

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: P400320

Luminaire Tested: **ARCH-L-PA3-260-827-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400320
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-PA3-260-827-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25176 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

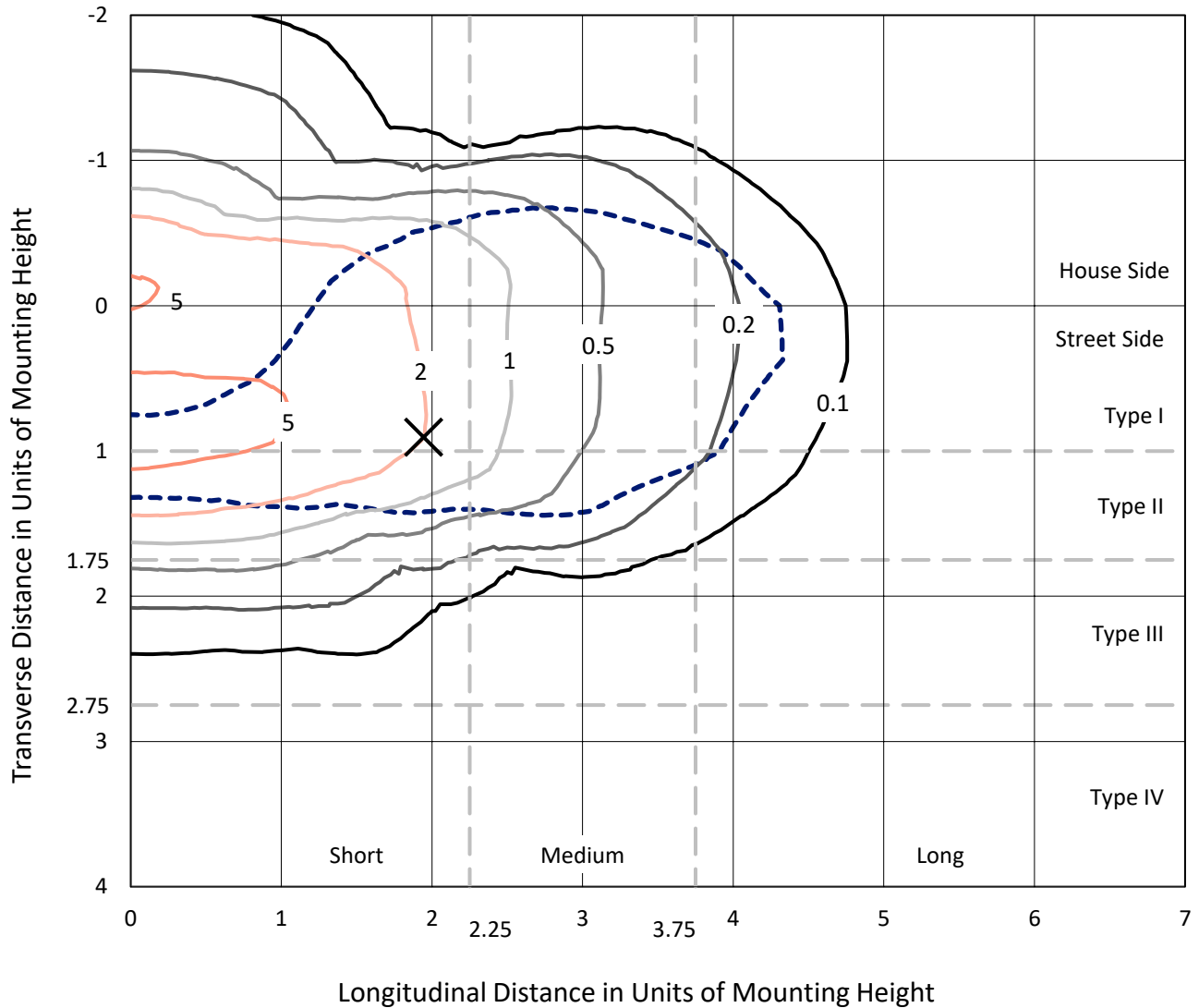
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

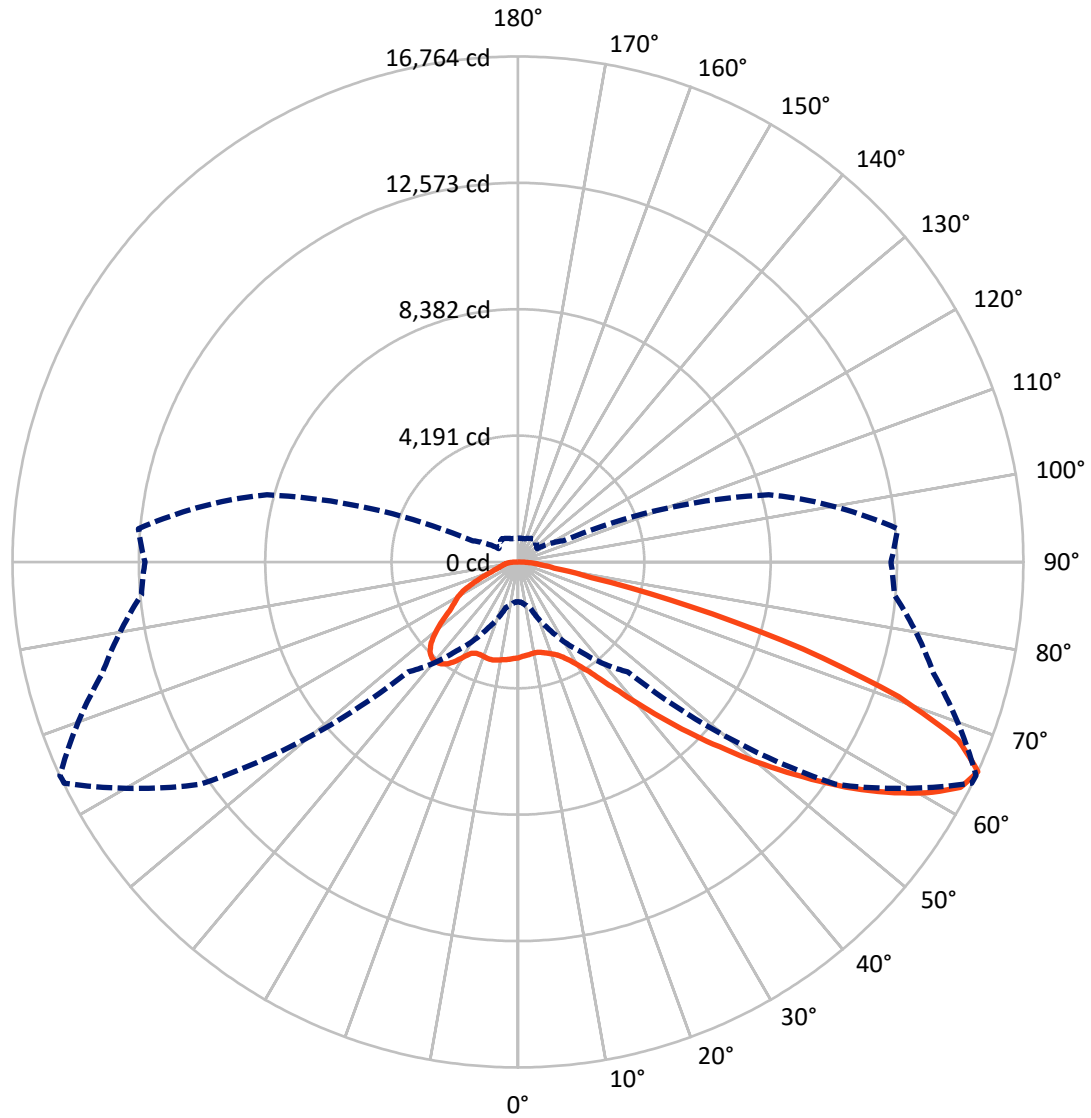
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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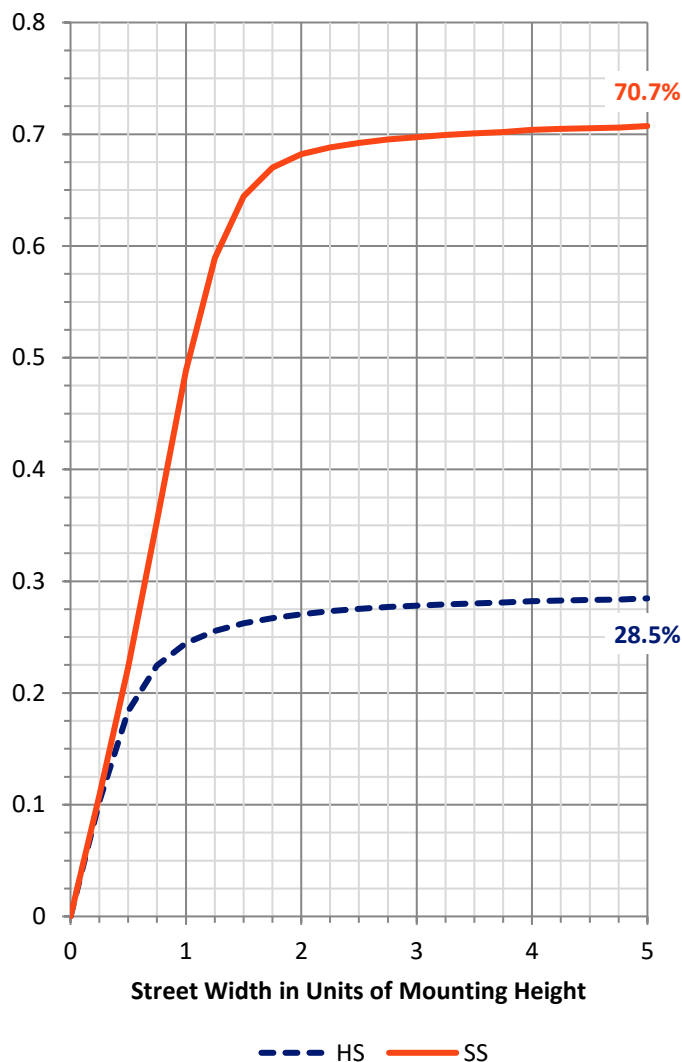
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7278.7	0.0	7278.7
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	17897.3	0.0	17897.3
	% Fixture	71.1	0.0	71.1
Total	Lumens	25176.0	0.0	25176.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.1	1.2
10°-20°	904.9	3.6
20°-30°	1607.3	6.4
30°-40°	2719.2	10.8
40°-50°	4733.6	18.8
50°-60°	6117.3	24.3
60°-70°	5353.0	21.3
70°-80°	2911.6	11.6
80°-90°	526.1	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°	25176.0	100.0
0°-180°	25176.0	100.0

Coefficient of Utilization



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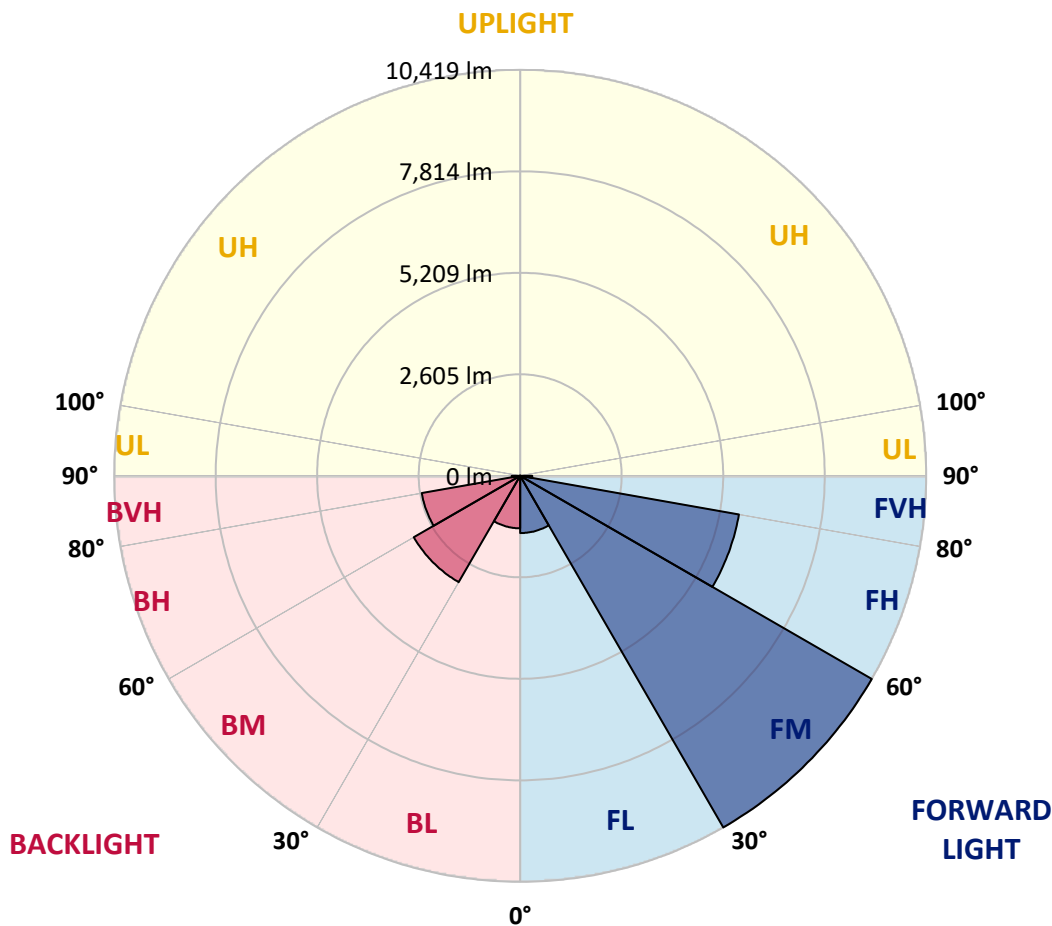
