

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: P399780

Luminaire Tested: **ARCH-L-PA3-190-730-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399780
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-PA3-190-730-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 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: 25128 lumens
Efficiency: N/A
Efficacy: 133.0 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

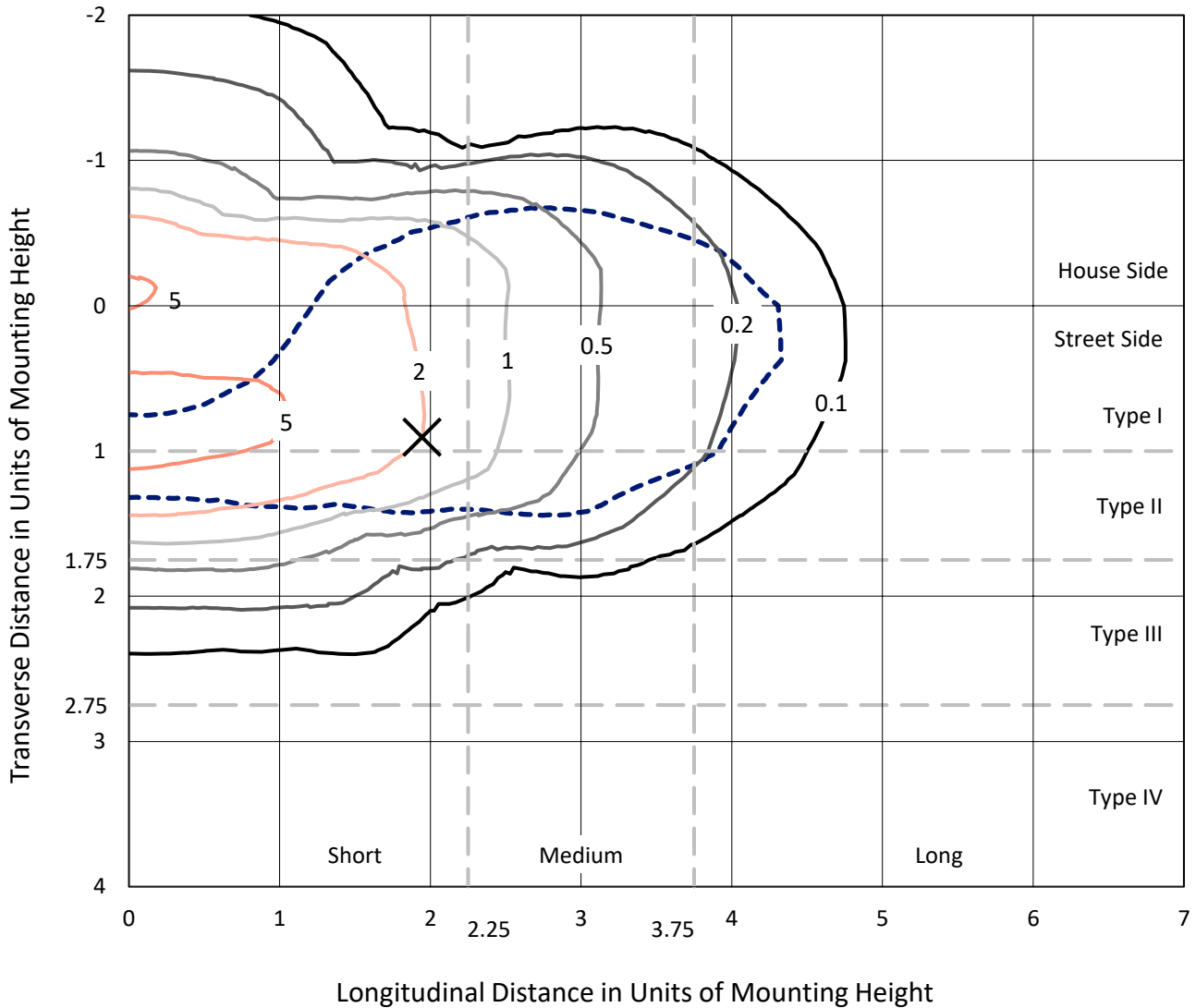
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

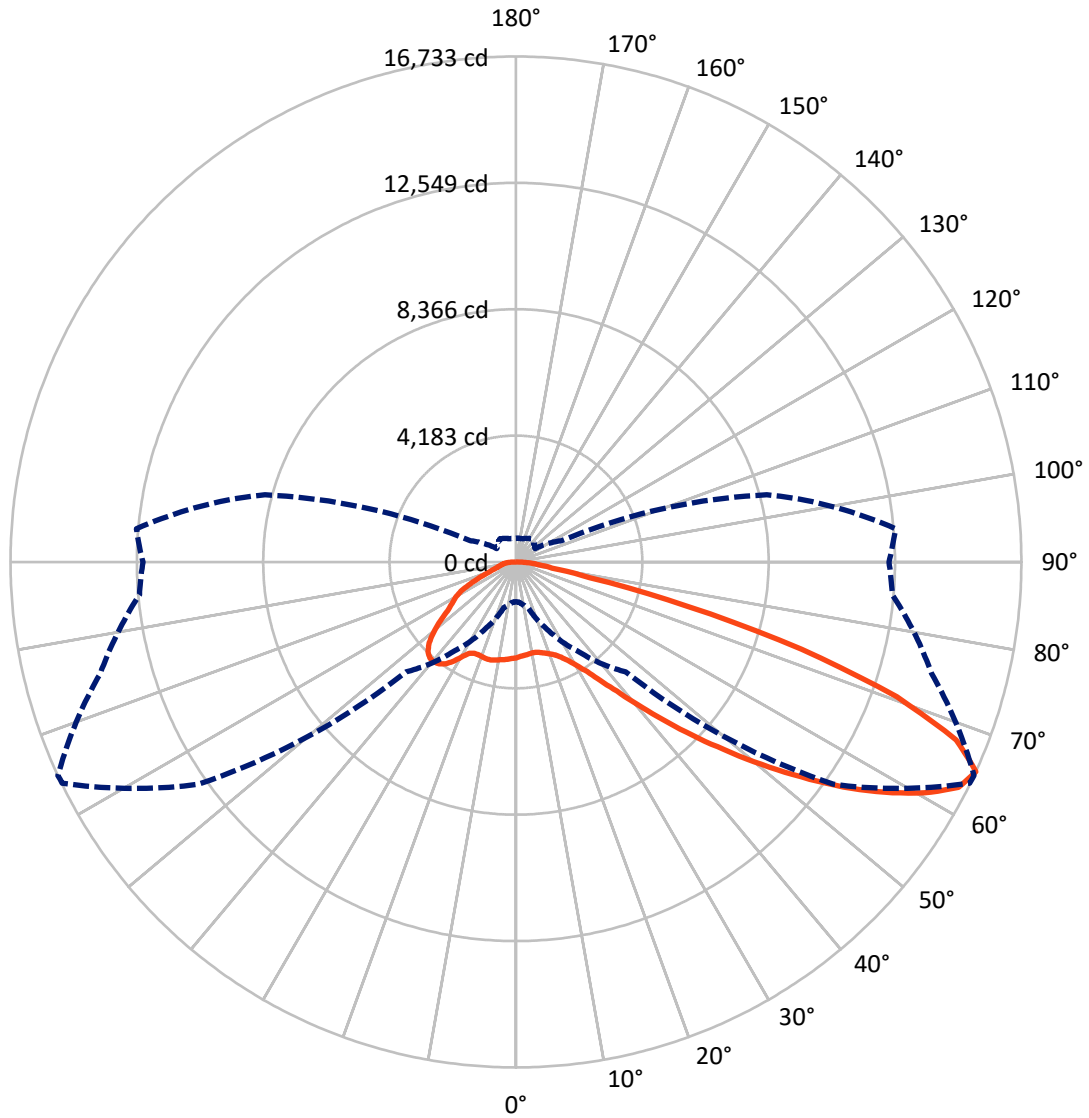
✕ Max cd
 - - - 1/2 Max cd



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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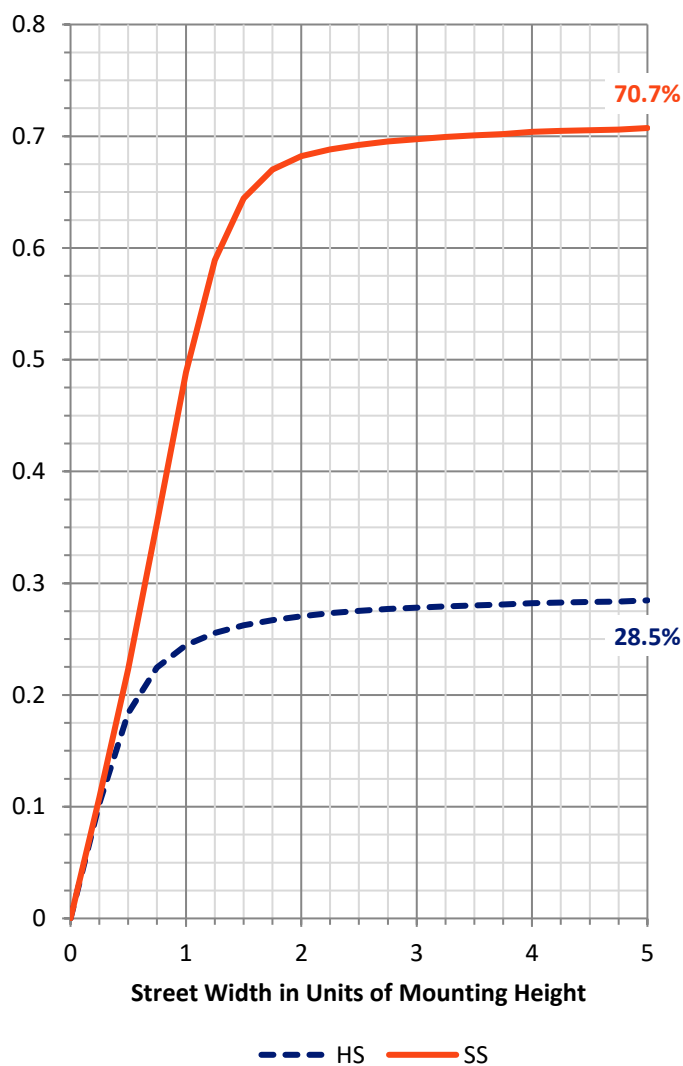
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7264.9	0.0	7264.9
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	17863.1	0.0	17863.1
	% Fixture	71.1	0.0	71.1
Total	Lumens	25128.0	0.0	25128.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.5	1.2
10°-20°	903.1	3.6
20°-30°	1604.3	6.4
30°-40°	2714.0	10.8
40°-50°	4724.6	18.8
50°-60°	6105.6	24.3
60°-70°	5342.8	21.3
70°-80°	2906.1	11.6
80°-90°	525.1	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°	25128.0	100.0
0°-180°	25128.0	100.0

