.4	2498.0	2522.2	2546.4
10°	2339.6	2342.2	2339.6	2353.0	2369.1	2398.7	2430.9	2476.6	2479.2	2514.2	2538.3
12.5°	2318.1	2318.1	2318.1	2336.9	2358.4	2398.7	2436.3	2484.6	2490.0	2527.6	2549.1
15°	2347.6	2350.3	2344.9	2363.7	2387.9	2436.3	2471.2	2522.2	2527.6	2562.5	2575.9
17.5°	2452.4	2463.1	2449.7	2460.4	2455.1	2492.7	2524.9	2575.9	2578.6	2608.2	2613.5
20°	2659.2	2669.9	2648.5	2635.0	2586.7	2584.0	2597.4	2637.7	2637.7	2656.5	2643.1
22.5°	2978.8	2989.6	2952.0	2900.9	2785.4	2729.0	2699.5	2718.3	2715.6	2723.7	2688.7
25°	3403.2	3400.6	3354.9	3260.9	3075.5	2938.6	2866.0	2836.5	2836.5	2820.4	2777.4
27.5°	3929.7	3889.4	3808.8	3696.0	3438.2	3247.5	3091.7	3016.4	3003.0	2954.7	2874.1
30°	4491.1	4461.6	4346.1	4182.2	3884.0	3639.6	3381.8	3231.3	3223.3	3118.5	2997.6
32.5°	5151.9	5103.5	4974.6	4778.5	4421.3	4077.4	3755.1	3526.8	3513.4	3346.8	3180.3
35°	6000.7	5960.4	5710.6	5514.5	5055.2	4603.9	4222.5	3919.0	3908.2	3704.1	3491.9
37.5°	7018.7	6913.9	6672.2	6304.2	5820.7	5286.2	4802.7	4421.3	4407.8	4182.2	3913.6
40°	7926.6	7832.6	7617.7	7279.2	6760.8	6167.2	5511.8	5049.8	5036.4	4762.4	4423.9
42.5°	8598.1	8533.6	8393.9	8197.9	7827.2	7467.3	6417.0	5810.0	5785.8	5431.2	5009.5
45°	8987.6	8936.5	8856.0	8904.3	8898.9	8831.8	7496.8	6715.2	6637.3	6177.9	5662.2
47.5°	8893.6	8847.9	8880.1	9256.2	9774.6	10164.1	8753.9	7641.9	7537.1	6938.1	6357.9
50°	8214.0	8232.8	8402.0	9121.9	10284.9	11149.8	10147.9	8697.5	8557.8	7703.6	7018.7
52.5°	6975.7	7021.4	7432.3	8439.6	10228.5	11789.1	11407.7	9788.0	9602.7	8450.4	7620.4
55°	5541.3	5656.8	6188.7	7247.0	9492.5	11834.8	12358.6	10883.9	10679.8	9151.4	8144.1
57.5°	4098.9	4270.8	4885.9	5858.3	8082.4	11112.2	12834.0	11931.5	11684.4	9847.1	8697.5
60°	2600.1	2704.9	3414.0	4560.9	6186.0	9344.8	12772.2	12823.3	12608.4	10540.1	9275.0
62.5°	1660.0	1711.0	2068.3	3252.8	4324.6	6919.3	12098.0	13497.5	13352.4	11171.3	9822.9
65°	1066.4	1087.9	1270.5	2001.1	2943.9	4176.8	10419.2	13570.0	13588.8	11566.2	10161.4
67.5°	867.6	878.3	945.5	1235.6	2081.7	2307.3	7257.7	12538.5	12766.9	11464.1	10045.9
70°	789.7	803.1	873.0	985.8	1611.6	1592.8	3513.4	10491.8	10865.1	10875.9	9532.8
72.5°	666.1	684.9	779.0	932.1	1246.3	1257.1	1488.1	7472.6	8023.3	9720.9	8761.9
75°	556.0	566.8	647.3	821.9	1055.6	1004.6	1044.9	3961.9	4757.0	7795.0	7942.7
77.5°	451.3	462.0	521.1	655.4	937.4	781.6	821.9	1641.2	2028.0	5291.5	6492.2
80°	322.3	333.1	400.2	510.4	709.1	703.7	609.7	905.2	983.1	2860.7	4217.1
82.5°	231.0	239.1	303.5	365.3	491.5	706.4	459.3	615.1	644.7	1267.8	1700.3
85°	155.8	155.8	209.5	241.7	317.0	445.9	370.7	416.3	435.1	601.7	459.3
87.5°	67.2	67.2	112.8	123.6	166.5	206.8	276.7	209.5	214.9	325.0	188.0
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°	2578.6	2578.6	2578.6	2578.6	2578.6	2578.6	2578.6	2578.6	2578.6	2578.6	2578.6
