

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: P400464

Luminaire Tested: **ARCH-L-PA3-280-827-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400464
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-PA3-280-827-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 1180mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26250 lumens
Efficiency: N/A
Efficacy: 94.1 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

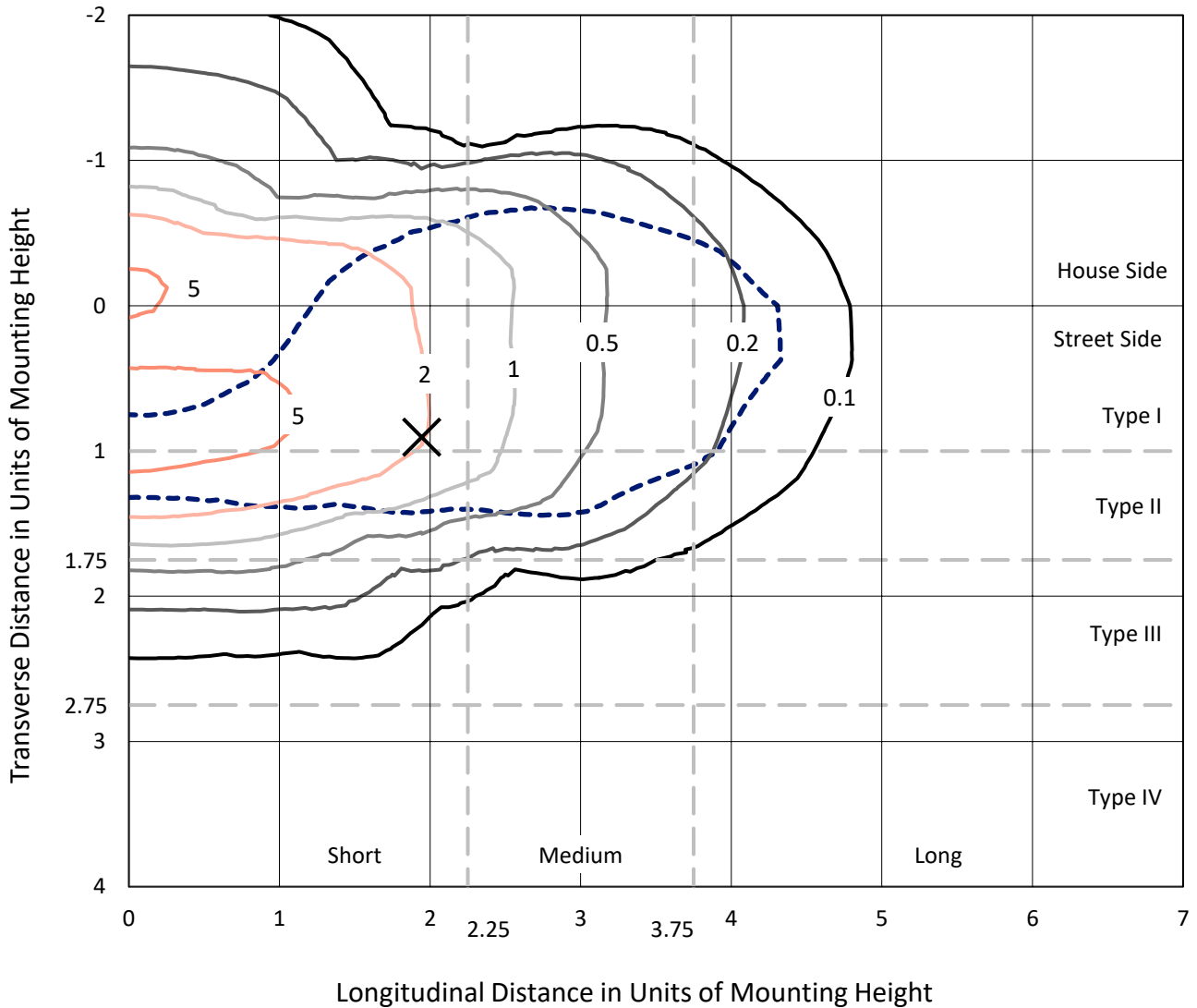
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

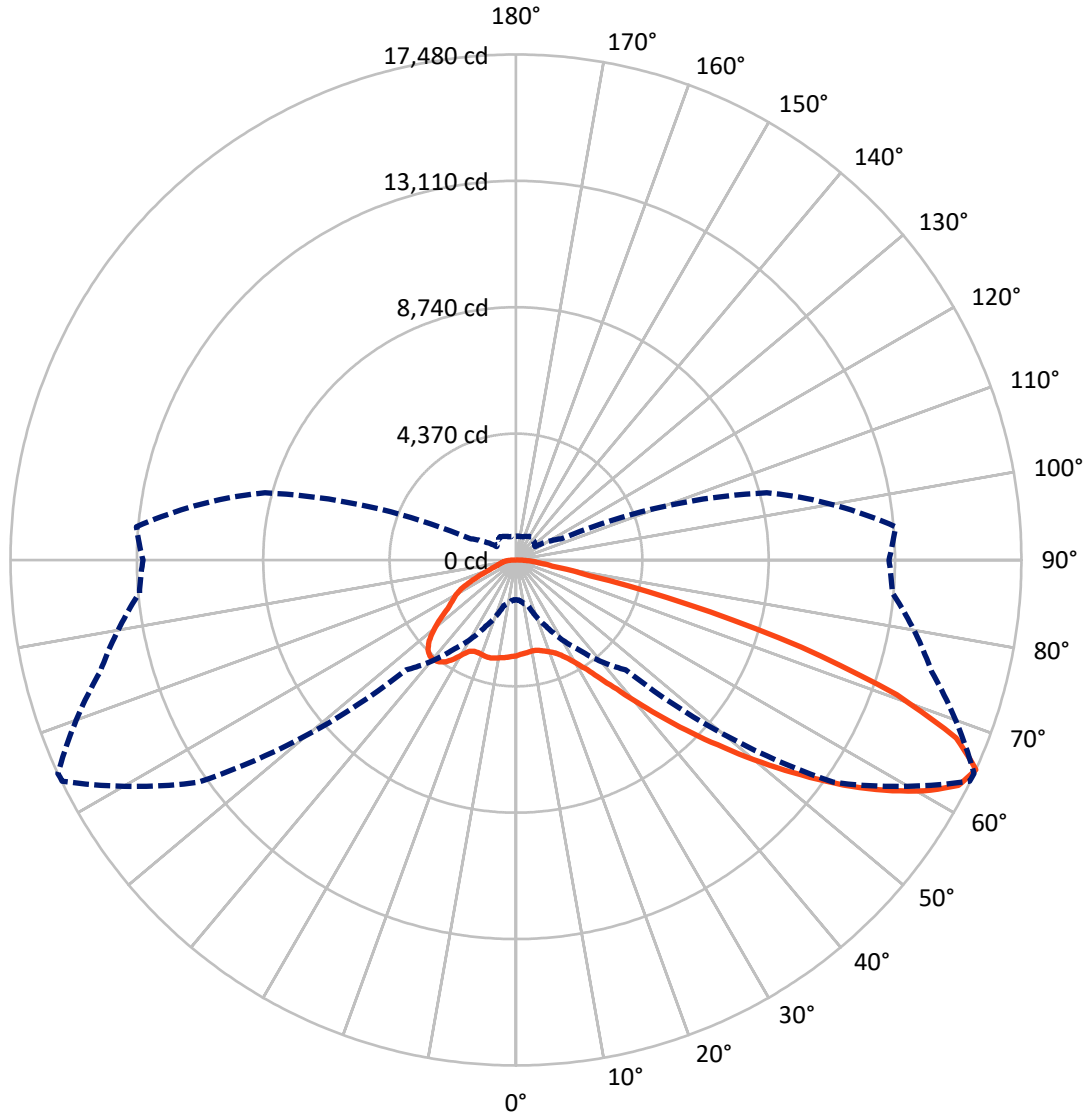
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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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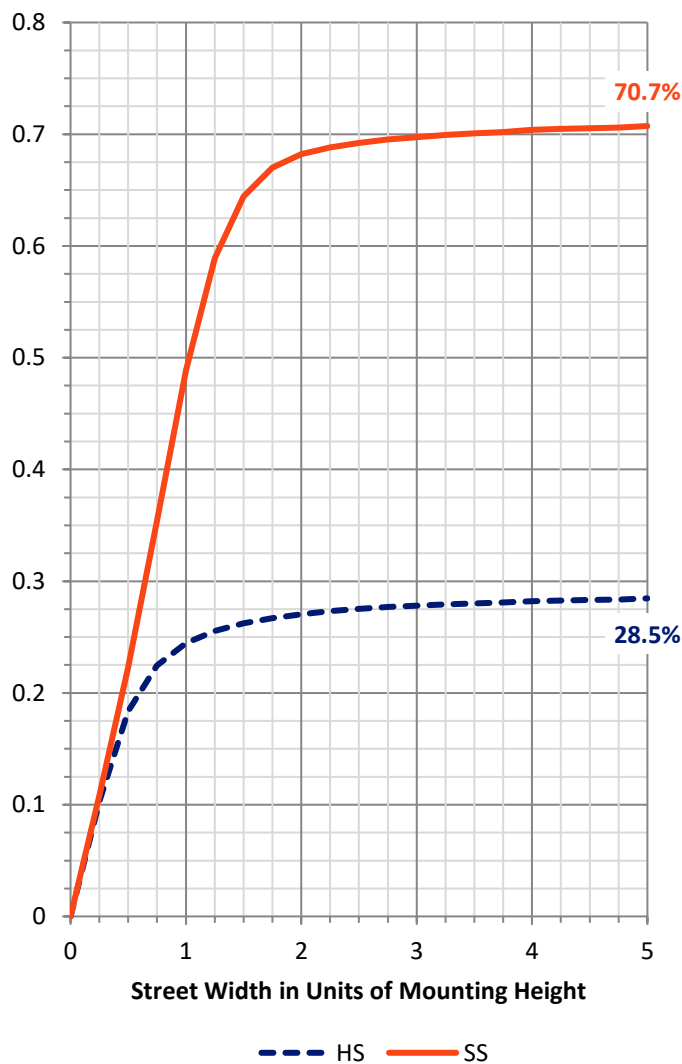
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7589.3	0.0	7589.3
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	18660.7	0.0	18660.7
	% Fixture	71.1	0.0	71.1
Total	Lumens	26250.0	0.0	26250.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.0	1.2
10°-20°	943.5	3.6
20°-30°	1675.9	6.4
30°-40°	2835.2	10.8
40°-50°	4935.5	18.8
50°-60°	6378.3	24.3
60°-70°	5581.3	21.3
70°-80°	3035.8	11.6
80°-90°	548.5	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°	26250.0	100.0
0°-180°	26250.0	100.0

