

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: P399856

Luminaire Tested: **ARCH-L-PA3-200-730-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-200-730-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 860mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26316 lumens
Efficiency: N/A
Efficacy: 130.9 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

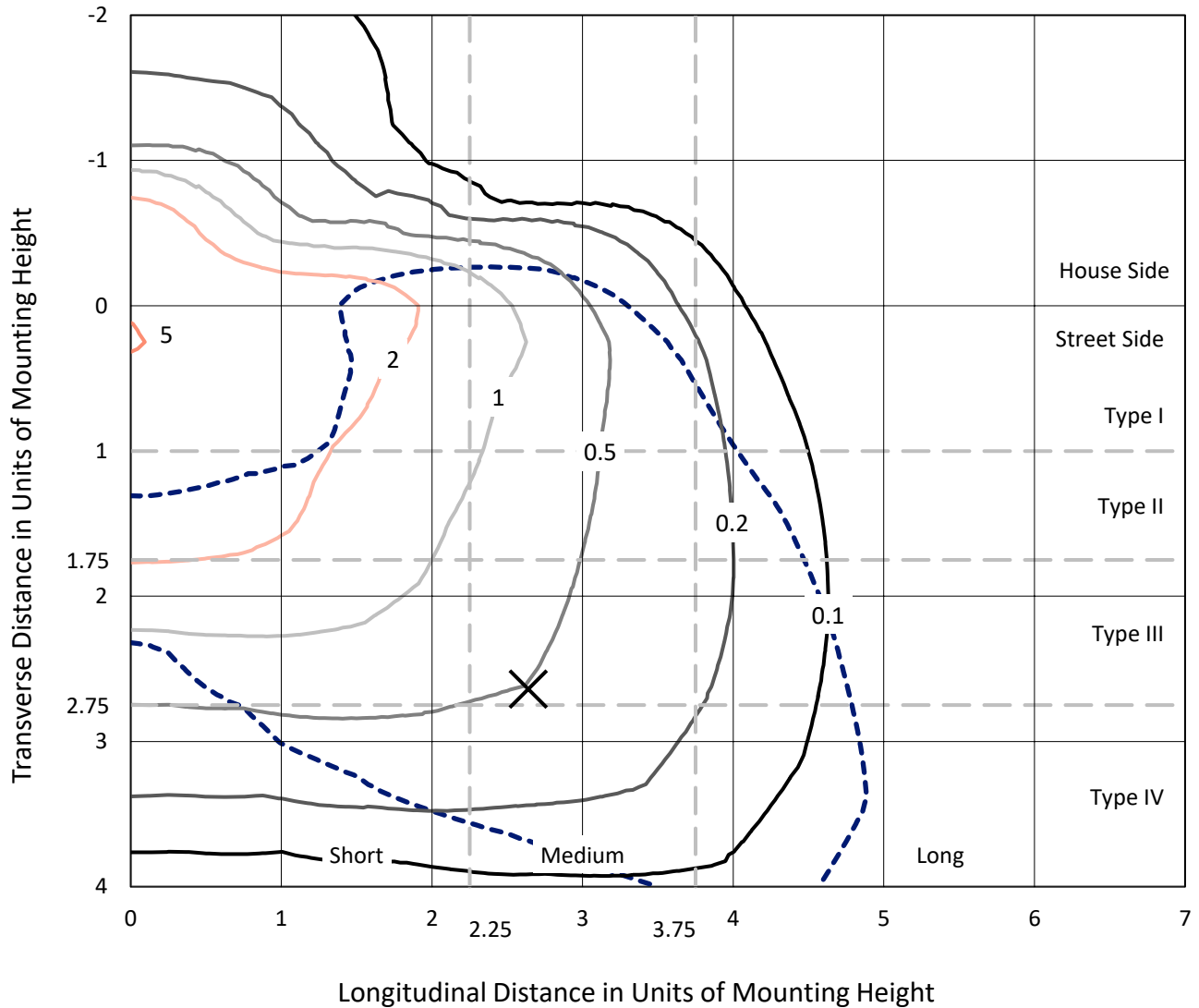
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399856
 CATALOG NUMBER: ARCH-L-PA3-200-730-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

