

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: P400423

Luminaire Tested: **ARCH-L-PA3-280-727-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400423
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-PA3-280-727-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1180mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29830 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

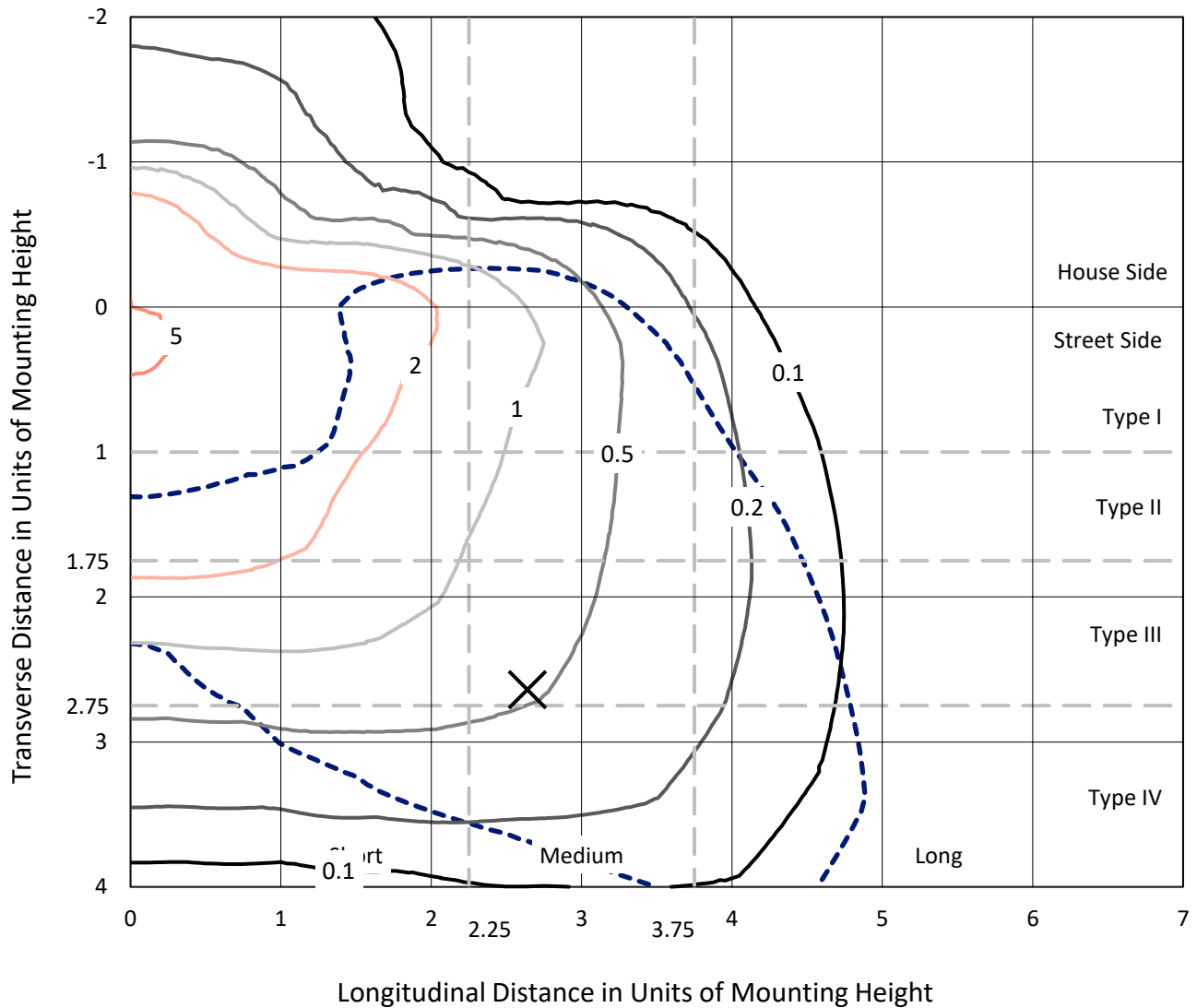
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

