

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: P399717

Luminaire Tested: **ARCH-L-PA3-180-740-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399717
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-PA3-180-740-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 775mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26663 lumens
Efficiency: N/A
Efficacy: 147.3 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

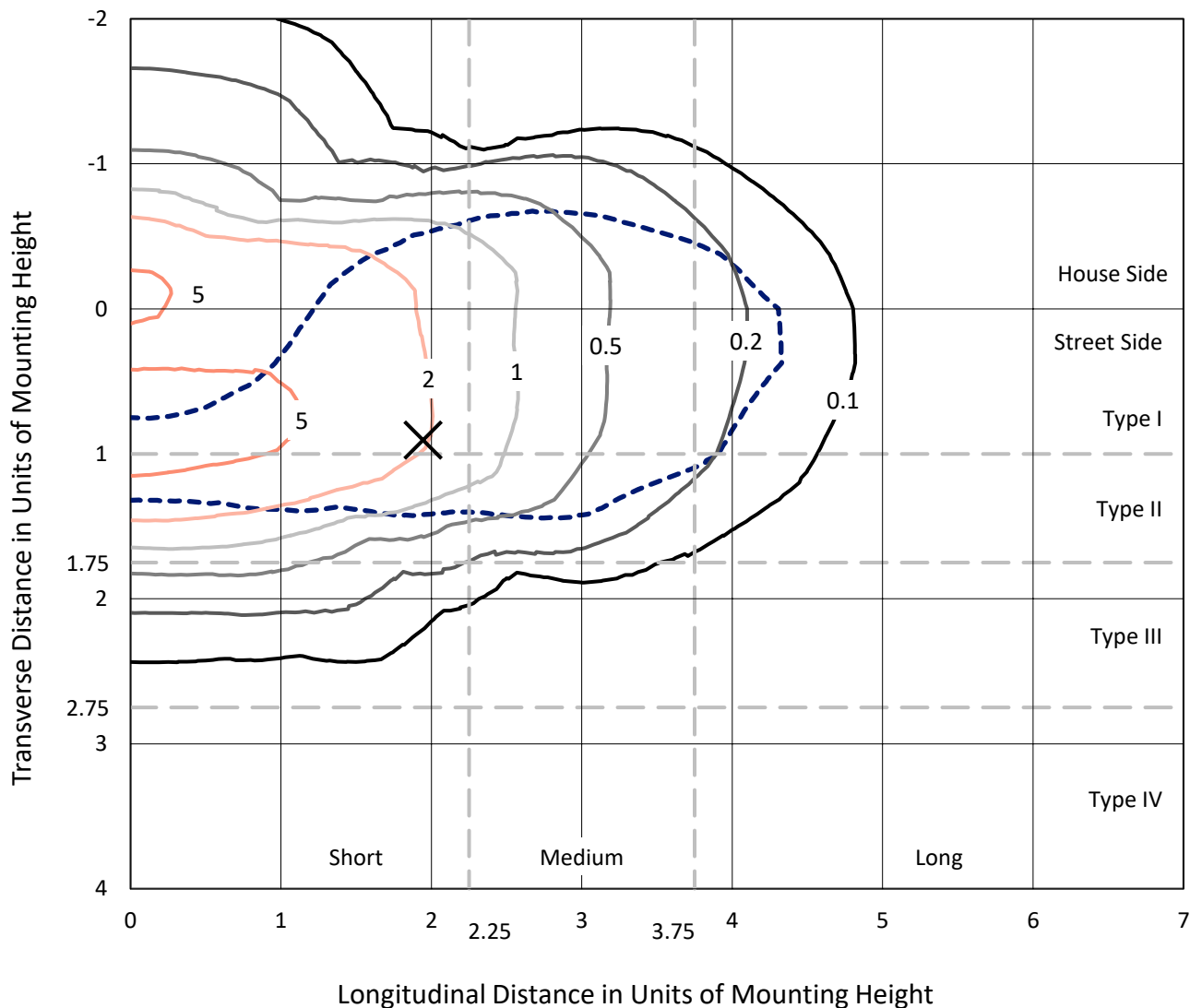
Input Watts (W): 181
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399717
 CATALOG NUMBER: ARCH-L-PA3-180-740-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

