

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: P400405

Luminaire Tested: **ARCH-L-PA3-270-830-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400405
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-PA3-270-830-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 1155mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27930 lumens
Efficiency: N/A
Efficacy: 102.3 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

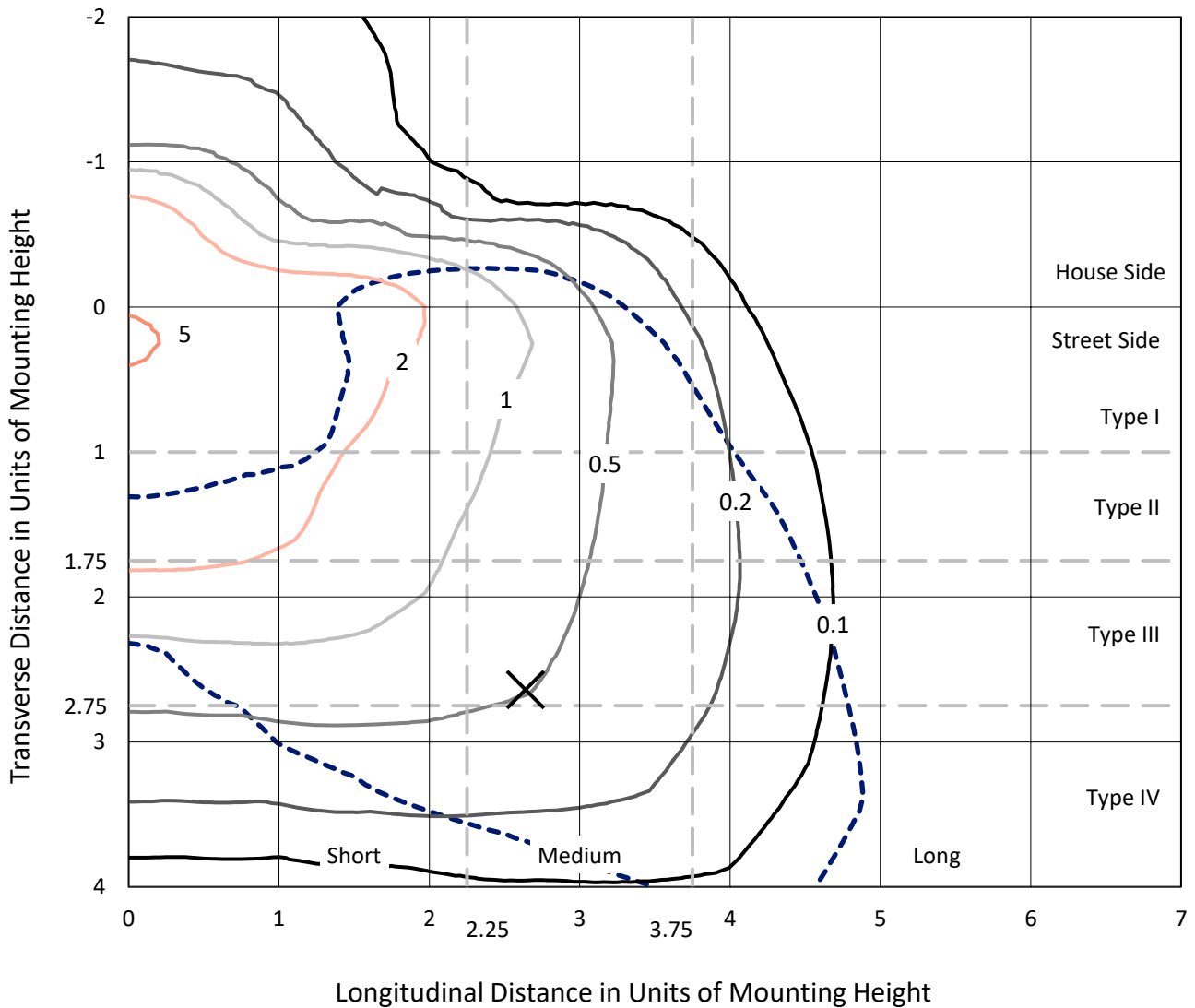
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

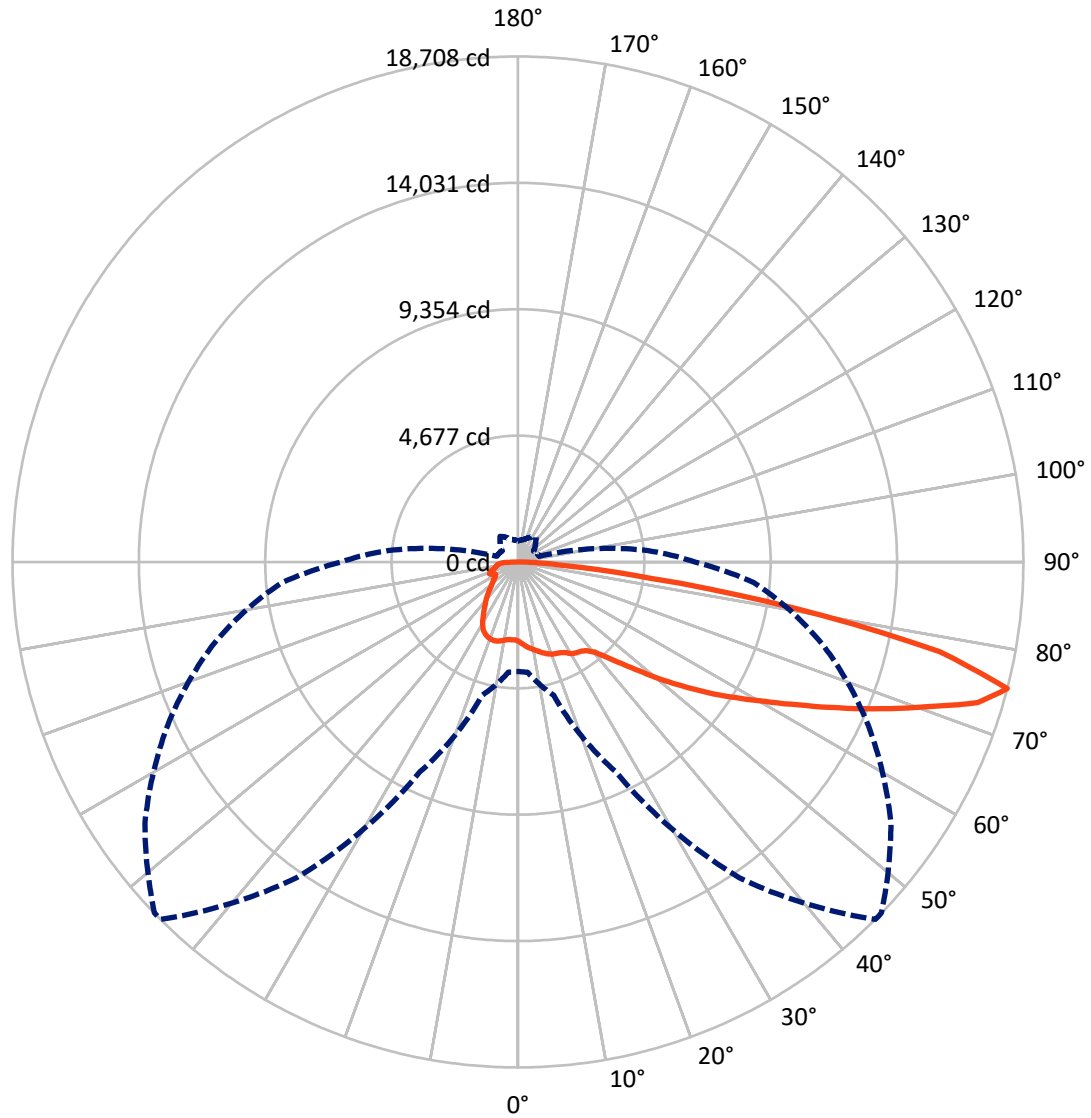
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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

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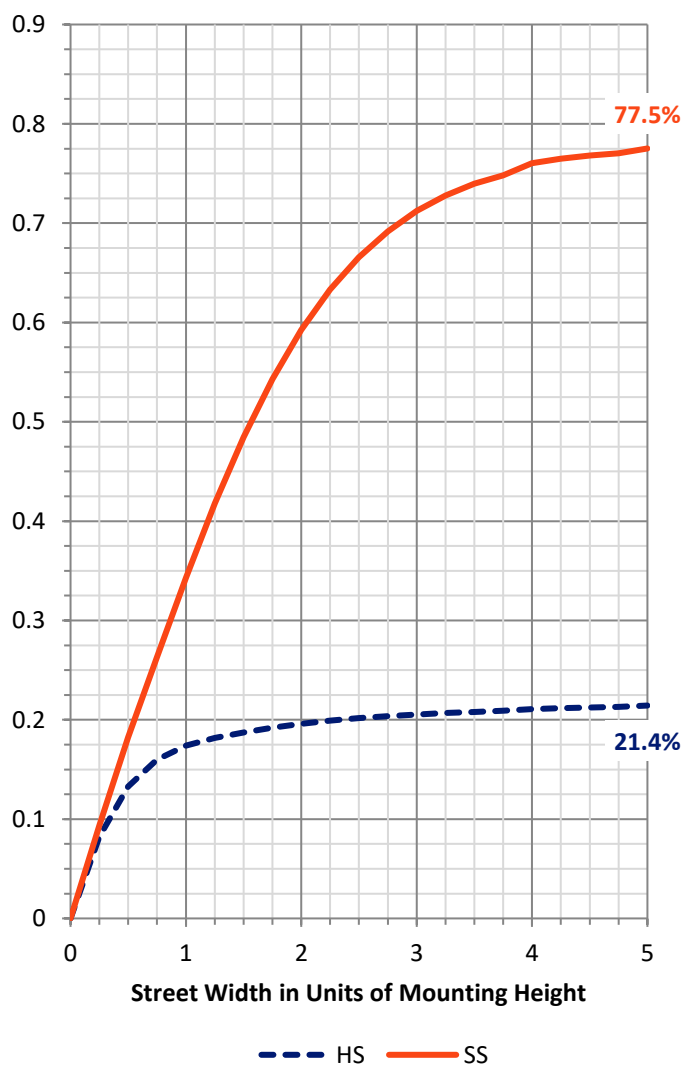
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6172.4	0.0	6172.4
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	21757.6	0.0	21757.6
	% Fixture	77.9	0.0	77.9
Total	Lumens	27930.0	0.0	27930.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.2	1.0
10°-20°	923.2	3.3
20°-30°	1573.9	5.6
30°-40°	2205.2	7.9
40°-50°	3239.8	11.6
50°-60°	5156.1	18.5
60°-70°	7334.6	26.3
70°-80°	6141.3	22.0
80°-90°	1065.8	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°	27930.0	100.0
0°-180°	27930.0	100.0