2.5°	2567.9	2570.6	2575.9	2592.1	2602.8	2618.9	2627.0	2637.7	2637.7	2632.3	2635.0
5°	2562.5	2570.6	2589.4	2618.9	2637.7	2667.3	2688.7	2704.9	2710.2	2704.9	2707.6
7.5°	2559.8	2573.2	2605.5	2648.5	2675.3	2712.9	2742.5	2761.3	2774.7	2769.3	2772.0
10°	2551.8	2573.2	2613.5	2667.3	2707.6	2745.2	2772.0	2780.1	2788.1	2782.8	2780.1
12.5°	2562.5	2586.7	2629.7	2694.1	2739.8	2769.3	2777.4	2764.0	2745.2	2734.4	2731.7
15°	2584.0	2608.2	2651.1	2718.3	2758.6	2769.3	2750.5	2707.6	2664.6	2640.4	2637.7
17.5°	2613.5	2629.7	2664.6	2723.7	2755.9	2742.5	2704.9	2653.8	2621.6	2602.8	2605.5
20°	2632.3	2632.3	2659.2	2704.9	2731.7	2721.0	2675.3	2618.9	2567.9	2543.7	2535.6
22.5°	2659.2	2645.8	2648.5	2688.7	2726.4	2710.2	2613.5	2514.2	2441.6	2414.8	2412.1
25°	2731.7	2694.1	2669.9	2694.1	2782.8	2651.1	2457.7	2342.2	2275.1	2250.9	2253.6
27.5°	2820.4	2769.3	2718.3	2758.6	2828.4	2516.8	2259.0	2127.4	2087.1	2068.3	2076.3
30°	2909.0	2841.9	2774.7	2919.8	2796.2	2307.3	2003.8	1874.9	1840.0	1826.5	1837.3
32.5°	3072.9	2962.7	2882.1	3134.6	2696.8	2068.3	1727.1	1609.0	1576.7	1560.6	1555.2
35°	3346.8	3207.2	3126.6	3322.7	2557.1	1802.3	1474.6	1391.4	1356.5	1321.5	1316.2
37.5°	3741.7	3572.5	3499.9	3430.1	2361.0	1539.1	1281.3	1224.8	1173.8	1120.1	1117.4
40°	4214.4	3994.2	3940.5	3478.5	2089.8	1292.0	1146.9	1093.2	1028.8	977.7	980.4
42.5°	4759.7	4477.7	4362.2	3465.0	1754.0	1160.4	1050.3	991.2	934.8	889.1	886.4
45°	5342.6	5022.9	4757.0	3371.0	1420.9	1069.1	991.2	921.3	864.9	813.9	808.5
47.5°	5987.2	5630.0	5122.3	3188.4	1173.8	1004.6	956.2	856.9	805.8	773.6	773.6
50°	6637.3	6210.2	5458.1	2911.7	1028.8	956.2	905.2	821.9	781.6	754.8	754.8
52.5°	7193.3	6814.5	5734.7	2581.3	937.4	915.9	870.3	805.8	762.8	738.7	736.0
55°	7733.2	7375.9	5981.9	2253.6	862.2	862.2	862.2	792.4	744.0	722.6	719.9
57.5°	8270.4	7966.9	6239.7	2038.7	795.1	816.6	846.1	776.3	727.9	709.1	706.4
60°	8877.4	8676.0	6537.9	1888.3	736.0	768.2	824.6	757.5	701.1	684.9	682.3
62.5°	9522.1	9522.1	6809.2	1676.1	682.3	727.9	792.4	733.3	676.9	663.5	660.8
65°	10027.1	10244.6	6983.8	1359.1	628.5	687.6	754.8	701.1	644.7	642.0	636.6
67.5°	10086.2	10427.3	6873.6	1026.1	580.2	644.7	717.2	666.1	612.4	612.4	604.4
70°	9661.8	10008.3	6529.8	768.2	545.3	601.7	668.8	623.2	572.1	577.5	564.1
72.5°	8952.6	9038.6	5675.7	607.1	505.0	556.0	609.7	574.8	529.2	529.2	510.4
75°	8017.9	7539.8	4123.1	507.7	456.6	502.3	550.6	521.1	480.8	467.4	456.6
77.5°	6382.1	5463.5	2396.0	437.8	416.3	451.3	483.5	462.0	427.1	397.5	397.5
80°	3889.4	3201.8	1058.3	378.7	368.0	394.9	416.3	392.2	362.6	333.1	325.0
82.5°	1480.0	1235.6	513.0	325.0	322.3	338.4	354.6	330.4	308.9	295.5	255.2
85°	405.6	373.4	351.9	271.3	265.9	263.2	282.0	271.3	241.7	198.8	177.3
87.5°	153.1	174.6	190.7	166.5	177.3	163.8	188.0	171.9	153.1	99.4	88.6
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)