

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: P400475

Luminaire Tested: **ARCH-L-PA3-280-830-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-280-830-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 1180mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28463 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

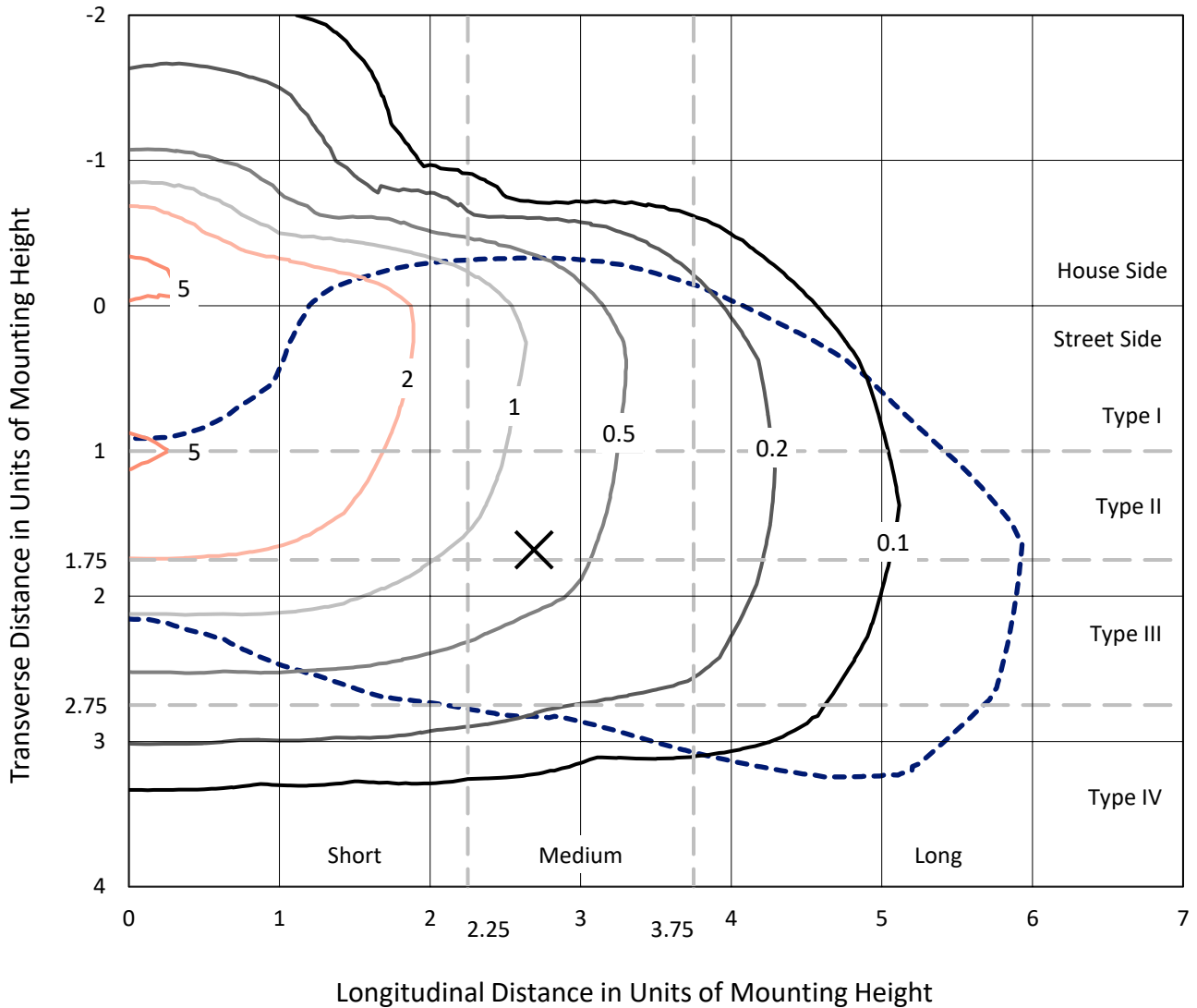
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

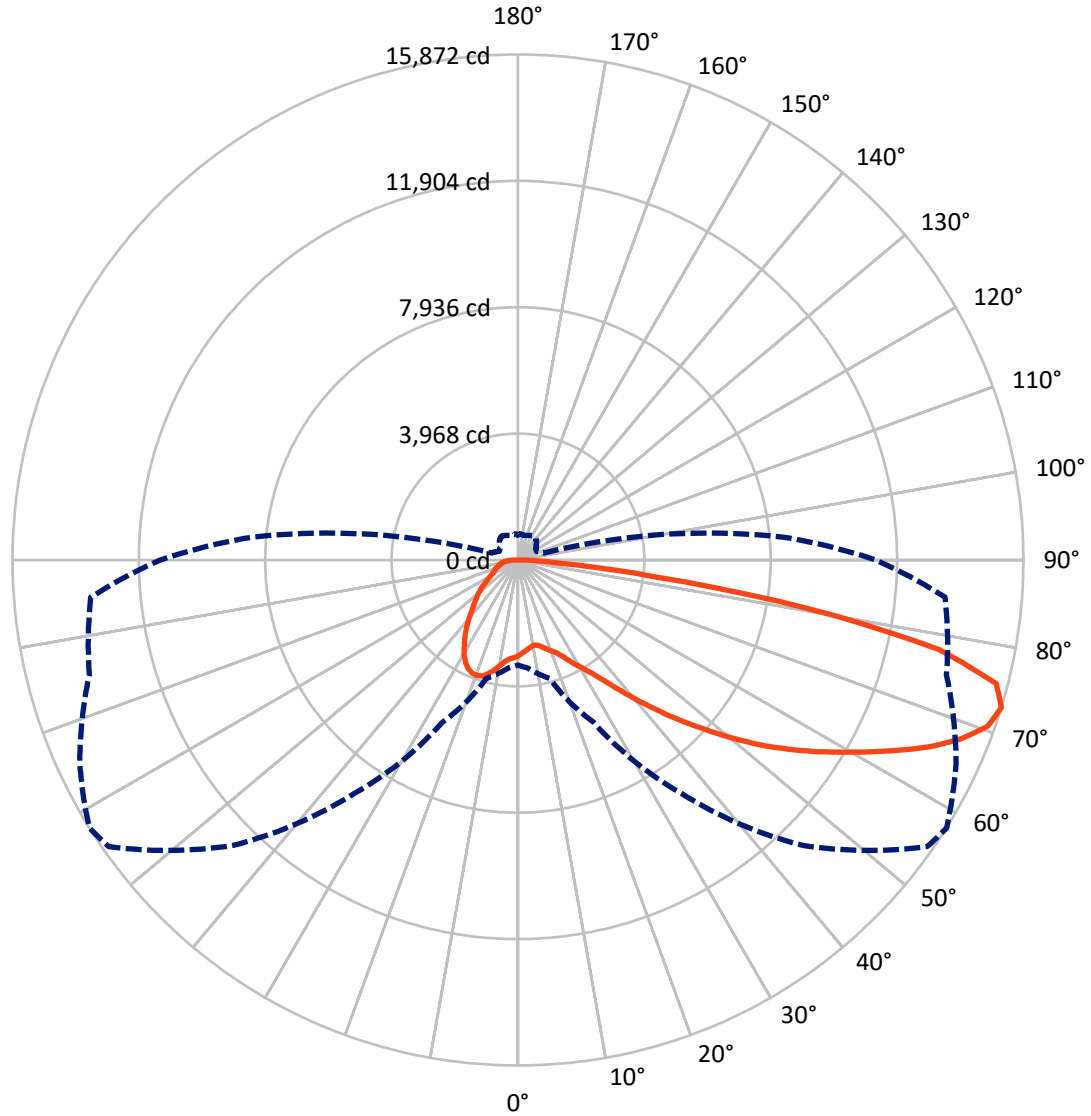
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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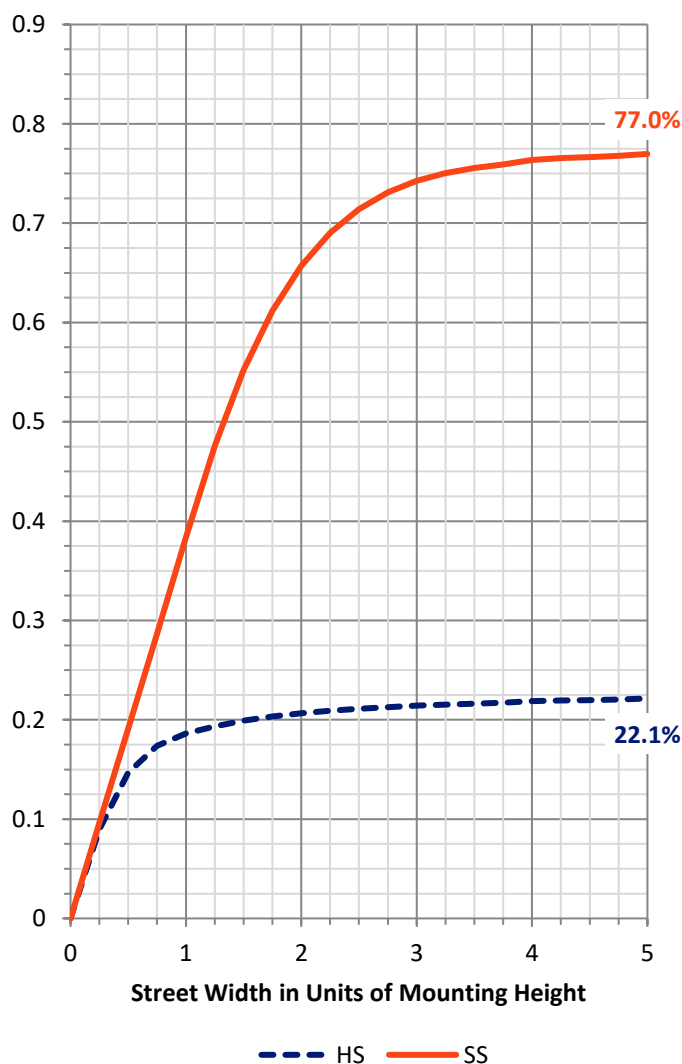
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6455.1	0.0	6455.1
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	22007.9	0.0	22007.9
	% Fixture	77.3	0.0	77.3
Total	Lumens	28463.0	0.0	28463.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.2	1.0
10°-20°	918.5	3.2
20°-30°	1645.3	5.8
30°-40°	2474.9	8.7
40°-50°	4007.8	14.1
50°-60°	6033.0	21.2
60°-70°	7100.2	24.9
70°-80°	5034.7	17.7
80°-90°	959.4	3.4
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°	28463.0	100.0
0°-180°	28463.0	100.0



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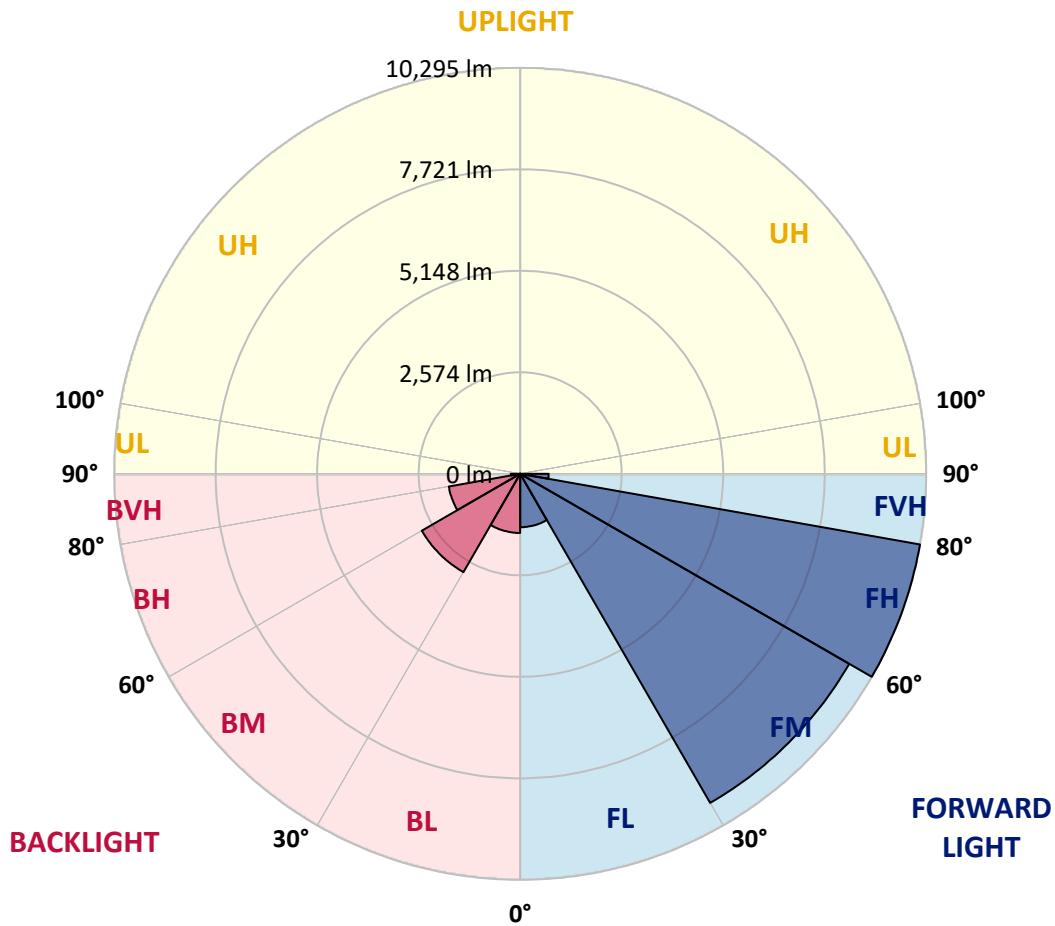