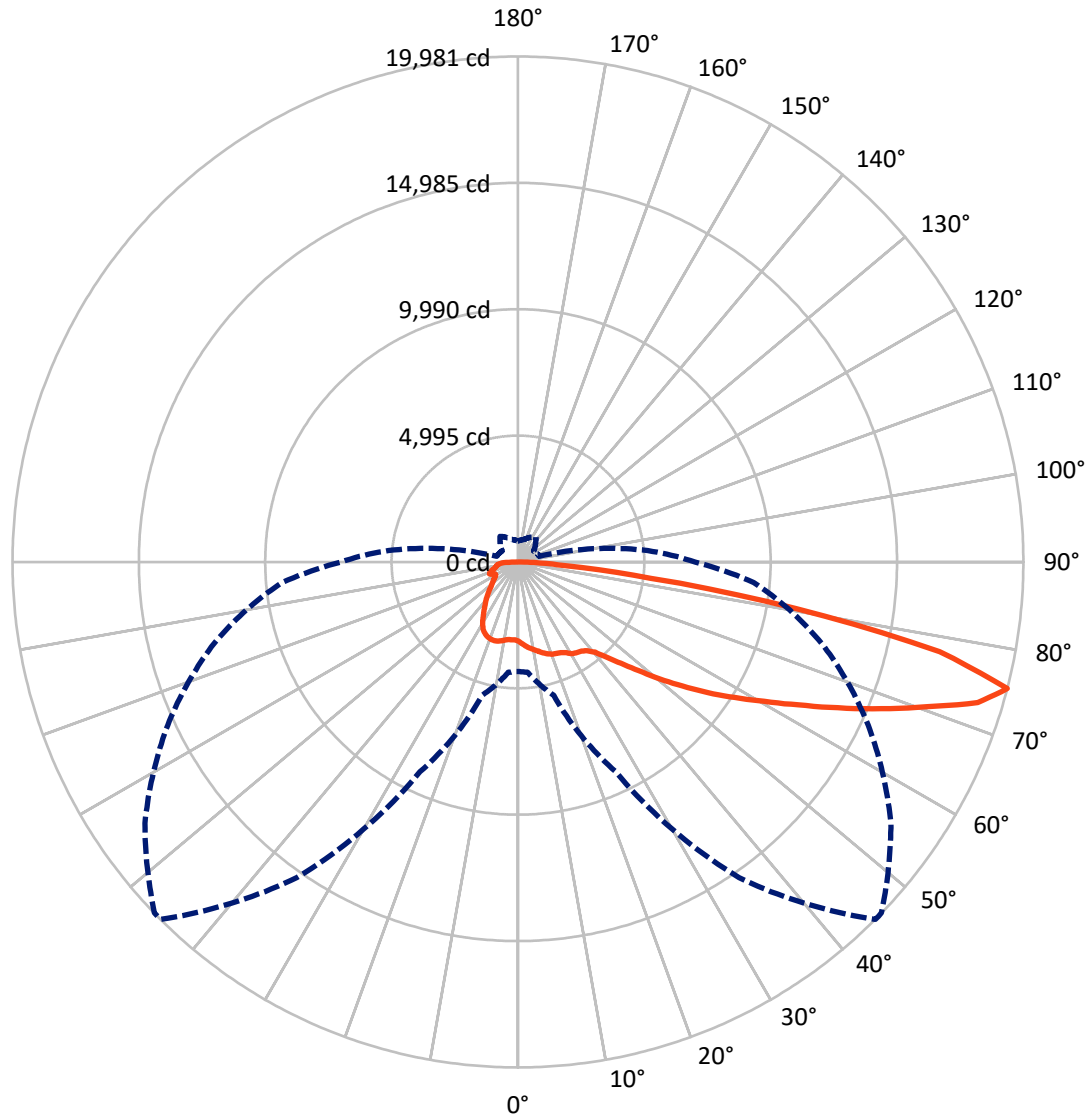
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Medium - N/A