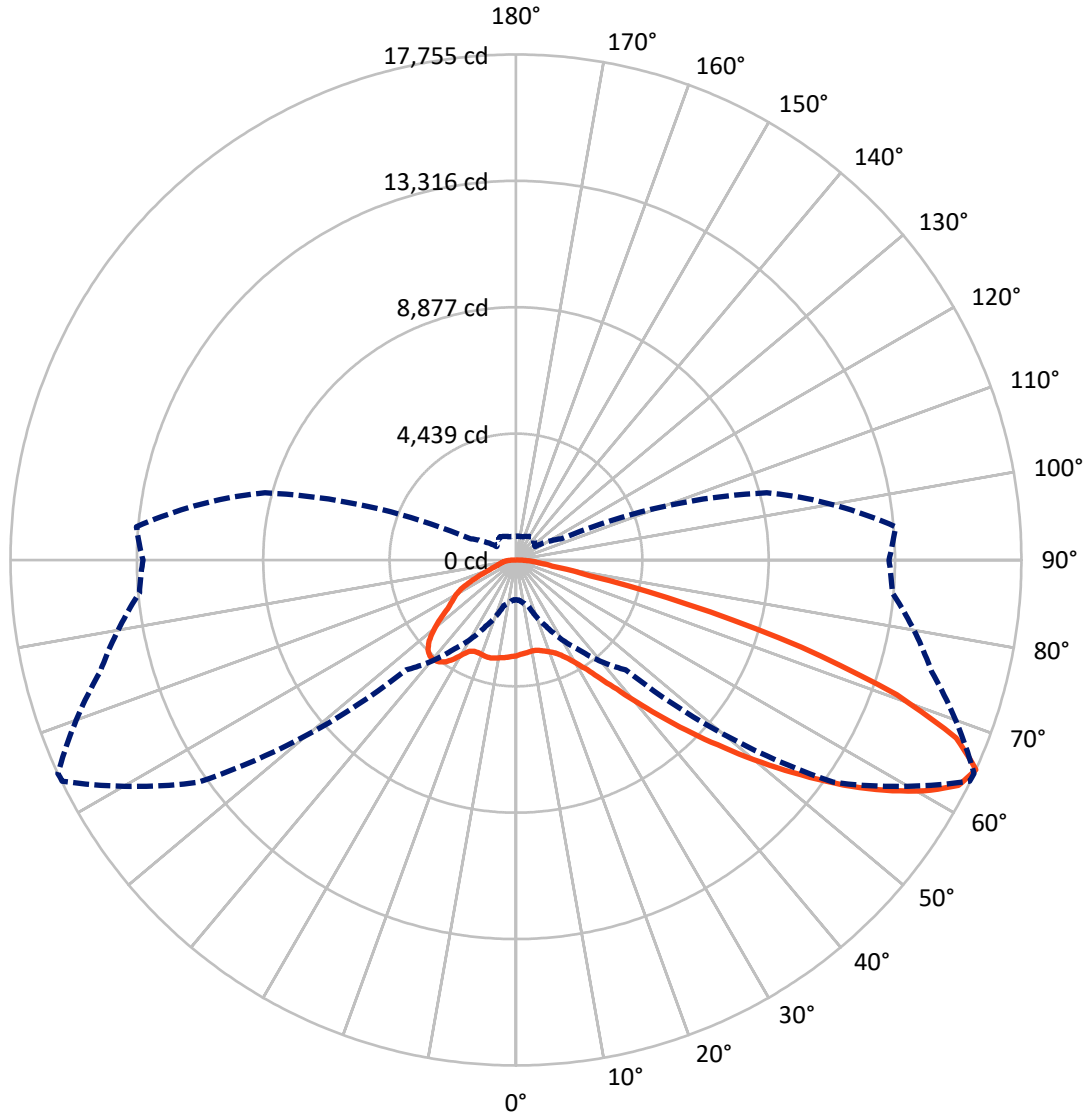
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