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1353.5	4.8			
FM (30°-60°)	9635.6	33.9			
FH (60°-80°)	10295.2	36.2			G4/12000
FVH (80°-90°)	723.6	2.5			G4/750
BL (0°-30°)	1499.4	5.3	B3/2500		
BM (30°-60°)	2880.2	10.1	B3/5000		
BH (60°-80°)	1839.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	235.7	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3002.2	3002.2	3002.2	3002.2	3002.2	3002.2	3002.2	3002.2	3002.2	3002.2	3002.2
2.5°	2889.5	2874.5	2878.2	2878.2	2893.3	2900.8	2904.5	2915.8	2923.3	2942.1	2968.4
5°	2754.2	2743.0	2746.7	2750.5	2776.8	2803.1	2825.6	2840.7	2863.2	2893.3	2930.8
7.5°	2656.6	2649.0	2652.8	2660.3	2682.9	2712.9	2750.5	2773.0	2806.9	2863.2	2927.1
10°	2585.2	2585.2	2588.9	2603.9	2626.5	2664.1	2694.1	2720.4	2788.1	2889.5	2987.2
12.5°	2528.8	2528.8	2540.1	2570.1	2607.7	2645.3	2716.7	2746.7	2836.9	2975.9	3092.4
15°	2525.0	2528.8	2532.6	2558.9	2600.2	2682.9	2788.1	2833.2	2942.1	3107.5	3242.7
17.5°	2585.2	2588.9	2573.9	2581.4	2630.2	2746.7	2885.8	2938.4	3077.4	3257.8	3396.8
20°	2769.3	2769.3	2724.2	2682.9	2716.7	2844.4	3002.2	3054.8	3208.9	3408.1	3547.1
22.5°	3145.0	3163.8	3058.6	2968.4	2915.8	2987.2	3130.0	3186.4	3359.2	3573.4	3712.4
25°	3599.7	3618.5	3475.7	3347.9	3250.2	3239.0	3332.9	3393.0	3535.8	3757.5	3874.0