REPORT NUMBER: P400423
CATALOG NUMBER: ARCH-L-PA3-280-727-U-T4W

Luminous Intensity Polar Plot



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



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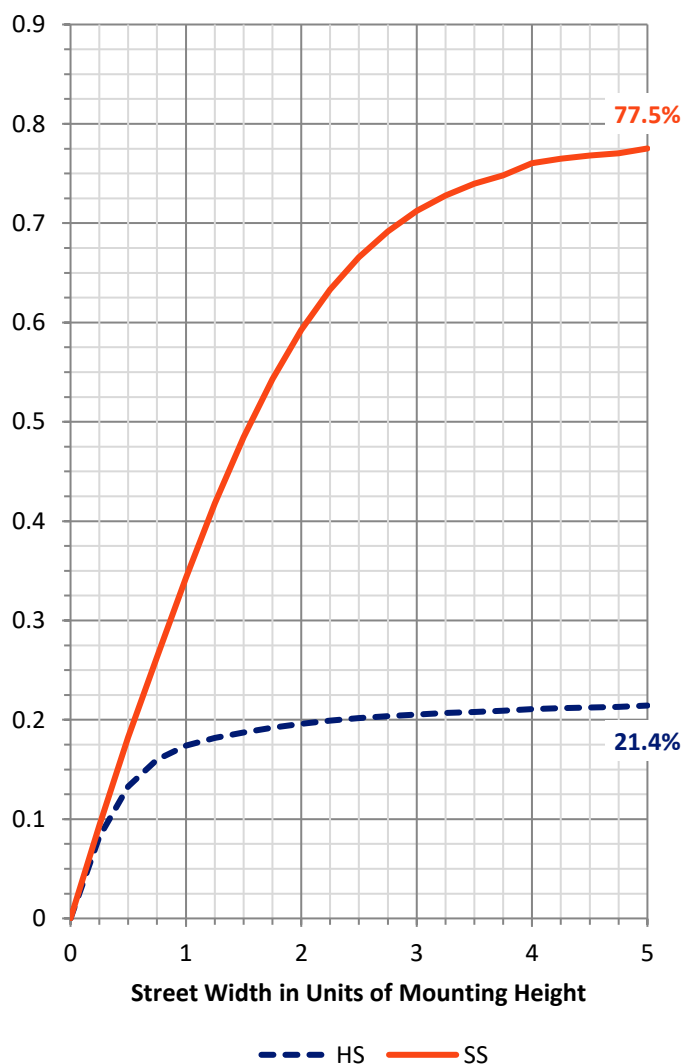
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6592.3	0.0	6592.3
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	23237.7	0.0	23237.7
	% Fixture	77.9	0.0	77.9
Total	Lumens	29830.0	0.0	29830.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.9	1.0
10°-20°	986.0	3.3
20°-30°	1681.0	5.6
30°-40°	2355.2	7.9
40°-50°	3460.2	11.6
50°-60°	5506.9	18.5
60°-70°	7833.5	26.3
70°-80°	6559.0	22.0
80°-90°	1138.3	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°	29830.0	100.0
0°-180°	29830.0	100.0