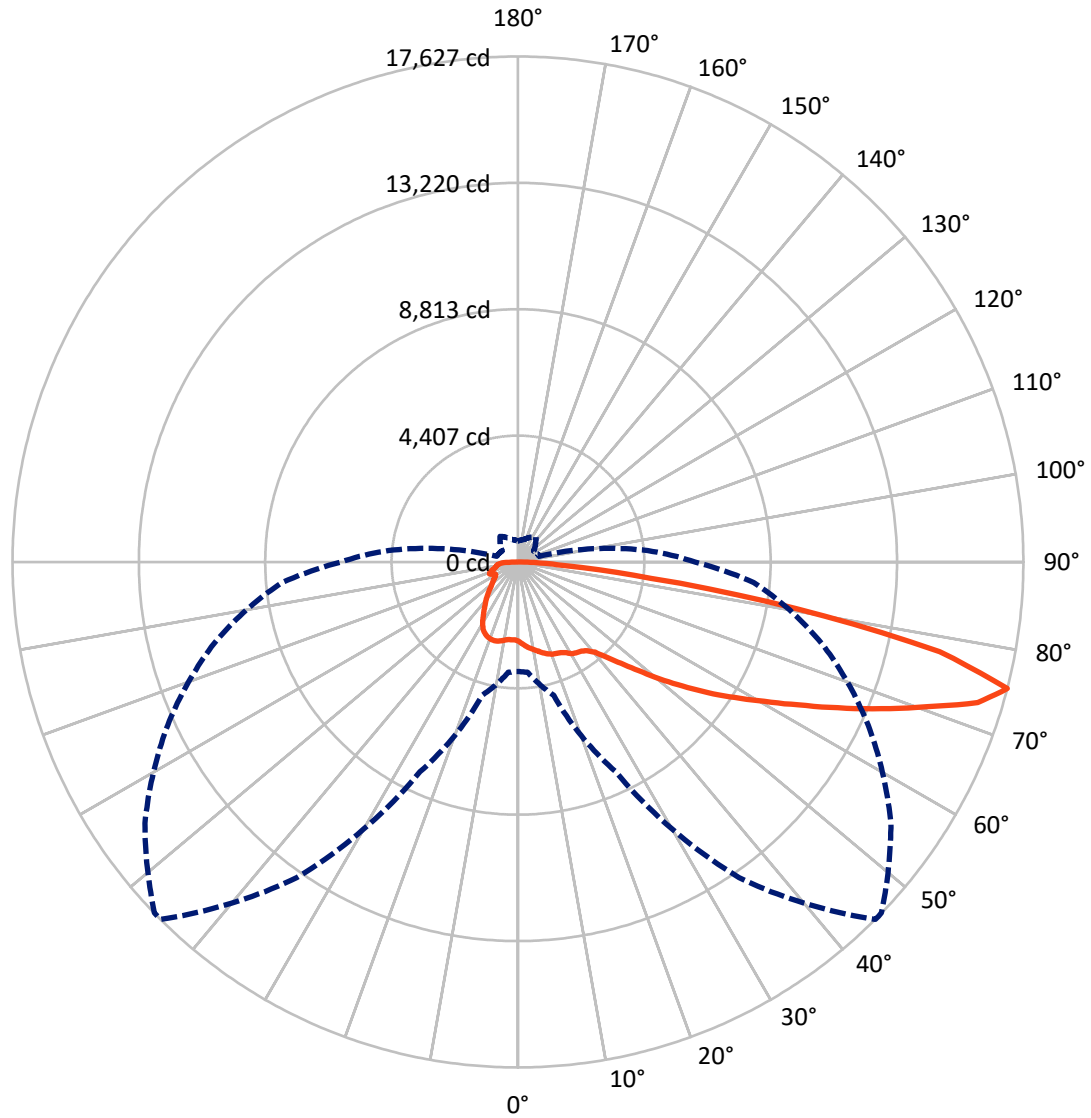
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Medium - N/A

REPORT NUMBER: P399856
CATALOG NUMBER: ARCH-L-PA3-200-730-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P399856
 CATALOG NUMBER: ARCH-L-PA3-200-730-U-T4W