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1469.0	5.8			
FM (30°-60°)	10418.5	41.4			
FH (60°-80°)	5700.2	22.6			G3/7500
FVH (80°-90°)	309.6	1.2			G3/500
BL (0°-30°)	1346.3	5.3	B3/2500		
BM (30°-60°)	3151.5	12.5	B3/5000		
BH (60°-80°)	2564.4	10.2	B4/5000		G4/5000
BVH (80°-90°)	216.5	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2
2.5°	3124.9	3121.6	3115.0	3121.6	3124.9	3131.5	3128.2	3134.8	3131.5	3141.5	3158.0
5°	3045.4	3038.7	3035.4	3052.0	3061.9	3078.5	3085.1	3108.3	3105.0	3121.6	3148.1
7.5°	2955.9	2955.9	2952.6	2972.5	2985.7	3015.5	3038.7	3078.5	3081.8	3111.6	3141.5
10°	2886.3	2889.6	2886.3	2902.9	2922.8	2959.2	2999.0	3055.3	3058.6	3101.7	3131.5
12.5°	2859.8	2859.8	2859.8	2883.0	2909.5	2959.2	3005.6	3065.2	3071.9	3118.3	3144.8
15°	2896.2	2899.6	2892.9	2916.1	2946.0	3005.6	3048.7	3111.6	3118.3	3161.3	3177.9
17.5°	3025.5	3038.7	3022.2	3035.4	3028.8	3075.2	3115.0	3177.9	3181.2	3217.7	3224.3
20°	3280.6	3293.9	3267.4	3250.8	3191.2	3187.9	3204.4	3254.1	3254.1	3277.3	3260.8
22.5°	3675.0	3688.2	3641.8	3578.9	3436.4	3366.8	3330.4	3353.5	3350.2	3360.2	3317.1
25°	4198.6	4195.2	4138.9	4022.9	3794.3	3625.3	3535.8	3499.4	3499.4	3479.5	3426.4
27.5°	4848.1	4798.4	4698.9	4559.8	4241.6	4006.4	3814.2	3721.4	3704.8	3645.2	3545.7