Coefficient of Utilization



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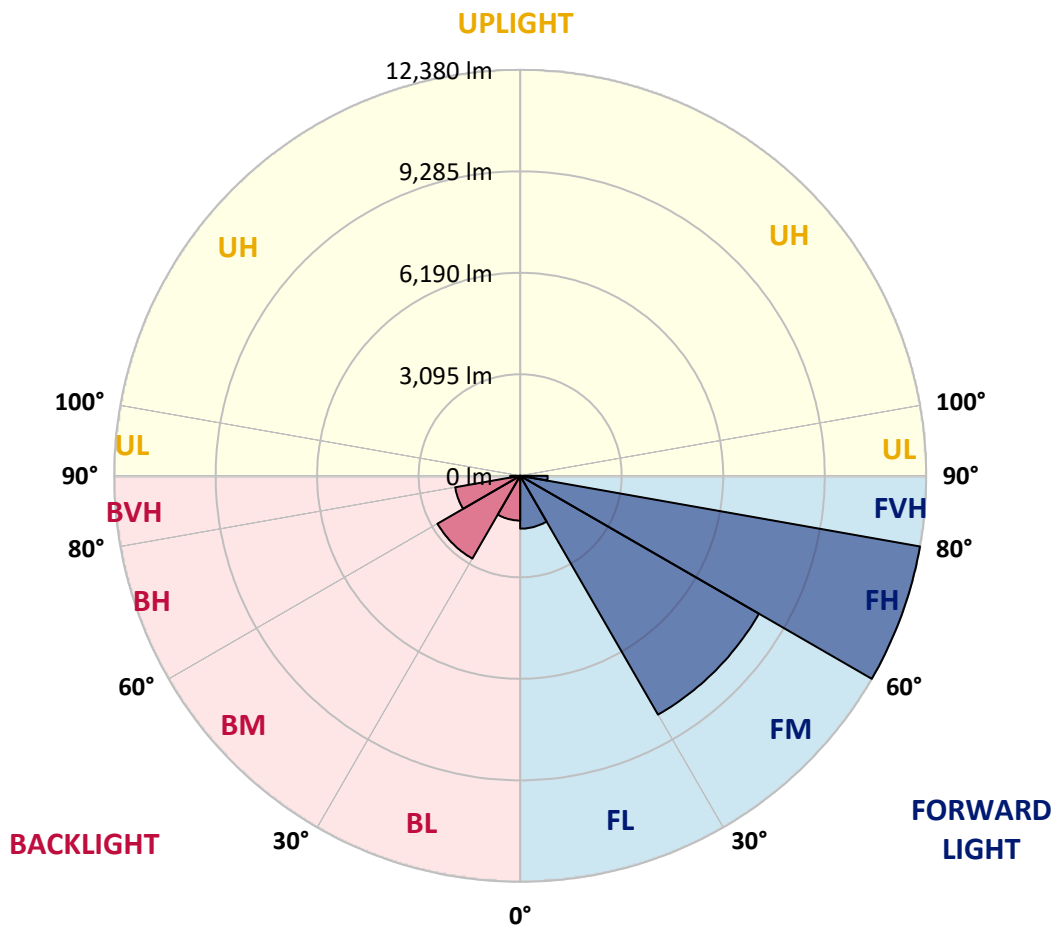
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1612.5	5.4			
FM (30°-60°)	8408.2	28.2			
FH (60°-80°)	12380.2	41.5			G5
FVH (80°-90°)	836.9	2.8			G5
BL (0°-30°)	1364.4	4.6	B3/2500		
BM (30°-60°)	2914.1	9.8	B3/5000		
BH (60°-80°)	2012.4	6.7	B3/2500		G3/2500
BVH (80°-90°)	301.5	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-G5