27.5°	4039.3	4005.5	3874.0	3753.7	3629.7	3528.3	3599.7	3652.3	3817.6	3986.7	4058.1
30°	4385.0	4358.7	4230.9	4144.5	4028.0	3896.5	3855.2	3911.6	4046.8	4204.6	4242.2
32.5°	4768.3	4749.5	4621.7	4509.0	4411.3	4287.3	4197.1	4223.4	4298.6	4411.3	4433.8
35°	5256.7	5298.1	5162.8	4933.6	4824.6	4704.4	4640.5	4648.0	4704.4	4775.8	4738.2
37.5°	5771.5	5820.4	5827.9	5467.2	5320.6	5211.7	5144.0	5170.3	5238.0	5286.8	5170.3
40°	6725.9	6677.1	6481.7	6214.9	5989.5	5884.2	5790.3	5786.5	5835.4	5921.8	5711.4
42.5°	7992.2	7947.1	7552.6	7206.9	6849.9	6729.7	6545.6	6466.7	6489.2	6598.2	6305.1
45°	9205.9	9187.1	8871.5	8469.4	8041.0	7808.1	7387.2	7195.6	7176.8	7263.2	6913.8
47.5°	10284.3	10201.6	9972.4	9660.5	9615.4	9006.7	8232.7	7973.4	7883.2	7932.1	7541.3
50°	11437.8	11156.0	10840.4	10648.8	10975.7	10408.3	9085.6	8815.1	8593.4	8627.2	8221.4
52.5°	12050.3	11576.9	11370.2	11426.6	11866.2	11648.2	10013.7	9683.1	9326.1	9375.0	8897.8
55°	11524.2	11520.5	11610.7	11960.1	12572.6	12320.8	10896.7	10524.8	10134.0	10145.2	9675.6
57.5°	10802.8	10949.4	11415.3	12185.6	13448.1	13027.2	11764.7	11370.2	11013.2	10956.9	10558.6
60°	10145.2	10306.8	10983.2	12148.0	13752.4	13673.5	12591.4	12245.7	11956.4	11791.0	11486.7
62.5°	9145.8	9266.0	10224.2	11907.5	13496.9	14139.5	13429.3	13192.6	12974.6	12632.7	12486.2