Coefficient of Utilization

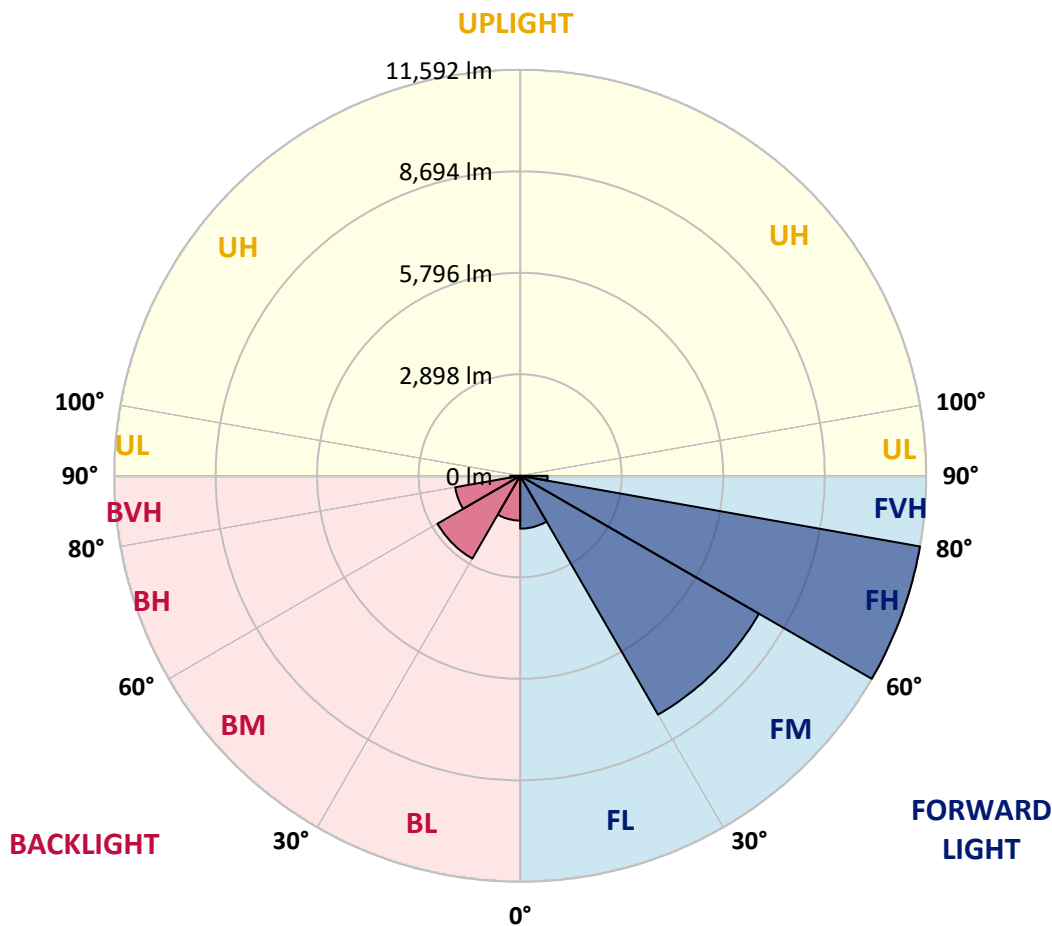


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1509.8	5.4			
FM (30°-60°)	7872.6	28.2			
FH (60°-80°)	11591.6	41.5			G4/12000
FVH (80°-90°)	783.5	2.8			G5
BL (0°-30°)	1277.4	4.6	B3/2500		
BM (30°-60°)	2728.5	9.8	B3/5000		
BH (60°-80°)	1884.2	6.7	B3/2500		G3/2500
BVH (80°-90°)	282.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2933.3	2933.3	2933.3	2933.3	2933.3	2933.3	2933.3	2933.3	2933.3	2933.3	2933.3
2.5°	3101.2	3086.3	3078.8	3078.8	3048.9	3030.3	3026.6	3000.4	2978.0	2955.7	2937.0
5°	3280.3	3269.1	3246.7	3228.1	3187.0	3134.8	3127.3	3071.3	3015.4	2963.1	2918.3
7.5°	3444.5	3422.1	3396.0	3358.7	3291.5	3220.6	3209.4	3131.1	3052.7	2974.3	2914.6
10°	3582.6	3560.2	3522.9	3470.7	3384.8	3299.0	3287.8	3205.7	3123.6	3030.3	2944.5
12.5°	3713.2	3694.6	3638.6	3567.7	3466.9	3388.6	3377.4	3306.4	3220.6	3116.1	3004.2
15°	3825.2	3806.5	3746.8	3664.7	3549.0	3489.3	3474.4	3407.2	3321.4	3209.4	3093.7
17.5°	3881.2	3881.2	3817.7	3728.2	3619.9	3575.1	3563.9	3481.8	3403.5	3295.3	3179.6
20°	3899.8	3907.3	3862.5	3754.3	3661.0	3642.3	3631.1	3563.9	3474.4	3369.9	3261.7
22.5°	3911.0	3925.9	3888.6	3765.5	3687.1	3675.9	3668.4	3623.7	3552.8	3452.0	3343.8
25°	3948.3	3948.3	3922.2	3784.1	3720.7	3717.0	3717.0	3690.8	3642.3	3556.5	3448.3