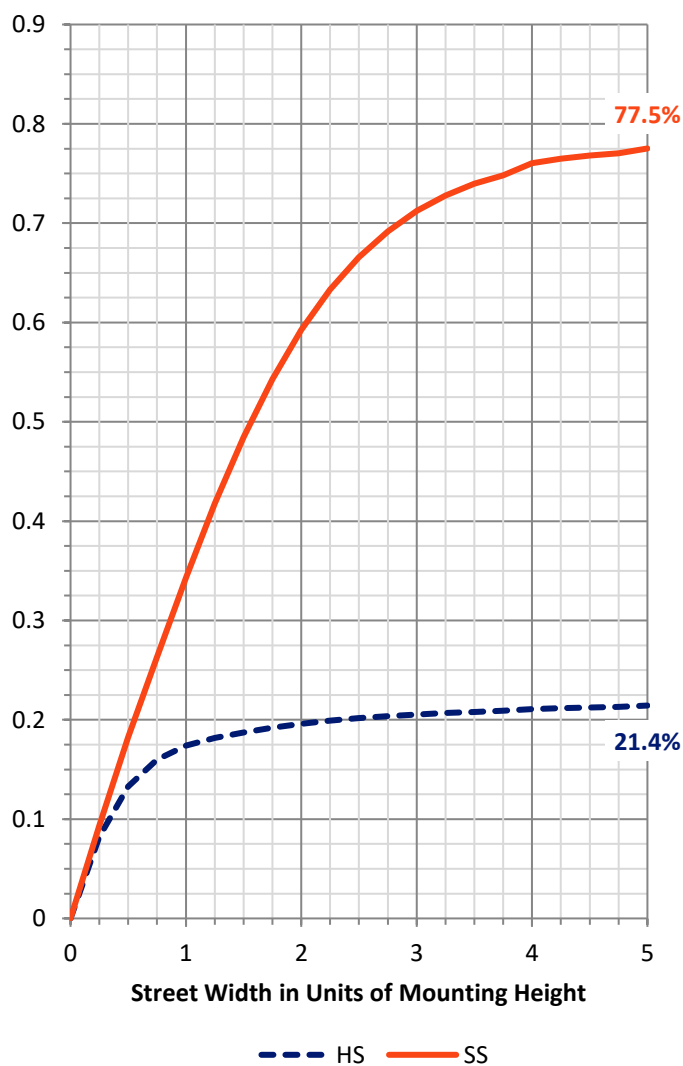
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5815.7	0.0	5815.7
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	20500.3	0.0	20500.3
	% Fixture	77.9	0.0	77.9
Total	Lumens	26316.0	0.0	26316.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.4	1.0
10°-20°	869.8	3.3
20°-30°	1482.9	5.6
30°-40°	2077.8	7.9
40°-50°	3052.5	11.6
50°-60°	4858.2	18.5
60°-70°	6910.7	26.3
70°-80°	5786.4	22.0
80°-90°	1004.2	3.8
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°	26316.0	100.0
0°-180°	26316.0	100.0