65°	7969.7	8011.0	9021.8	11114.7	13177.5	14319.8	14263.5	14158.3	13947.8	13444.3	13474.4
67.5°	6695.9	6778.5	7665.3	9848.4	12478.7	14237.2	14909.8	14996.2	14748.2	13992.9	14105.6
70°	5339.4	5440.9	6113.5	8097.4	11291.3	13880.2	15507.2	15646.2	15169.0	14173.3	14222.1
72.5°	3302.8	3400.5	3851.4	5625.0	8950.4	12681.6	15691.3	15871.7	15180.3	13932.8	13463.1
75°	1142.3	1153.6	1506.8	2697.9	5313.1	9574.1	15090.1	15514.7	14703.1	13057.3	11715.9
77.5°	522.3	541.1	668.8	1112.2	2356.0	5166.6	12459.9	13523.2	13252.7	11689.6	9018.0
80°	360.7	368.2	462.2	665.1	1360.2	1818.6	7864.4	9251.0	9724.4	9051.8	5779.0
82.5°	270.5	278.1	357.0	450.9	980.7	883.0	2994.7	4298.6	5343.2	5245.5	2416.1
85°	259.3	255.5	278.1	300.6	653.8	526.0	969.4	1330.2	2085.4	1784.8	608.7
87.5°	112.7	124.0	285.6	169.1	341.9	244.2	420.8	492.2	635.0	552.4	217.9
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°	3002.2	3002.2	3002.2	3002.2	3002.2	3002.2	3002.2	3002.2	3002.2	3002.2	3002.2
2.5°	2979.7	2987.2	3009.8	3043.6	3062.4	3099.9	3126.2	3141.3	3152.5	3156.3	3156.3
5°	2953.4	2968.4	3017.3	3073.6	3126.2	3205.1	3276.5	3317.9	3347.9	3359.2	3363.0
7.5°	2960.9	2998.5	3069.9	3152.5	3220.2	3321.6	3408.1	3490.7	3558.4	3584.7	3584.7
10°	3032.3	3084.9	3182.6	3291.6	3378.0	3483.2	3573.4	3644.8	3723.7	3768.8	3776.3