Coefficient of Utilization



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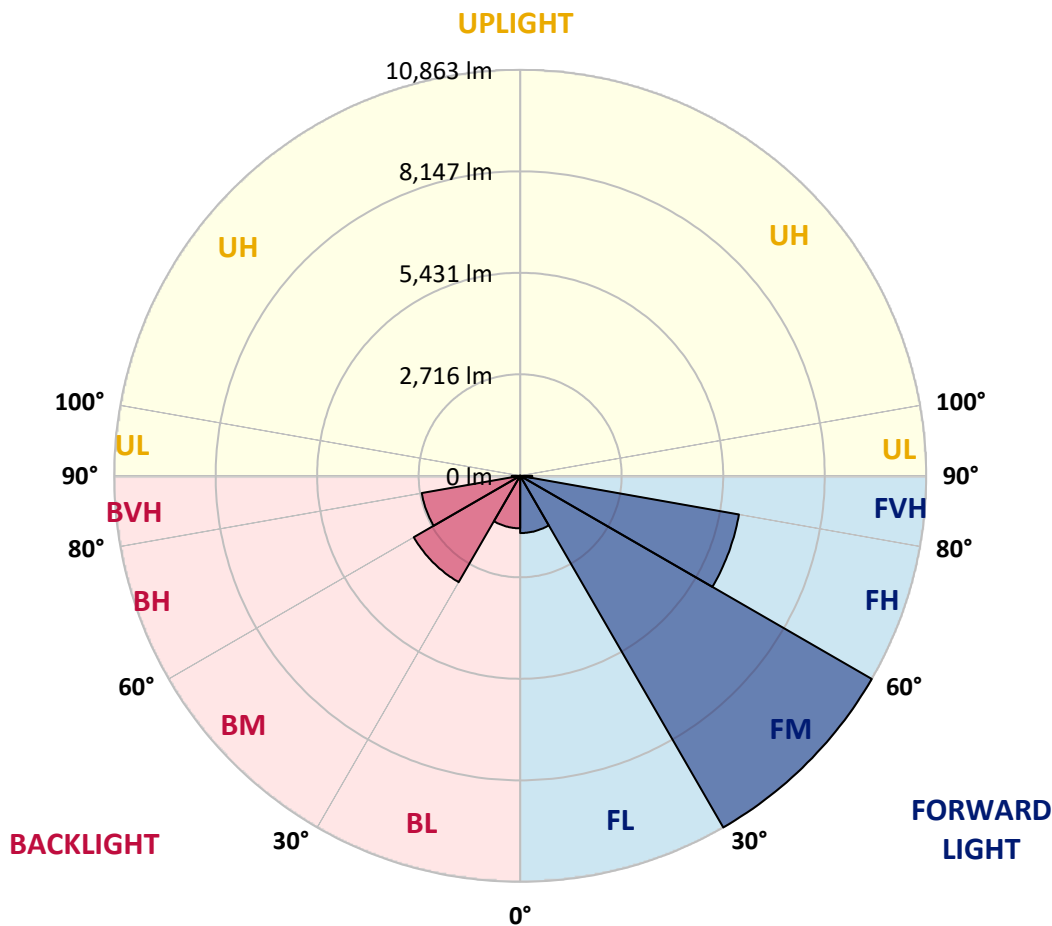
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1531.6	5.8			
FM (30°-60°)	10863.0	41.4			
FH (60°-80°)	5943.4	22.6			G3/7500
FVH (80°-90°)	322.8	1.2			G3/500
BL (0°-30°)	1403.7	5.3	B3/2500		
BM (30°-60°)	3286.0	12.5	B3/5000		
BH (60°-80°)	2673.8	10.2	B4/5000		G4/5000
BVH (80°-90°)	225.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3316.9	3316.9	3316.9	3316.9	3316.9	3316.9	3316.9	3316.9	3316.9	3316.9	3316.9
2.5°	3258.2	3254.7	3247.8	3254.7	3258.2	3265.1	3261.7	3268.6	3265.1	3275.5	3292.8
5°	3175.3	3168.4	3164.9	3182.2	3192.6	3209.8	3216.7	3240.9	3237.5	3254.7	3282.4
7.5°	3082.0	3082.0	3078.5	3099.3	3113.1	3144.2	3168.4	3209.8	3213.3	3244.4	3275.5
10°	3009.4	3012.9	3009.4	3026.7	3047.4	3085.4	3126.9	3185.6	3189.1	3234.0	3265.1
12.5°	2981.8	2981.8	2981.8	3006.0	3033.6	3085.4	3133.8	3196.0	3202.9	3251.3	3278.9
15°	3019.8	3023.3	3016.3	3040.5	3071.6	3133.8	3178.7	3244.4	3251.3	3296.2	3313.5
17.5°	3154.5	3168.4	3151.1	3164.9	3158.0	3206.4	3247.8	3313.5	3316.9	3354.9	3361.9
20°	3420.6	3434.4	3406.8	3389.5	3327.3	3323.9	3341.1	3393.0	3393.0	3417.1	3399.9
22.5°	3831.8	3845.6	3797.2	3731.6	3583.0	3510.4	3472.4	3496.6	3493.2	3503.5	3458.6