30°	5540.6	5504.2	5361.7	5159.6	4791.7	4490.2	4172.1	3986.5	3976.5	3847.3	3698.2
32.5°	6355.8	6296.2	6137.1	5895.2	5454.5	5030.3	4632.7	4351.0	4334.4	4129.0	3923.5
35°	7403.0	7353.3	7045.1	6803.2	6236.5	5679.8	5209.3	4834.8	4821.6	4569.7	4307.9
37.5°	8658.9	8529.7	8231.4	7777.4	7181.0	6521.5	5925.0	5454.5	5437.9	5159.6	4828.2
40°	9779.0	9663.0	9397.9	8980.3	8340.8	7608.4	6799.9	6229.9	6213.3	5875.3	5457.8
42.5°	10607.4	10527.9	10355.6	10113.7	9656.4	9212.3	7916.6	7167.7	7137.9	6700.5	6180.2
45°	11087.9	11025.0	10925.5	10985.2	10978.6	10895.7	9248.8	8284.5	8188.4	7621.7	6985.5
47.5°	10971.9	10915.6	10955.4	11419.3	12058.9	12539.3	10799.6	9427.7	9298.5	8559.5	7843.7
50°	10133.5	10156.7	10365.5	11253.6	12688.5	13755.5	12519.5	10730.0	10557.7	9503.9	8658.9
52.5°	8605.9	8662.2	9169.2	10411.9	12618.9	14544.2	14073.6	12075.4	11846.8	10425.2	9401.2
55°	6836.3	6978.8	7635.0	8940.6	11710.9	14600.5	15246.7	13427.4	13175.6	11290.1	10047.4
57.5°	5056.8	5268.9	6027.8	7227.4	9971.2	13709.1	15833.2	14719.8	14414.9	12148.3	10730.0
60°	3207.7	3337.0	4211.8	5626.8	7631.6	11528.6	15757.0	15820.0	15554.9	13003.3	11442.5
62.5°	2047.9	2110.9	2551.6	4013.0	5335.2	8536.3	14925.3	16651.8	16472.8	13782.0	12118.5