Type IV Medium





REPORT NUMBER: P400423

CATALOG NUMBER: ARCH-L-PA3-280-727-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3132.8	3132.8	3132.8	3132.8	3132.8	3132.8	3132.8	3132.8	3132.8	3132.8	3132.8
2.5°	3312.2	3296.2	3288.2	3288.2	3256.4	3236.4	3232.4	3204.5	3180.6	3156.7	3136.8
5°	3503.5	3491.5	3467.6	3447.7	3403.8	3348.0	3340.1	3280.3	3220.5	3164.7	3116.9
7.5°	3678.9	3654.9	3627.0	3587.2	3515.4	3439.7	3427.7	3344.0	3260.3	3176.6	3112.9
10°	3826.3	3802.4	3762.6	3706.8	3615.1	3523.4	3511.4	3423.8	3336.1	3236.4	3144.8
12.5°	3965.8	3945.9	3886.1	3810.4	3702.8	3619.1	3607.1	3531.4	3439.7	3328.1	3208.5
15°	4085.4	4065.5	4001.7	3914.0	3790.5	3726.7	3710.7	3639.0	3547.3	3427.7	3304.2
17.5°	4145.2	4145.2	4077.4	3981.8	3866.2	3818.4	3806.4	3718.7	3635.0	3519.4	3395.9
20°	4165.1	4173.1	4125.3	4009.7	3910.0	3890.1	3878.1	3806.4	3710.7	3599.1	3483.5
22.5°	4177.1	4193.0	4153.2	4021.6	3937.9	3926.0	3918.0	3870.2	3794.4	3686.8	3571.2
25°	4216.9	4216.9	4189.0	4041.6	3973.8	3969.8	3969.8	3941.9	3890.1	3798.4	3682.8
27.5°	4276.7	4272.7	4236.9	4085.4	4053.5	4065.5	4061.5	4057.5	4021.6	3930.0	3806.4
30°	4376.4	4376.4	4336.5	4173.1	4153.2	4205.0	4209.0	4216.9	4161.1	4017.6	3918.0
32.5°	4527.8	4511.9	4472.0	4260.8	4228.9	4276.7	4284.7	4280.7	4232.9	4097.4	4049.5
35°	4994.1	4958.3	4814.8	4456.1	4296.6	4324.5	4328.5	4348.5	4356.4	4248.8	4224.9
37.5°	5811.2	5763.4	5544.2	4918.4	4511.9	4444.1	4440.1	4491.9	4535.8	4440.1	4440.1
40°	6700.1	6660.2	6532.7	5715.6	4910.4	4687.2	4671.3	4719.1	4774.9	4707.2	4727.1
42.5°	7465.3	7497.2	7509.2	6560.6	5508.3	5141.6	5097.8	5030.0	5117.7	5057.9	5137.6
45°	8039.3	8023.3	8242.5	7425.5	6281.5	5711.6	5651.8	5468.5	5580.1	5576.1	5751.4
47.5°	8649.1	8621.2	8712.9	8238.6	7162.4	6409.1	6317.4	6046.4	6213.8	6329.4	6620.3
50°	9227.0	9235.0	9266.9	8880.3	8119.0	7258.1	7142.5	6779.8	7018.9	7262.0	7672.6
52.5°	9980.3	9924.5	9884.7	9629.6	9191.1	8142.9	8067.2	7652.6	7987.5	8274.4	8820.5
55°	10638.0	10602.1	10578.2	10566.2	10087.9	9119.4	9039.7	8609.2	9091.5	9294.8	10099.9
57.5°	11339.5	11319.5	11447.1	11650.4	11459.0	10111.9	10028.2	9613.6	10151.7	10295.2	11486.9
60°	11853.6	11865.6	12216.3	12734.5	12603.0	11188.0	11088.4	10721.7	11184.0	11311.6	12874.0
62.5°	11857.6	11977.2	12790.3	13719.0	13870.4	12427.6	12312.0	11913.4	12244.2	12244.2	14117.5
65°	10725.7	10861.2	12686.7	13962.1	15153.8	13902.3	13790.7	13164.9	13288.5	13121.1	15285.4
67.5°	9597.7	9757.1	11475.0	13982.0	16054.6	15480.7	15349.1	14416.5	14205.2	13782.7	16102.4
70°	8848.4	8960.0	10394.8	13723.0	16596.7	17130.8	17031.1	15604.2	14926.6	14336.8	15931.1
72.5°	7449.4	7409.5	8780.6	12491.4	16899.6	19004.1	18920.4	16895.6	15552.4	14073.7	13587.4
75°	4324.5	4372.4	5448.5	9151.3	15233.6	19980.6	19972.6	17999.7	15277.4	12431.6	9362.5
77.5°	1247.5	1283.4	1789.6	4021.6	9633.6	17043.1	17589.1	16461.2	12913.8	8860.3	4854.6
80°	546.0	573.9	777.2	1339.2	4149.2	11132.2	11610.5	11132.2	7788.2	4065.5	1905.2
82.5°	322.8	342.8	506.2	829.0	1988.9	5297.1	5942.8	5189.5	3360.0	1725.8	789.2
85°	183.3	191.3	291.0	526.1	1251.5	1853.4	2080.6	1949.0	1638.1	980.5	414.5
87.5°	83.7	87.7	143.5	247.1	701.5	625.8	649.7	860.9	948.6	597.9	207.3