REPORT NUMBER: P399717
CATALOG NUMBER: ARCH-L-PA3-180-740-U-T2U

Luminous Intensity Polar Plot



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

REPORT NUMBER: P399717
 CATALOG NUMBER: ARCH-L-PA3-180-740-U-T2U

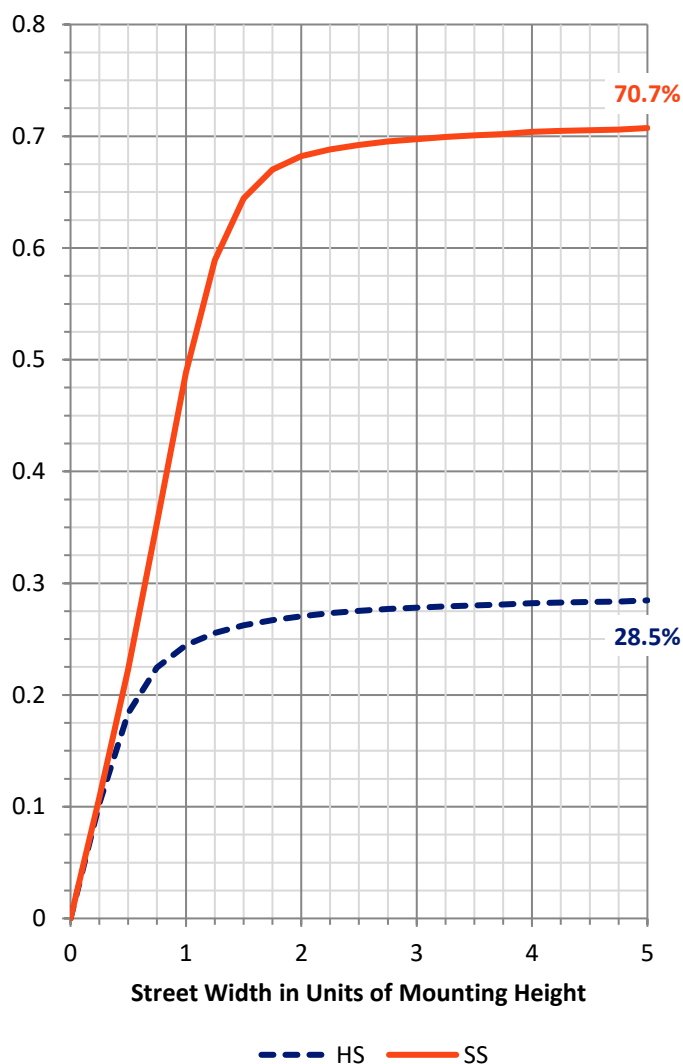
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7708.7	0.0	7708.7
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	18954.3	0.0	18954.3
	% Fixture	71.1	0.0	71.1
Total	Lumens	26663.0	0.0	26663.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.0	1.2
10°-20°	958.3	3.6
20°-30°	1702.3	6.4
30°-40°	2879.8	10.8
40°-50°	5013.2	18.8
50°-60°	6478.6	24.3
60°-70°	5669.1	21.3
70°-80°	3083.6	11.6
80°-90°	557.2	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°	26663.0	100.0
0°-180°	26663.0	100.0