Coefficient of Utilization

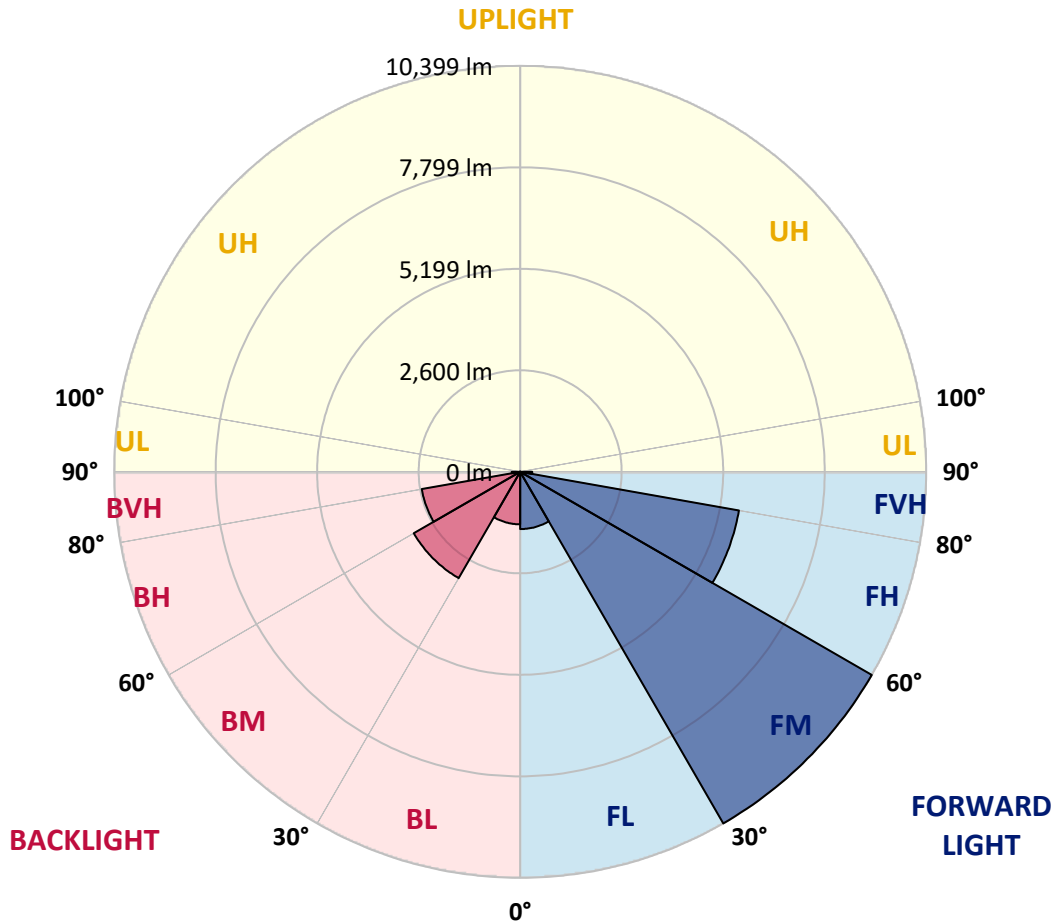


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1466.2	5.8			
FM (30°-60°)	10398.7	41.4			
FH (60°-80°)	5689.3	22.6			G3/7500
FVH (80°-90°)	309.0	1.2			G3/500
BL (0°-30°)	1343.7	5.3	B3/2500		
BM (30°-60°)	3145.5	12.5	B3/5000		
BH (60°-80°)	2559.5	10.2	B4/5000		G4/5000
BVH (80°-90°)	216.1	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°	3175.2	3175.2	3175.2	3175.2	3175.2	3175.2	3175.2	3175.2	3175.2	3175.2	3175.2
2.5°	3118.9	3115.6	3109.0	3115.6	3118.9	3125.6	3122.2	3128.9	3125.6	3135.5	3152.0
5°	3039.6	3032.9	3029.6	3046.2	3056.1	3072.6	3079.2	3102.4	3099.1	3115.6	3142.1
7.5°	2950.3	2950.3	2946.9	2966.8	2980.0	3009.8	3032.9	3072.6	3075.9	3105.7	3135.5
10°	2880.8	2884.1	2880.8	2897.3	2917.2	2953.6	2993.3	3049.5	3052.8	3095.8	3125.6
12.5°	2854.3	2854.3	2854.3	2877.5	2904.0	2953.6	2999.9	3059.4	3066.0	3112.3	3138.8
15°	2890.7	2894.0	2887.4	2910.6	2940.3	2999.9	3042.9	3105.7	3112.3	3155.3	3171.9
17.5°	3019.7	3032.9	3016.4	3029.6	3023.0	3069.3	3109.0	3171.9	3175.2	3211.5	3218.2
20°	3274.4	3287.6	3261.2	3244.6	3185.1	3181.8	3198.3	3247.9	3247.9	3271.1	3254.5
22.5°	3668.0	3681.2	3634.9	3572.1	3429.8	3360.4	3324.0	3347.2	3343.8	3353.8	3310.8