25°	4377.7	4374.2	4315.5	4194.5	3956.1	3779.9	3686.6	3648.6	3648.6	3627.9	3572.6
27.5°	5054.9	5003.1	4899.4	4754.3	4422.6	4177.3	3976.9	3880.1	3862.9	3800.7	3697.0
30°	5777.0	5739.0	5590.4	5379.7	4996.1	4681.7	4350.0	4156.5	4146.2	4011.4	3855.9
32.5°	6627.0	6564.8	6398.9	6146.7	5687.2	5244.9	4830.3	4536.6	4519.3	4305.1	4090.9
35°	7718.8	7667.0	7345.6	7093.4	6502.6	5922.1	5431.5	5041.1	5027.2	4764.6	4491.7
37.5°	9028.3	8893.5	8582.6	8109.2	7487.3	6799.7	6177.8	5687.2	5669.9	5379.7	5034.1
40°	10196.1	10075.2	9798.8	9363.4	8696.6	7933.0	7090.0	6495.7	6478.4	6126.0	5690.6
42.5°	11059.9	10977.0	10797.3	10545.1	10068.3	9605.3	8254.3	7473.5	7442.4	6986.3	6443.8
45°	11560.9	11495.3	11391.6	11453.8	11446.9	11360.5	9643.3	8637.9	8537.7	7946.8	7283.4
47.5°	11440.0	11381.3	11422.7	11906.4	12573.3	13074.3	11260.3	9829.9	9695.1	8924.6	8178.3
50°	10565.8	10590.0	10807.7	11733.7	13229.8	14342.3	13053.5	11187.8	11008.1	9909.4	9028.3
52.5°	8973.0	9031.8	9560.4	10856.1	13157.2	15164.6	14674.0	12590.6	12352.1	10869.9	9802.2
55°	7128.0	7276.5	7960.7	9322.0	12210.5	15223.4	15897.1	14000.3	13737.7	11771.7	10476.0
57.5°	5272.6	5493.7	6284.9	7535.7	10396.5	14293.9	16508.7	15347.8	15029.9	12666.6	11187.8
60°	3344.6	3479.3	4391.5	5866.8	7957.2	12020.5	16429.2	16494.9	16218.5	13558.0	11930.6