Coefficient of Utilization



REPORT NUMBER: P399717

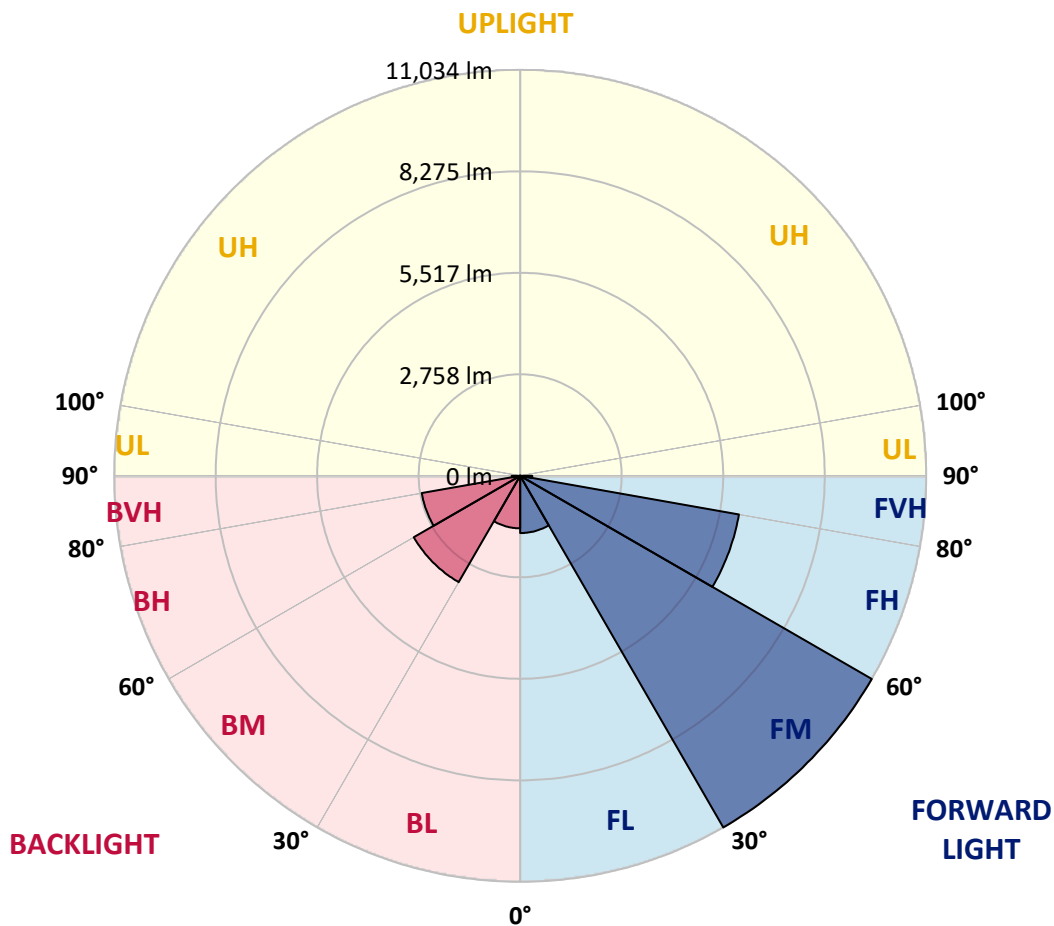
CATALOG NUMBER: ARCH-L-PA3-180-740-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1555.7	5.8			
FM (30°-60°)	11033.9	41.4			
FH (60°-80°)	6036.9	22.6			G3/7500
FVH (80°-90°)	327.9	1.2			G3/500
BL (0°-30°)	1425.8	5.3	B3/2500		
BM (30°-60°)	3337.7	12.5	B3/5000		
BH (60°-80°)	2715.9	10.2	B4/5000		G4/5000
BVH (80°-90°)	229.3	0.9			G3/500
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