25°	4190.6	4187.2	4131.0	4015.3	3787.0	3618.4	3529.1	3492.7	3492.7	3472.8	3419.9
27.5°	4838.8	4789.2	4690.0	4551.1	4233.6	3998.7	3806.9	3714.3	3697.7	3638.2	3539.0
30°	5530.1	5493.7	5351.5	5149.7	4782.6	4481.6	4164.1	3978.9	3969.0	3840.0	3691.1
32.5°	6343.7	6284.2	6125.4	5884.0	5444.1	5020.7	4623.8	4342.7	4326.2	4121.1	3916.0
35°	7388.9	7339.3	7031.7	6790.2	6224.6	5669.0	5199.3	4825.6	4812.4	4561.0	4299.7
37.5°	8642.4	8513.4	8215.7	7762.6	7167.3	6509.1	5913.7	5444.1	5427.5	5149.7	4819.0
40°	9760.3	9644.6	9380.0	8963.2	8324.9	7593.9	6786.9	6218.0	6201.5	5864.1	5447.4
42.5°	10587.2	10507.8	10335.8	10094.4	9637.9	9194.7	7901.5	7154.0	7124.3	6687.7	6168.4
45°	11066.8	11003.9	10904.7	10964.2	10957.6	10874.9	9231.1	8268.7	8172.7	7607.2	6972.1
47.5°	10951.0	10894.8	10934.5	11397.5	12035.9	12515.4	10779.0	9409.7	9280.7	8543.2	7828.8
50°	10114.2	10137.4	10345.7	11232.1	12664.3	13729.3	12495.6	10709.6	10537.6	9485.8	8642.4
52.5°	8589.5	8645.7	9151.8	10392.0	12594.8	14516.5	14046.8	12052.4	11824.2	10405.3	9383.3
55°	6823.3	6965.5	7620.4	8923.5	11688.6	14572.7	15217.6	13401.8	13150.5	11268.5	10028.2
57.5°	5047.2	5258.9	6016.3	7213.6	9952.2	13683.0	15803.1	14691.8	14387.5	12125.2	10709.6
60°	3201.6	3330.6	4203.8	5616.1	7617.1	11506.7	15727.0	15789.8	15525.2	12978.5	11420.7