65°	1315.6	1342.1	1567.4	2468.8	3631.9	5152.9	12854.2	16741.2	16764.4	14269.1	12536.0
67.5°	1070.4	1083.6	1166.5	1524.3	2568.2	2846.5	8953.8	15468.7	15750.4	14143.2	12393.5
70°	974.3	990.8	1077.0	1216.2	1988.3	1965.1	4334.4	12943.6	13404.2	13417.5	11760.6
72.5°	821.8	845.0	961.0	1149.9	1537.6	1550.8	1835.8	9218.9	9898.3	11992.6	10809.6
75°	686.0	699.2	798.6	1014.0	1302.3	1239.4	1289.1	4887.8	5868.7	9616.6	9798.9
77.5°	556.7	570.0	642.9	808.6	1156.5	964.3	1014.0	2024.7	2501.9	6528.1	8009.4
80°	397.7	410.9	493.8	629.6	874.8	868.2	752.2	1116.7	1212.8	3529.2	5202.6
82.5°	285.0	294.9	374.5	450.7	606.4	871.5	566.7	758.9	795.3	1564.1	2097.6
85°	192.2	192.2	258.5	298.2	391.0	550.1	457.3	513.6	536.8	742.3	566.7
87.5°	82.8	82.8	139.2	152.4	205.5	255.2	341.3	258.5	265.1	401.0	232.0
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°	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2
2.5°	3168.0	3171.3	3177.9	3197.8	3211.1	3230.9	3240.9	3254.1	3254.1	3247.5	3250.8
5°	3161.3	3171.3	3194.5	3230.9	3254.1	3290.6	3317.1	3337.0	3343.6	3337.0	3340.3
7.5°	3158.0	3174.6	3214.4	3267.4	3300.5	3346.9	3383.4	3406.6	3423.1	3416.5	3419.8
10°	3148.1	3174.6	3224.3	3290.6	3340.3	3386.7	3419.8	3429.8	3439.7	3433.1	3429.8