REPORT NUMBER: P399717

CATALOG NUMBER: ARCH-L-PA3-180-740-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3369.1	3369.1	3369.1	3369.1	3369.1	3369.1	3369.1	3369.1	3369.1	3369.1	3369.1
2.5°	3309.5	3306.0	3298.9	3306.0	3309.5	3316.5	3313.0	3320.0	3316.5	3327.0	3344.6
5°	3225.2	3218.2	3214.7	3232.3	3242.8	3260.3	3267.4	3291.9	3288.4	3306.0	3334.0
7.5°	3130.5	3130.5	3127.0	3148.0	3162.1	3193.7	3218.2	3260.3	3263.8	3295.4	3327.0
10°	3056.8	3060.3	3056.8	3074.3	3095.4	3134.0	3176.1	3235.8	3239.3	3284.9	3316.5
12.5°	3028.7	3028.7	3028.7	3053.3	3081.3	3134.0	3183.1	3246.3	3253.3	3302.4	3330.5
15°	3067.3	3070.8	3063.8	3088.4	3120.0	3183.1	3228.7	3295.4	3302.4	3348.1	3365.6
17.5°	3204.2	3218.2	3200.7	3214.7	3207.7	3256.8	3298.9	3365.6	3369.1	3407.7	3414.8
20°	3474.4	3488.5	3460.4	3442.8	3379.7	3376.1	3393.7	3446.3	3446.3	3470.9	3453.4
22.5°	3892.0	3906.1	3856.9	3790.3	3639.4	3565.7	3527.1	3551.6	3548.1	3558.6	3513.0
25°	4446.5	4443.0	4383.4	4260.5	4018.4	3839.4	3744.6	3706.0	3706.0	3685.0	3628.8
27.5°	5134.4	5081.8	4976.5	4829.1	4492.2	4243.0	4039.4	3941.2	3923.6	3860.5	3755.2
30°	5867.9	5829.3	5678.4	5464.3	5074.7	4755.4	4418.5	4221.9	4211.4	4074.5	3916.6
32.5°	6731.2	6668.1	6499.6	6243.4	5776.6	5327.4	4906.3	4608.0	4590.4	4372.8	4155.3
35°	7840.2	7787.6	7461.2	7205.0	6604.9	6015.3	5516.9	5120.4	5106.3	4839.6	4562.4
37.5°	9170.3	9033.5	8717.6	8236.8	7605.1	6906.7	6275.0	5776.6	5759.1	5464.3	5113.4
40°	10356.6	10233.7	9953.0	9510.8	8833.4	8057.8	7201.5	6597.9	6580.3	6222.4	5780.2
42.5°	11233.9	11149.7	10967.2	10711.0	10226.7	9756.4	8384.2	7591.1	7559.5	7096.2	6545.2
45°	11742.8	11676.1	11570.8	11634.0	11627.0	11539.3	9795.0	8773.8	8672.0	8071.9	7398.0
47.5°	11620.0	11560.3	11602.4	12093.8	12771.1	13280.0	11437.5	9984.5	9847.7	9065.1	8307.0
50°	10732.1	10756.6	10977.7	11918.3	13437.9	14568.0	13258.9	11363.8	11181.3	10065.3	9170.3
52.5°	9114.2	9173.9	9710.8	11026.9	13364.2	15403.2	14904.9	12788.6	12546.5	11040.9	9956.5
55°	7240.1	7391.0	8085.9	9468.7	12402.6	15462.9	16147.2	14220.5	13953.8	11956.9	10640.8
57.5°	5355.5	5580.1	6383.8	7654.2	10560.1	14518.8	16768.4	15589.2	15266.4	12865.9	11363.8
60°	3397.2	3534.1	4460.6	5959.1	8082.4	12209.6	16687.7	16754.4	16473.6	13771.3	12118.3
62.5°	2168.9	2235.6	2702.3	4250.0	5650.3	9040.5	15806.8	17635.3	17445.8	14596.0	12834.3
65°	1393.3	1421.4	1660.0	2614.6	3846.4	5457.3	13613.4	17730.0	17754.6	15111.9	13276.5
67.5°	1133.6	1147.6	1235.3	1614.4	2719.9	3014.7	9482.7	16382.4	16680.7	14978.6	13125.6
70°	1031.8	1049.3	1140.6	1288.0	2105.7	2081.1	4590.4	13708.1	14196.0	14210.0	12455.2
72.5°	870.4	894.9	1017.8	1217.8	1628.4	1642.4	1944.3	9763.4	10482.9	12700.9	11448.0
75°	726.5	740.5	845.8	1073.9	1379.2	1312.6	1365.2	5176.5	6215.3	10184.6	10377.6
77.5°	589.6	603.6	680.8	856.3	1224.8	1021.3	1073.9	2144.3	2649.7	6913.7	8482.5
80°	421.1	435.2	522.9	666.8	926.5	919.5	796.7	1182.7	1284.5	3737.6	5509.9
82.5°	301.8	312.3	396.6	477.3	642.2	923.0	600.1	803.7	842.3	1656.5	2221.5
85°	203.6	203.6	273.7	315.9	414.1	582.6	484.3	544.0	568.5	786.1	600.1
87.5°	87.7	87.7	147.4	161.4	217.6	270.2	361.5	273.7	280.8	424.7	245.7
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: P399717