62.5°	2135.3	2200.9	2660.5	4184.2	5562.8	8900.5	15562.0	17362.1	17175.5	14370.0	12635.5
65°	1371.7	1399.3	1634.3	2574.1	3786.8	5372.8	13402.5	17455.4	17479.6	14877.9	13070.8
67.5°	1116.0	1129.8	1216.2	1589.4	2677.7	2968.0	9335.8	16128.6	16422.3	14746.6	12922.2
70°	1015.8	1033.1	1122.9	1268.0	2073.1	2048.9	4519.3	13495.8	13976.1	13989.9	12262.3
72.5°	856.9	881.1	1002.0	1198.9	1603.2	1617.0	1914.2	9612.2	10320.5	12504.2	11270.7
75°	715.2	729.0	832.7	1057.3	1357.9	1292.2	1344.1	5096.3	6119.1	10026.8	10216.9
77.5°	580.5	594.3	670.3	843.1	1205.8	1005.4	1057.3	2111.1	2608.6	6806.6	8351.1
80°	414.6	428.4	514.8	656.5	912.2	905.2	784.3	1164.4	1264.6	3679.7	5424.6
82.5°	297.1	307.5	390.4	469.9	632.3	908.7	590.8	791.2	829.2	1630.8	2187.1
85°	200.4	200.4	269.5	311.0	407.7	573.6	476.8	535.5	559.7	774.0	590.8
87.5°	86.4	86.4	145.1	158.9	214.2	266.0	355.9	269.5	276.4	418.1	241.9
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°	3316.9	3316.9	3316.9	3316.9	3316.9	3316.9	3316.9	3316.9	3316.9	3316.9	3316.9
2.5°	3303.1	3306.6	3313.5	3334.2	3348.0	3368.8	3379.1	3393.0	3393.0	3386.0	3389.5
5°	3296.2	3306.6	3330.8	3368.8	3393.0	3431.0	3458.6	3479.3	3486.2	3479.3	3482.8
7.5°	3292.8	3310.0	3351.5	3406.8	3441.3	3489.7	3527.7	3551.9	3569.2	3562.3	3565.7