12.5°	3141.3	3205.1	3332.9	3453.1	3550.8	3633.5	3716.2	3768.8	3806.3	3840.2	3847.7
15°	3295.3	3374.2	3502.0	3626.0	3712.4	3765.0	3787.6	3787.6	3783.8	3787.6	3795.1
17.5°	3449.4	3524.5	3652.3	3776.3	3817.6	3787.6	3761.3	3753.7	3750.0	3742.5	3746.2
20°	3599.7	3671.1	3780.0	3874.0	3840.2	3735.0	3701.1	3697.4	3686.1	3678.6	3671.1
22.5°	3750.0	3802.6	3892.8	3926.6	3791.3	3641.0	3599.7	3577.1	3562.1	3543.3	3524.5
25°	3922.8	3937.9	4005.5	3952.9	3671.1	3468.2	3408.1	3374.2	3359.2	3340.4	3325.4
27.5°	4084.4	4084.4	4095.7	3911.6	3494.5	3239.0	3148.8	3088.7	3084.9	3081.1	3077.4
30°	4230.9	4212.2	4174.6	3787.6	3265.3	2957.2	2821.9	2761.8	2784.3	2803.1	2806.9
32.5°	4403.8	4366.2	4261.0	3618.5	2991.0	2641.5	2476.2	2449.9	2476.2	2498.7	2483.7
35°	4674.3	4606.7	4351.2	3423.1	2727.9	2352.2	2194.4	2156.8	2149.3	2145.5	2115.5
37.5°	5061.4	4944.9	4422.6	3212.7	2468.7	2096.7	1980.2	1901.3	1829.9	1754.8	1743.5
40°	5534.8	5335.6	4471.4	2972.2	2194.4	1882.5	1758.5	1657.1	1536.8	1405.3	1390.3
42.5°	6053.3	5756.5	4494.0	2705.4	1953.9	1705.9	1551.8	1424.1	1288.8	1187.4	1168.6
45°	6613.2	6211.1	4475.2	2449.9	1758.5	1555.6	1382.8	1243.7	1134.8	1063.4	1048.3
47.5°	7158.0	6733.4	4422.6	2247.0	1608.2	1427.8	1251.2	1123.5	1040.8	961.9	943.1