CATALOG NUMBER: ARCH-L-PA3-180-740-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3369.1	3369.1	3369.1	3369.1	3369.1	3369.1	3369.1	3369.1	3369.1	3369.1	3369.1
2.5°	3355.1	3358.6	3365.6	3386.7	3400.7	3421.8	3432.3	3446.3	3446.3	3439.3	3442.8
5°	3348.1	3358.6	3383.2	3421.8	3446.3	3484.9	3513.0	3534.1	3541.1	3534.1	3537.6
7.5°	3344.6	3362.1	3404.2	3460.4	3495.5	3544.6	3583.2	3607.8	3625.3	3618.3	3621.8
10°	3334.0	3362.1	3414.8	3484.9	3537.6	3586.7	3621.8	3632.3	3642.9	3635.8	3632.3
12.5°	3348.1	3379.7	3435.8	3520.0	3579.7	3618.3	3628.8	3611.3	3586.7	3572.7	3569.2
15°	3376.1	3407.7	3463.9	3551.6	3604.3	3618.3	3593.7	3537.6	3481.4	3449.8	3446.3
17.5°	3414.8	3435.8	3481.4	3558.6	3600.8	3583.2	3534.1	3467.4	3425.3	3400.7	3404.2
20°	3439.3	3439.3	3474.4	3534.1	3569.2	3555.1	3495.5	3421.8	3355.1	3323.5	3313.0
22.5°	3474.4	3456.9	3460.4	3513.0	3562.1	3541.1	3414.8	3284.9	3190.1	3155.0	3151.5
25°	3569.2	3520.0	3488.5	3520.0	3635.8	3463.9	3211.2	3060.3	2972.6	2941.0	2944.5
27.5°	3685.0	3618.3	3551.6	3604.3	3695.5	3288.4	2951.5	2779.5	2726.9	2702.3	2712.8
30°	3800.8	3713.1	3625.3	3814.8	3653.4	3014.7	2618.1	2449.6	2404.0	2386.5	2400.5
32.5°	4014.9	3871.0	3765.7	4095.6	3523.5	2702.3	2256.6	2102.2	2060.1	2039.0	2032.0
35°	4372.8	4190.4	4085.1	4341.3	3341.1	2354.9	1926.7	1817.9	1772.3	1726.7	1719.7
37.5°	4888.7	4667.6	4572.9	4481.6	3084.9	2010.9	1674.0	1600.3	1533.7	1463.5	1460.0
40°	5506.4	5218.6	5148.4	4544.8	2730.4	1688.1	1498.6	1428.4	1344.1	1277.5	1281.0
42.5°	6218.8	5850.3	5699.4	4527.3	2291.7	1516.1	1372.2	1295.0	1221.3	1161.6	1158.1
45°	6980.4	6562.8	6215.3	4404.4	1856.5	1396.8	1295.0	1203.8	1130.1	1063.4	1056.4
47.5°	7822.7	7355.9	6692.6	4165.8	1533.7	1312.6	1249.4	1119.5	1052.9	1010.7	1010.7
50°	8672.0	8114.0	7131.3	3804.3	1344.1	1249.4	1182.7	1073.9	1021.3	986.2	986.2
52.5°	9398.5	8903.6	7492.8	3372.6	1224.8	1196.7	1137.1	1052.9	996.7	965.1	961.6
55°	10103.9	9637.1	7815.7	2944.5	1126.6	1126.6	1126.6	1035.3	972.1	944.1	940.5
57.5°	10805.8	10409.2	8152.6	2663.7	1038.8	1066.9	1105.5	1014.2	951.1	926.5	923.0
60°	11598.9	11335.7	8542.1	2467.2	961.6	1003.7	1077.4	989.7	916.0	894.9	891.4
62.5°	12441.2	12441.2	8896.6	2189.9	891.4	951.1	1035.3	958.1	884.4	866.8	863.3
65°	13101.0	13385.3	9124.7	1775.8	821.2	898.4	986.2	916.0	842.3	838.8	831.8
67.5°	13178.2	13623.9	8980.8	1340.6	758.1	842.3	937.0	870.4	800.2	800.2	789.6
70°	12623.7	13076.4	8531.6	1003.7	712.4	786.1	873.9	814.2	747.5	754.5	737.0
72.5°	11697.2	11809.5	7415.6	793.1	659.8	726.5	796.7	751.0	691.4	691.4	666.8
75°	10475.9	9851.2	5387.1	663.3	596.6	656.3	719.4	680.8	628.2	610.7	596.6
77.5°	8338.6	7138.3	3130.5	572.0	544.0	589.6	631.7	603.6	558.0	519.4	519.4
80°	5081.8	4183.3	1382.7	494.8	480.8	515.9	544.0	512.4	473.8	435.2	424.7
82.5°	1933.7	1614.4	670.3	424.7	421.1	442.2	463.3	431.7	403.6	386.0	333.4
85°	529.9	487.8	459.7	354.5	347.4	343.9	368.5	354.5	315.9	259.7	231.6
87.5°	200.0	228.1	249.2	217.6	231.6	214.1	245.7	224.6	200.0	129.9	115.8
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)