10°	3282.4	3310.0	3361.9	3431.0	3482.8	3531.2	3565.7	3576.1	3586.4	3579.5	3576.1
12.5°	3296.2	3327.3	3382.6	3465.5	3524.2	3562.3	3572.6	3555.3	3531.2	3517.3	3513.9
15°	3323.9	3354.9	3410.2	3496.6	3548.4	3562.3	3538.1	3482.8	3427.5	3396.4	3393.0
17.5°	3361.9	3382.6	3427.5	3503.5	3545.0	3527.7	3479.3	3413.7	3372.2	3348.0	3351.5
20°	3386.0	3386.0	3420.6	3479.3	3513.9	3500.1	3441.3	3368.8	3303.1	3272.0	3261.7
22.5°	3420.6	3403.3	3406.8	3458.6	3507.0	3486.2	3361.9	3234.0	3140.7	3106.2	3102.7
25°	3513.9	3465.5	3434.4	3465.5	3579.5	3410.2	3161.5	3012.9	2926.5	2895.4	2898.9
27.5°	3627.9	3562.3	3496.6	3548.4	3638.3	3237.5	2905.8	2736.5	2684.6	2660.5	2670.8
30°	3741.9	3655.5	3569.2	3755.7	3596.8	2968.0	2577.5	2411.7	2366.8	2349.5	2363.3
32.5°	3952.7	3811.0	3707.4	4032.2	3469.0	2660.5	2221.7	2069.6	2028.2	2007.4	2000.5
35°	4305.1	4125.4	4021.8	4274.0	3289.3	2318.4	1896.9	1789.8	1744.8	1699.9	1693.0
37.5°	4813.0	4595.3	4502.1	4412.2	3037.1	1979.8	1648.1	1575.5	1509.9	1440.8	1437.3
40°	5421.1	5137.8	5068.7	4474.4	2688.1	1661.9	1475.3	1406.2	1323.3	1257.7	1261.1
42.5°	6122.5	5759.7	5611.2	4457.1	2256.2	1492.6	1351.0	1274.9	1202.4	1143.7	1140.2
45°	6872.3	6461.1	6119.1	4336.2	1827.8	1375.1	1274.9	1185.1	1112.6	1046.9	1040.0
47.5°	7701.5	7242.0	6589.0	4101.3	1509.9	1292.2	1230.0	1102.2	1036.5	995.1	995.1