27.5°	4004.3	4000.6	3967.0	3825.2	3795.3	3806.5	3802.8	3799.1	3765.5	3679.6	3563.9
30°	4097.6	4097.6	4060.3	3907.3	3888.6	3937.1	3940.9	3948.3	3896.1	3761.7	3668.4
32.5°	4239.4	4224.5	4187.2	3989.4	3959.5	4004.3	4011.8	4008.0	3963.3	3836.4	3791.6
35°	4676.1	4642.5	4508.1	4172.2	4023.0	4049.1	4052.8	4071.5	4078.9	3978.2	3955.8
37.5°	5441.1	5396.3	5191.1	4605.1	4224.5	4161.1	4157.3	4205.8	4246.9	4157.3	4157.3
40°	6273.3	6236.0	6116.6	5351.5	4597.7	4388.7	4373.8	4418.6	4470.8	4407.4	4426.0
42.5°	6989.8	7019.7	7030.9	6142.7	5157.5	4814.1	4773.1	4709.6	4791.7	4735.8	4810.4
45°	7527.2	7512.3	7717.5	6952.5	5881.4	5347.8	5291.8	5120.1	5224.6	5220.9	5385.1
47.5°	8098.2	8072.1	8157.9	7713.8	6706.2	6000.9	5915.0	5661.3	5818.0	5926.2	6198.7
50°	8639.3	8646.8	8676.6	8314.6	7601.8	6795.8	6687.5	6347.9	6571.8	6799.5	7183.9
52.5°	9344.6	9292.4	9255.1	9016.2	8605.7	7624.2	7553.3	7165.2	7478.7	7747.4	8258.7
55°	9960.4	9926.8	9904.4	9893.2	9445.4	8538.6	8463.9	8060.9	8512.4	8702.8	9456.6
57.5°	10617.2	10598.6	10718.0	10908.3	10729.2	9467.8	9389.4	9001.3	9505.1	9639.5	10755.3
60°	11098.6	11109.8	11438.2	11923.4	11800.2	10475.4	10382.1	10038.8	10471.7	10591.1	12054.0
62.5°	11102.4	11214.3	11975.6	12845.1	12987.0	11636.0	11527.8	11154.6	11464.3	11464.3	13218.3