Coefficient of Utilization

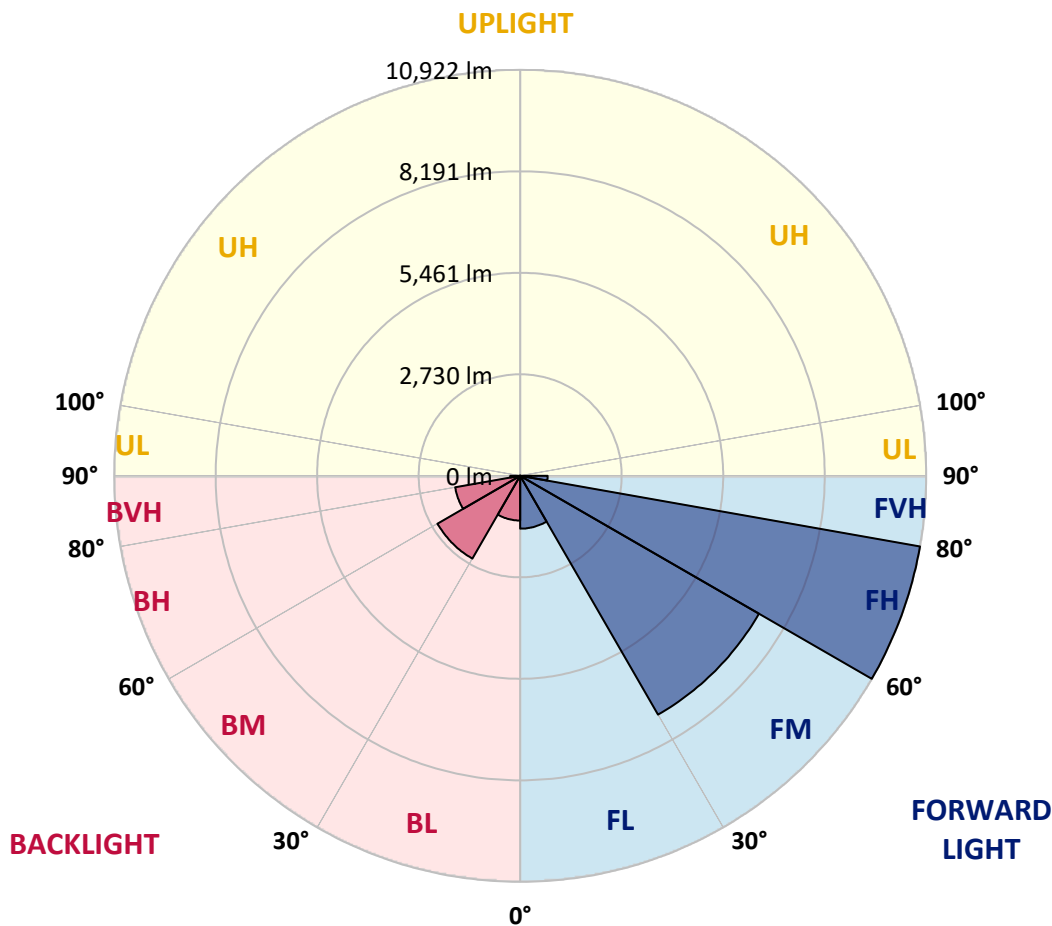


REPORT NUMBER: P399856
 CATALOG NUMBER: ARCH-L-PA3-200-730-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1422.5	5.4			
FM (30°-60°)	7417.7	28.2			
FH (60°-80°)	10921.8	41.5			G4/12000
FVH (80°-90°)	738.3	2.8			G4/750
BL (0°-30°)	1203.6	4.6	B3/2500		
BM (30°-60°)	2570.8	9.8	B3/5000		
BH (60°-80°)	1775.3	6.7	B3/2500		G3/2500
BVH (80°-90°)	265.9	1.0			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