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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CATALOG NUMBER: ARCH-L-PA3-280-727-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3132.8	3132.8	3132.8	3132.8	3132.8	3132.8	3132.8	3132.8	3132.8	3132.8	3132.8
2.5°	3128.8	3116.9	3092.9	3085.0	3073.0	3077.0	3081.0	3081.0	3085.0	3073.0	3073.0
5°	3096.9	3077.0	3053.1	3053.1	3053.1	3085.0	3112.9	3128.8	3136.8	3136.8	3128.8
7.5°	3085.0	3061.1	3033.2	3041.1	3049.1	3089.0	3140.8	3192.6	3208.5	3208.5	3200.6
10°	3108.9	3085.0	3065.0	3077.0	3096.9	3128.8	3168.7	3216.5	3256.4	3260.3	3256.4
12.5°	3164.7	3136.8	3116.9	3140.8	3164.7	3184.6	3204.5	3224.5	3276.3	3284.3	3284.3
15°	3256.4	3228.5	3204.5	3224.5	3232.4	3232.4	3232.4	3232.4	3284.3	3292.2	3292.2
17.5°	3348.0	3324.1	3300.2	3304.2	3280.3	3248.4	3236.4	3232.4	3260.3	3284.3	3288.2
20°	3435.7	3415.8	3391.9	3352.0	3292.2	3232.4	3212.5	3212.5	3228.5	3264.3	3264.3
22.5°	3531.4	3507.5	3467.6	3375.9	3276.3	3192.6	3172.7	3184.6	3204.5	3252.4	3248.4
25°	3639.0	3607.1	3539.3	3368.0	3224.5	3124.8	3128.8	3164.7	3200.6	3252.4	3252.4
27.5°	3758.6	3714.7	3579.2	3304.2	3108.9	3013.2	3049.1	3132.8	3184.6	3240.4	3248.4
30°	3890.1	3850.2	3611.1	3192.6	2921.6	2833.9	2921.6	3057.1	3136.8	3188.6	3200.6
32.5°	4049.5	4017.6	3639.0	3049.1	2678.4	2602.7	2730.2	2897.6	3025.2	3085.0	3096.9
35°	4248.8	4216.9	3674.9	2885.7	2451.2	2371.5	2487.1	2658.5	2825.9	2901.6	2925.5
37.5°	4507.9	4460.1	3706.8	2710.3	2259.9	2168.3	2224.1	2379.5	2531.0	2634.6	2662.5
40°	4838.7	4763.0	3734.7	2511.0	2092.5	1988.9	2008.8	2084.5	2172.2	2263.9	2299.8
42.5°	5305.0	5153.6	3738.6	2299.8	1921.1	1825.5	1817.5	1841.4	1841.4	1841.4	1853.4
45°	5954.7	5667.7	3746.6	2100.5	1745.8	1646.1	1622.2	1614.2	1554.4	1438.9	1430.9
47.5°	6775.8	6341.3	3782.5	1933.1	1562.4	1474.7	1442.8	1411.0	1299.4	1179.8	1155.9
50°	7828.0	7122.5	3854.2	1773.7	1407.0	1347.2	1307.3	1231.6	1108.0	1016.4	992.5
52.5°	9039.7	8051.2	3922.0	1606.3	1291.4	1251.5	1203.7	1112.0	980.5	924.7	916.7
55°	10430.7	9087.5	4057.5	1458.8	1191.7	1163.8	1120.0	1032.3	932.7	892.8	888.8
57.5°	11853.6	10247.4	4248.8	1327.3	1096.1	1080.1	1080.1	1004.4	940.6	924.7	924.7
60°	13224.7	11243.8	4101.3	1203.7	1008.4	1016.4	1092.1	1072.2	1024.3	1044.3	1056.2
62.5°	14288.9	11829.7	3328.1	1104.1	944.6	1016.4	1211.7	1211.7	1155.9	1147.9	1147.9
65°	14743.3	11821.7	2339.6	1028.3	920.7	1116.0	1351.2	1287.4	1139.9	1084.1	1072.2
67.5°	14627.7	11303.6	1614.2	976.5	912.7	1219.6	1414.9	1235.6	1068.2	1020.4	984.5
70°	13611.4	10207.5	1243.6	928.7	900.8	1175.8	1395.0	1175.8	1012.4	968.5	936.7
72.5°	10980.8	8186.7	1032.3	880.9	853.0	1088.1	1327.3	1120.0	968.5	920.7	888.8
75°	7003.0	5149.6	872.9	817.1	761.3	976.5	1235.6	1064.2	920.7	856.9	833.0
77.5°	3368.0	2220.1	761.3	741.4	685.5	904.8	1143.9	992.5	856.9	805.1	789.2
80°	1363.1	1016.4	661.6	665.6	629.7	860.9	1080.1	924.7	793.2	737.4	709.5
82.5°	709.5	589.9	558.0	573.9	573.9	821.1	1032.3	868.9	737.4	713.4	621.8
85°	382.6	366.7	430.5	462.3	498.2	741.4	960.6	809.1	673.6	577.9	558.0
87.5°	187.3	239.1	243.1	279.0	346.8	593.9	809.1	677.6	562.0	466.3	458.4
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)