65°	10042.5	10169.4	11878.6	13072.8	14188.6	13016.8	12912.3	12326.4	12442.1	12285.4	14311.8
67.5°	8986.4	9135.7	10744.1	13091.5	15032.0	14494.6	14371.5	13498.2	13300.4	12904.9	15076.8
70°	8284.8	8389.3	9732.8	12848.9	15539.6	16039.6	15946.3	14610.3	13975.9	13423.6	14916.3
72.5°	6974.9	6937.6	8221.3	11695.7	15823.2	17793.6	17715.3	15819.5	14561.8	13177.3	12722.0
75°	4049.1	4093.9	5101.5	8568.4	14263.3	18707.9	18700.5	16853.2	14304.3	11639.7	8766.2
77.5°	1168.1	1201.7	1675.6	3765.5	9020.0	15957.5	16468.8	15412.7	12091.3	8296.0	4545.4
80°	511.3	537.4	727.7	1253.9	3884.9	10423.2	10871.0	10423.2	7292.1	3806.5	1783.8
82.5°	302.3	320.9	473.9	776.2	1862.2	4959.7	5564.2	4858.9	3146.0	1615.9	738.9
85°	171.7	179.1	272.4	492.6	1171.8	1735.3	1948.0	1824.9	1533.8	918.0	388.1
87.5°	78.4	82.1	134.3	231.4	656.8	585.9	608.3	806.1	888.2	559.8	194.1
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°	2933.3	2933.3	2933.3	2933.3	2933.3	2933.3	2933.3	2933.3	2933.3	2933.3	2933.3
2.5°	2929.5	2918.3	2895.9	2888.5	2877.3	2881.0	2884.7	2884.7	2888.5	2877.3	2877.3
5°	2899.7	2881.0	2858.6	2858.6	2858.6	2888.5	2914.6	2929.5	2937.0	2937.0	2929.5
7.5°	2888.5	2866.1	2840.0	2847.4	2854.9	2892.2	2940.7	2989.2	3004.2	3004.2	2996.7