REPORT NUMBER: P399856

CATALOG NUMBER: ARCH-L-PA3-200-730-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2763.8	2763.8	2763.8	2763.8	2763.8	2763.8	2763.8	2763.8	2763.8	2763.8	2763.8
2.5°	2922.0	2907.9	2900.9	2900.9	2872.8	2855.2	2851.7	2827.0	2806.0	2784.9	2767.3
5°	3090.8	3080.2	3059.1	3041.5	3002.9	2953.6	2946.6	2893.9	2841.1	2791.9	2749.7
7.5°	3245.5	3224.4	3199.8	3164.6	3101.3	3034.5	3024.0	2950.1	2876.3	2802.4	2746.2
10°	3375.6	3354.5	3319.3	3270.1	3189.2	3108.3	3097.8	3020.4	2943.1	2855.2	2774.3
12.5°	3498.6	3481.1	3428.3	3361.5	3266.6	3192.7	3182.2	3115.4	3034.5	2936.1	2830.6
15°	3604.1	3586.6	3530.3	3452.9	3343.9	3287.7	3273.6	3210.3	3129.4	3024.0	2915.0
17.5°	3656.9	3656.9	3597.1	3512.7	3410.7	3368.5	3358.0	3280.6	3206.8	3104.8	2995.8
20°	3674.5	3681.5	3639.3	3537.3	3449.4	3431.8	3421.3	3358.0	3273.6	3175.2	3073.2
22.5°	3685.0	3699.1	3663.9	3547.9	3474.0	3463.5	3456.5	3414.3	3347.4	3252.5	3150.5
25°	3720.2	3720.2	3695.6	3565.5	3505.7	3502.2	3502.2	3477.6	3431.8	3351.0	3249.0
27.5°	3772.9	3769.4	3737.8	3604.1	3576.0	3586.6	3583.0	3579.5	3547.9	3467.0	3358.0
30°	3860.8	3860.8	3825.7	3681.5	3663.9	3709.6	3713.1	3720.2	3670.9	3544.4	3456.5
32.5°	3994.4	3980.4	3945.2	3758.8	3730.7	3772.9	3779.9	3776.4	3734.2	3614.7	3572.5
35°	4405.8	4374.2	4247.6	3931.1	3790.5	3815.1	3818.6	3836.2	3843.2	3748.3	3727.2
37.5°	5126.7	5084.5	4891.1	4339.0	3980.4	3920.6	3917.1	3962.8	4001.5	3917.1	3917.1
40°	5910.8	5875.6	5763.1	5042.3	4332.0	4135.1	4121.0	4163.2	4212.4	4152.7	4170.2
42.5°	6585.9	6614.0	6624.6	5787.7	4859.4	4535.9	4497.3	4437.5	4514.8	4462.1	4532.4
45°	7092.2	7078.2	7271.6	6550.7	5541.6	5038.8	4986.0	4824.3	4922.7	4919.2	5073.9
47.5°	7630.2	7605.6	7686.5	7268.0	6318.7	5654.1	5573.2	5334.1	5481.8	5583.8	5840.5
50°	8140.1	8147.1	8175.2	7834.2	7162.6	6403.1	6301.1	5981.1	6192.1	6406.6	6768.7
52.5°	8804.6	8755.4	8720.2	8495.2	8108.4	7183.7	7116.8	6751.2	7046.5	7299.7	7781.4
55°	9384.8	9353.2	9332.1	9321.5	8899.6	8045.1	7974.8	7595.1	8020.5	8199.8	8910.1
57.5°	10003.7	9986.1	10098.6	10277.9	10109.2	8920.7	8846.8	8481.1	8955.8	9082.4	10133.8
60°	10457.3	10467.8	10777.2	11234.4	11118.3	9870.1	9782.1	9458.7	9866.5	9979.1	11357.4
62.5°	10460.8	10566.3	11283.6	12102.9	12236.5	10963.6	10861.6	10510.0	10801.9	10801.9	12454.5
65°	9462.2	9581.7	11192.2	12317.3	13368.7	12264.6	12166.2	11614.1	11723.1	11575.4	13484.7
67.5°	8467.1	8607.7	10123.2	12334.9	14163.4	13657.0	13541.0	12718.2	12531.8	12159.1	14205.6
70°	7806.0	7904.5	9170.3	12106.4	14641.6	15112.8	15024.8	13766.0	13168.3	12647.9	14054.4
72.5°	6571.8	6536.7	7746.3	11019.9	14908.8	16765.4	16691.5	14905.3	13720.3	12415.8	11986.8
75°	3815.1	3857.3	4806.7	8073.3	13439.0	17626.9	17619.8	15879.3	13477.7	10967.1	8259.6
77.5°	1100.6	1132.2	1578.8	3547.9	8498.7	15035.4	15517.1	14522.0	11392.6	7816.6	4282.8
80°	481.7	506.3	685.7	1181.5	3660.4	9820.8	10242.8	9820.8	6870.7	3586.6	1680.8
82.5°	284.8	302.4	446.6	731.4	1754.6	4673.1	5242.7	4578.1	2964.2	1522.5	696.2
85°	161.7	168.8	256.7	464.1	1104.1	1635.0	1835.5	1719.4	1445.2	865.0	365.7
87.5°	73.8	77.4	126.6	218.0	618.9	552.0	573.1	759.5	836.9	527.4	182.8
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: P399856