62.5°	2044.0	2106.9	2546.7	4005.3	5325.0	8520.0	14896.8	16620.0	16441.4	13755.7	12095.4
65°	1313.1	1339.5	1564.4	2464.1	3625.0	5143.1	12829.7	16709.3	16732.5	14241.9	12512.1
67.5°	1068.3	1081.5	1164.2	1521.4	2563.3	2841.1	8936.8	15439.2	15720.4	14116.3	12369.9
70°	972.4	988.9	1074.9	1213.8	1984.5	1961.3	4326.2	12919.0	13378.7	13391.9	11738.2
72.5°	820.3	843.4	959.2	1147.7	1534.7	1547.9	1832.3	9201.4	9879.4	11969.7	10788.9
75°	684.6	697.9	797.1	1012.1	1299.8	1237.0	1286.6	4878.5	5857.5	9598.3	9780.2
77.5°	555.7	568.9	641.6	807.0	1154.3	962.5	1012.1	2020.9	2497.1	6515.7	7994.1
80°	396.9	410.1	492.8	628.4	873.2	866.6	750.8	1114.6	1210.5	3522.4	5192.7
82.5°	284.4	294.4	373.7	449.8	605.3	869.9	565.6	757.4	793.8	1561.1	2093.6
85°	191.8	191.8	258.0	297.7	390.3	549.0	456.4	512.7	535.8	740.9	565.6
87.5°	82.7	82.7	138.9	152.1	205.1	254.7	340.7	258.0	264.6	400.2	231.5
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°	3175.2	3175.2	3175.2	3175.2	3175.2	3175.2	3175.2	3175.2	3175.2	3175.2	3175.2
2.5°	3161.9	3165.2	3171.9	3191.7	3204.9	3224.8	3234.7	3247.9	3247.9	3241.3	3244.6
5°	3155.3	3165.2	3188.4	3224.8	3247.9	3284.3	3310.8	3330.6	3337.2	3330.6	3333.9
7.5°	3152.0	3168.5	3208.2	3261.2	3294.2	3340.5	3376.9	3400.1	3416.6	3410.0	3413.3
10°	3142.1	3168.5	3218.2	3284.3	3333.9	3380.2	3413.3	3423.2	3433.1	3426.5	3423.2