10°	2910.9	2888.5	2869.8	2881.0	2899.7	2929.5	2966.8	3011.6	3048.9	3052.7	3048.9
12.5°	2963.1	2937.0	2918.3	2940.7	2963.1	2981.8	3000.4	3019.1	3067.6	3075.1	3075.1
15°	3048.9	3022.8	3000.4	3019.1	3026.6	3026.6	3026.6	3026.6	3075.1	3082.5	3082.5
17.5°	3134.8	3112.4	3090.0	3093.7	3071.3	3041.5	3030.3	3026.6	3052.7	3075.1	3078.8
20°	3216.9	3198.2	3175.8	3138.5	3082.5	3026.6	3007.9	3007.9	3022.8	3056.4	3056.4
22.5°	3306.4	3284.1	3246.7	3160.9	3067.6	2989.2	2970.6	2981.8	3000.4	3045.2	3041.5
25°	3407.2	3377.4	3313.9	3153.4	3019.1	2925.8	2929.5	2963.1	2996.7	3045.2	3045.2
27.5°	3519.2	3478.1	3351.2	3093.7	2910.9	2821.3	2854.9	2933.3	2981.8	3034.0	3041.5
30°	3642.3	3605.0	3381.1	2989.2	2735.5	2653.4	2735.5	2862.4	2937.0	2985.5	2996.7
32.5°	3791.6	3761.7	3407.2	2854.9	2507.8	2436.9	2556.3	2713.1	2832.5	2888.5	2899.7
35°	3978.2	3948.3	3440.8	2701.9	2295.1	2220.5	2328.7	2489.2	2645.9	2716.8	2739.2
37.5°	4220.8	4176.0	3470.7	2537.7	2116.0	2030.1	2082.4	2227.9	2369.7	2466.8	2492.9
40°	4530.5	4459.6	3496.8	2351.1	1959.2	1862.2	1880.9	1951.8	2033.9	2119.7	2153.3
42.5°	4967.1	4825.3	3500.5	2153.3	1798.8	1709.2	1701.7	1724.1	1724.1	1724.1	1735.3
45°	5575.4	5306.7	3508.0	1966.7	1634.6	1541.3	1518.9	1511.4	1455.4	1347.2	1339.7
47.5°	6344.2	5937.4	3541.6	1810.0	1462.9	1380.8	1350.9	1321.1	1216.6	1104.6	1082.2