50°	7856.9	7233.2	4358.7	2089.2	1442.9	1300.1	1168.6	1033.3	939.4	901.8	894.3
52.5°	8631.0	7732.9	4283.5	1890.0	1281.3	1198.6	1116.0	995.7	965.7	894.3	883.0
55°	9468.9	8326.6	4268.5	1638.3	1138.5	1127.2	1063.4	1029.6	1037.1	894.3	875.5
57.5°	10351.9	8961.6	4302.3	1386.5	1022.0	1063.4	1085.9	1059.6	1048.3	913.1	875.5
60°	11272.5	9574.1	4200.9	1153.6	931.9	1010.8	1112.2	1044.6	961.9	905.6	879.3
62.5°	12166.8	10088.9	3761.3	988.2	864.2	995.7	1097.2	988.2	894.3	894.3	883.0
65°	12816.8	10318.1	2942.1	868.0	819.1	976.9	1070.9	950.6	875.5	901.8	886.8
67.5°	12892.0	10081.4	1976.4	774.0	781.6	943.1	1010.8	916.8	856.7	924.3	901.8
70°	12429.8	9465.1	1209.9	702.7	732.7	883.0	958.2	883.0	830.4	905.6	871.7
72.5°	11231.2	8315.3	853.0	642.5	680.1	826.6	909.3	853.0	792.8	819.1	785.3
75°	9213.4	6444.1	676.3	586.2	627.5	774.0	868.0	807.9	747.7	736.5	713.9
77.5°	6526.8	4129.5	544.8	541.1	571.1	710.2	811.6	755.3	695.1	672.6	657.6
80°	3753.7	2025.3	469.7	488.5	518.5	646.3	744.0	695.1	638.8	605.0	582.4
82.5°	1435.4	706.4	413.3	424.6	458.4	578.7	676.3	635.0	578.7	608.7	511.0
85°	465.9	387.0	338.2	349.4	383.3	481.0	597.4	563.6	499.7	443.4	409.6
87.5°	206.7	210.4	180.4	199.1	240.5	319.4	435.9	413.3	364.5	304.4	293.1
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)