12.5°	3155.3	3185.1	3238.0	3317.4	3373.6	3410.0	3419.9	3403.4	3380.2	3367.0	3363.7
15°	3181.8	3211.5	3264.5	3347.2	3396.8	3410.0	3386.8	3333.9	3281.0	3251.2	3247.9
17.5°	3218.2	3238.0	3281.0	3353.8	3393.5	3376.9	3330.6	3267.8	3228.1	3204.9	3208.2
20°	3241.3	3241.3	3274.4	3330.6	3363.7	3350.5	3294.2	3224.8	3161.9	3132.2	3122.2
22.5°	3274.4	3257.9	3261.2	3310.8	3357.1	3337.2	3218.2	3095.8	3006.5	2973.4	2970.1
25°	3363.7	3317.4	3287.6	3317.4	3426.5	3264.5	3026.3	2884.1	2801.4	2771.7	2775.0
27.5°	3472.8	3410.0	3347.2	3396.8	3482.8	3099.1	2781.6	2619.5	2569.9	2546.7	2556.7
30°	3582.0	3499.3	3416.6	3595.2	3443.1	2841.1	2467.4	2308.6	2265.6	2249.1	2262.3
32.5°	3783.7	3648.1	3548.9	3859.8	3320.7	2546.7	2126.7	1981.2	1941.5	1921.6	1915.0
35°	4121.1	3949.1	3849.9	4091.3	3148.7	2219.3	1815.8	1713.3	1670.3	1627.3	1620.7
37.5°	4607.3	4398.9	4309.6	4223.6	2907.3	1895.2	1577.7	1508.2	1445.4	1379.2	1375.9
40°	5189.4	4918.2	4852.0	4283.2	2573.2	1590.9	1412.3	1346.1	1266.8	1203.9	1207.2
42.5°	5860.8	5513.5	5371.3	4266.6	2159.8	1428.8	1293.2	1220.5	1151.0	1094.8	1091.5
45°	6578.5	6185.0	5857.5	4150.9	1749.6	1316.4	1220.5	1134.5	1065.0	1002.2	995.5
47.5°	7372.3	6932.4	6307.3	3926.0	1445.4	1237.0	1177.5	1055.1	992.2	952.5	952.5