CATALOG NUMBER: ARCH-L-PA3-200-730-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2763.8	2763.8	2763.8	2763.8	2763.8	2763.8	2763.8	2763.8	2763.8	2763.8	2763.8
2.5°	2760.2	2749.7	2728.6	2721.6	2711.0	2714.5	2718.0	2718.0	2721.6	2711.0	2711.0
5°	2732.1	2714.5	2693.4	2693.4	2693.4	2721.6	2746.2	2760.2	2767.3	2767.3	2760.2
7.5°	2721.6	2700.5	2675.9	2682.9	2689.9	2725.1	2770.8	2816.5	2830.6	2830.6	2823.5
10°	2742.7	2721.6	2704.0	2714.5	2732.1	2760.2	2795.4	2837.6	2872.8	2876.3	2872.8
12.5°	2791.9	2767.3	2749.7	2770.8	2791.9	2809.5	2827.0	2844.6	2890.3	2897.4	2897.4
15°	2872.8	2848.1	2827.0	2844.6	2851.7	2851.7	2851.7	2851.7	2897.4	2904.4	2904.4
17.5°	2953.6	2932.5	2911.4	2915.0	2893.9	2865.7	2855.2	2851.7	2876.3	2897.4	2900.9
20°	3031.0	3013.4	2992.3	2957.1	2904.4	2851.7	2834.1	2834.1	2848.1	2879.8	2879.8
22.5°	3115.4	3094.3	3059.1	2978.2	2890.3	2816.5	2798.9	2809.5	2827.0	2869.2	2865.7
25°	3210.3	3182.2	3122.4	2971.2	2844.6	2756.7	2760.2	2791.9	2823.5	2869.2	2869.2
27.5°	3315.8	3277.1	3157.6	2915.0	2742.7	2658.3	2689.9	2763.8	2809.5	2858.7	2865.7
30°	3431.8	3396.7	3185.7	2816.5	2577.4	2500.0	2577.4	2696.9	2767.3	2813.0	2823.5
32.5°	3572.5	3544.4	3210.3	2689.9	2362.9	2296.1	2408.6	2556.3	2668.8	2721.6	2732.1
35°	3748.3	3720.2	3242.0	2545.7	2162.5	2092.2	2194.1	2345.3	2493.0	2559.8	2580.9
37.5°	3976.9	3934.7	3270.1	2391.0	1993.7	1912.8	1962.1	2099.2	2232.8	2324.2	2348.8
40°	4268.7	4201.9	3294.7	2215.2	1846.0	1754.6	1772.2	1839.0	1916.3	1997.2	2028.9
42.5°	4680.1	4546.5	3298.2	2028.9	1694.8	1610.4	1603.4	1624.5	1624.5	1624.5	1635.0
45°	5253.2	5000.1	3305.3	1853.1	1540.1	1452.2	1431.1	1424.1	1371.3	1269.4	1262.3
47.5°	5977.6	5594.3	3336.9	1705.4	1378.4	1301.0	1272.9	1244.7	1146.3	1040.8	1019.7
50°	6905.9	6283.5	3400.2	1564.7	1241.2	1188.5	1153.3	1086.5	977.5	896.6	875.5
52.5°	7974.8	7102.8	3460.0	1417.0	1139.3	1104.1	1061.9	981.0	865.0	815.8	808.7
55°	9202.0	8017.0	3579.5	1286.9	1051.4	1026.7	988.1	910.7	822.8	787.6	784.1
57.5°	10457.3	9040.2	3748.3	1170.9	967.0	952.9	952.9	886.1	829.8	815.8	815.8
60°	11666.8	9919.3	3618.2	1061.9	889.6	896.6	963.4	945.9	903.7	921.3	931.8
62.5°	12605.7	10436.2	2936.1	974.0	833.3	896.6	1068.9	1068.9	1019.7	1012.7	1012.7
65°	13006.5	10429.1	2064.0	907.2	812.2	984.5	1192.0	1135.7	1005.6	956.4	945.9
67.5°	12904.6	9972.0	1424.1	861.5	805.2	1076.0	1248.3	1090.0	942.3	900.2	868.5
70°	12007.9	9005.1	1097.1	819.3	794.7	1037.3	1230.7	1037.3	893.1	854.4	826.3
72.5°	9687.2	7222.3	910.7	777.1	752.5	959.9	1170.9	988.1	854.4	812.2	784.1
75°	6178.0	4543.0	770.1	720.8	671.6	861.5	1090.0	938.8	812.2	756.0	734.9
77.5°	2971.2	1958.5	671.6	654.0	604.8	798.2	1009.2	875.5	756.0	710.3	696.2
80°	1202.6	896.6	583.7	587.2	555.6	759.5	952.9	815.8	699.7	650.5	625.9
82.5°	625.9	520.4	492.3	506.3	506.3	724.3	910.7	766.5	650.5	629.4	548.5
85°	337.6	323.5	379.8	407.9	439.5	654.0	847.4	713.8	594.2	509.9	492.3
87.5°	165.3	211.0	214.5	246.1	305.9	523.9	713.8	597.8	495.8	411.4	404.4
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)