12.5°	3161.3	3191.2	3244.2	3323.7	3380.1	3416.5	3426.4	3409.9	3386.7	3373.4	3370.1
15°	3187.9	3217.7	3270.7	3353.5	3403.3	3416.5	3393.3	3340.3	3287.3	3257.4	3254.1
17.5°	3224.3	3244.2	3287.3	3360.2	3399.9	3383.4	3337.0	3274.0	3234.3	3211.1	3214.4
20°	3247.5	3247.5	3280.6	3337.0	3370.1	3356.9	3300.5	3230.9	3168.0	3138.2	3128.2
22.5°	3280.6	3264.1	3267.4	3317.1	3363.5	3343.6	3224.3	3101.7	3012.2	2979.1	2975.8
25°	3370.1	3323.7	3293.9	3323.7	3433.1	3270.7	3032.1	2889.6	2806.8	2776.9	2780.3
27.5°	3479.5	3416.5	3353.5	3403.3	3489.4	3105.0	2786.9	2624.5	2574.8	2551.6	2561.6
30°	3588.8	3506.0	3423.1	3602.1	3449.6	2846.5	2472.1	2313.0	2269.9	2253.4	2266.6
32.5°	3791.0	3655.1	3555.7	3867.2	3327.0	2551.6	2130.8	1985.0	1945.2	1925.3	1918.7
35°	4129.0	3956.7	3857.2	4099.1	3154.7	2223.5	1819.3	1716.5	1673.5	1630.4	1623.8
37.5°	4616.1	4407.3	4317.9	4231.7	2912.8	1898.8	1580.7	1511.1	1448.1	1381.8	1378.5
40°	5199.3	4927.6	4861.3	4291.3	2578.1	1593.9	1415.0	1348.7	1269.2	1206.2	1209.5
42.5°	5872.0	5524.1	5381.6	4274.8	2163.9	1431.6	1295.7	1222.8	1153.2	1096.9	1093.5
45°	6591.1	6196.8	5868.7	4158.8	1753.0	1318.9	1222.8	1136.6	1067.0	1004.1	997.4
47.5°	7386.4	6945.7	6319.4	3933.5	1448.1	1239.4	1179.7	1057.1	994.1	954.4	954.4