50°	8537.7	7988.3	7020.9	3745.4	1323.3	1230.0	1164.4	1057.3	1005.4	970.9	970.9
52.5°	9252.9	8765.7	7376.7	3320.4	1205.8	1178.2	1119.5	1036.5	981.3	950.2	946.7
55°	9947.4	9487.8	7694.6	2898.9	1109.1	1109.1	1109.1	1019.3	957.1	929.4	926.0
57.5°	10638.4	10248.0	8026.3	2622.5	1022.7	1050.4	1088.4	998.5	936.3	912.2	908.7
60°	11419.3	11160.1	8409.8	2429.0	946.7	988.2	1060.7	974.4	901.8	881.1	877.6
62.5°	12248.5	12248.5	8758.8	2156.0	877.6	936.3	1019.3	943.3	870.7	853.4	850.0
65°	12898.1	13177.9	8983.4	1748.3	808.5	884.5	970.9	901.8	829.2	825.8	818.9
67.5°	12974.1	13412.9	8841.7	1319.9	746.3	829.2	922.5	856.9	787.8	787.8	777.4
70°	12428.2	12873.9	8399.5	988.2	701.4	774.0	860.3	801.6	735.9	742.9	725.6
72.5°	11516.0	11626.6	7300.7	780.9	649.6	715.2	784.3	739.4	680.7	680.7	656.5
75°	10313.6	9698.6	5303.6	653.0	587.4	646.1	708.3	670.3	618.5	601.2	587.4
77.5°	8209.4	7027.8	3082.0	563.2	535.5	580.5	621.9	594.3	549.4	511.4	511.4
80°	5003.1	4118.5	1361.3	487.2	473.4	507.9	535.5	504.5	466.4	428.4	418.1
82.5°	1903.8	1589.4	659.9	418.1	414.6	435.3	456.1	425.0	397.3	380.1	328.2
85°	521.7	480.3	452.6	349.0	342.1	338.6	362.8	349.0	311.0	255.7	228.0
87.5°	196.9	224.6	245.3	214.2	228.0	210.8	241.9	221.1	196.9	127.8	114.0
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)