50°	8172.7	7646.9	6720.8	3585.3	1266.8	1177.5	1114.6	1012.1	962.5	929.4	929.4
52.5°	8857.4	8391.0	7061.4	3178.5	1154.3	1127.8	1071.6	992.2	939.3	909.6	906.2
55°	9522.2	9082.3	7365.7	2775.0	1061.7	1061.7	1061.7	975.7	916.2	889.7	886.4
57.5°	10183.7	9809.9	7683.2	2510.4	979.0	1005.5	1041.9	955.9	896.3	873.2	869.9
60°	10931.2	10683.1	8050.4	2325.1	906.2	945.9	1015.4	932.7	863.2	843.4	840.1
62.5°	11725.0	11725.0	8384.4	2063.9	840.1	896.3	975.7	902.9	833.5	816.9	813.6
65°	12346.8	12614.7	8599.4	1673.6	773.9	846.7	929.4	863.2	793.8	790.5	783.9
67.5°	12419.5	12839.6	8463.8	1263.5	714.4	793.8	883.1	820.3	754.1	754.1	744.2
70°	11896.9	12323.6	8040.4	945.9	671.4	740.9	823.6	767.3	704.5	711.1	694.6
72.5°	11023.8	11129.6	6988.7	747.5	621.8	684.6	750.8	707.8	651.6	651.6	628.4
75°	9872.8	9284.0	5077.0	625.1	562.3	618.5	678.0	641.6	592.0	575.5	562.3
77.5°	7858.5	6727.4	2950.3	539.1	512.7	555.7	595.3	568.9	525.9	489.5	489.5
80°	4789.2	3942.5	1303.1	466.4	453.1	486.2	512.7	482.9	446.5	410.1	400.2
82.5°	1822.4	1521.4	631.7	400.2	396.9	416.7	436.6	406.8	380.4	363.8	314.2
85°	499.4	459.7	433.3	334.1	327.4	324.1	347.3	334.1	297.7	244.8	218.3
87.5°	188.5	215.0	234.8	205.1	218.3	201.8	231.5	211.7	188.5	122.4	109.1
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)