50°	8188.4	7661.5	6733.6	3592.1	1269.2	1179.7	1116.7	1014.0	964.3	931.2	931.2
52.5°	8874.3	8407.1	7074.9	3184.5	1156.5	1130.0	1073.7	994.1	941.1	911.3	908.0
55°	9540.4	9099.6	7379.8	2780.3	1063.7	1063.7	1063.7	977.6	917.9	891.4	888.1
57.5°	10203.1	9828.7	7697.9	2515.2	980.9	1007.4	1043.8	957.7	898.0	874.8	871.5
60°	10952.0	10703.5	8065.7	2329.6	908.0	947.7	1017.3	934.5	864.9	845.0	841.7
62.5°	11747.4	11747.4	8400.4	2067.8	841.7	898.0	977.6	904.7	835.1	818.5	815.2
65°	12370.3	12638.8	8615.8	1676.8	775.4	848.3	931.2	864.9	795.3	792.0	785.4
67.5°	12443.2	12864.1	8480.0	1265.9	715.8	795.3	884.8	821.8	755.5	755.5	745.6
70°	11919.7	12347.1	8055.8	947.7	672.7	742.3	825.1	768.8	705.8	712.5	695.9
72.5°	11044.8	11150.9	7002.0	748.9	623.0	686.0	752.2	709.1	652.8	652.8	629.6
75°	9891.6	9301.8	5086.7	626.3	563.3	619.7	679.3	642.9	593.2	576.6	563.3
77.5°	7873.5	6740.2	2955.9	540.1	513.6	556.7	596.5	570.0	526.9	490.4	490.4
80°	4798.4	3950.0	1305.6	467.2	454.0	487.1	513.6	483.8	447.4	410.9	401.0
82.5°	1825.9	1524.3	632.9	401.0	397.7	417.5	437.4	407.6	381.1	364.5	314.8
85°	500.4	460.6	434.1	334.7	328.1	324.8	347.9	334.7	298.2	245.2	218.7
87.5°	188.9	215.4	235.3	205.5	218.7	202.1	232.0	212.1	188.9	122.6	109.4
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)