50°	7329.4	6668.9	3608.7	1660.7	1317.4	1261.4	1224.1	1153.2	1037.5	951.6	929.2
52.5°	8463.9	7538.4	3672.2	1503.9	1209.1	1171.8	1127.0	1041.2	918.0	865.8	858.3
55°	9766.3	8508.7	3799.1	1365.9	1115.8	1089.7	1048.7	966.6	873.3	835.9	832.2
57.5°	11098.6	9594.7	3978.2	1242.7	1026.3	1011.3	1011.3	940.4	880.7	865.8	865.8
60°	12382.4	10527.6	3840.1	1127.0	944.2	951.6	1022.5	1003.9	959.1	977.8	988.9
62.5°	13378.8	11076.2	3116.1	1033.7	884.5	951.6	1134.5	1134.5	1082.2	1074.8	1074.8
65°	13804.2	11068.8	2190.6	962.8	862.1	1044.9	1265.1	1205.4	1067.3	1015.1	1003.9
67.5°	13696.0	10583.6	1511.4	914.3	854.6	1142.0	1324.8	1156.9	1000.1	955.4	921.8
70°	12744.4	9557.4	1164.3	869.5	843.4	1100.9	1306.2	1100.9	947.9	906.8	877.0
72.5°	10281.3	7665.3	966.6	824.7	798.6	1018.8	1242.7	1048.7	906.8	862.1	832.2
75°	6556.9	4821.6	817.3	765.0	712.8	914.3	1156.9	996.4	862.1	802.4	780.0
77.5°	3153.4	2078.7	712.8	694.1	641.9	847.1	1071.1	929.2	802.4	753.8	738.9
80°	1276.3	951.6	619.5	623.2	589.6	806.1	1011.3	865.8	742.6	690.4	664.3
82.5°	664.3	552.3	522.5	537.4	537.4	768.8	966.6	813.6	690.4	668.0	582.2
85°	358.3	343.3	403.0	432.9	466.5	694.1	899.4	757.6	630.7	541.1	522.5
87.5°	175.4	223.9	227.6	261.2	324.7	556.1	757.6	634.4	526.2	436.6	429.2
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)