

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: P400216

Luminaire Tested: **ARCH-L-PA3-250-730-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400216
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-PA3-250-730-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1070mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30433 lumens
Efficiency: N/A
Efficacy: 121.2 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

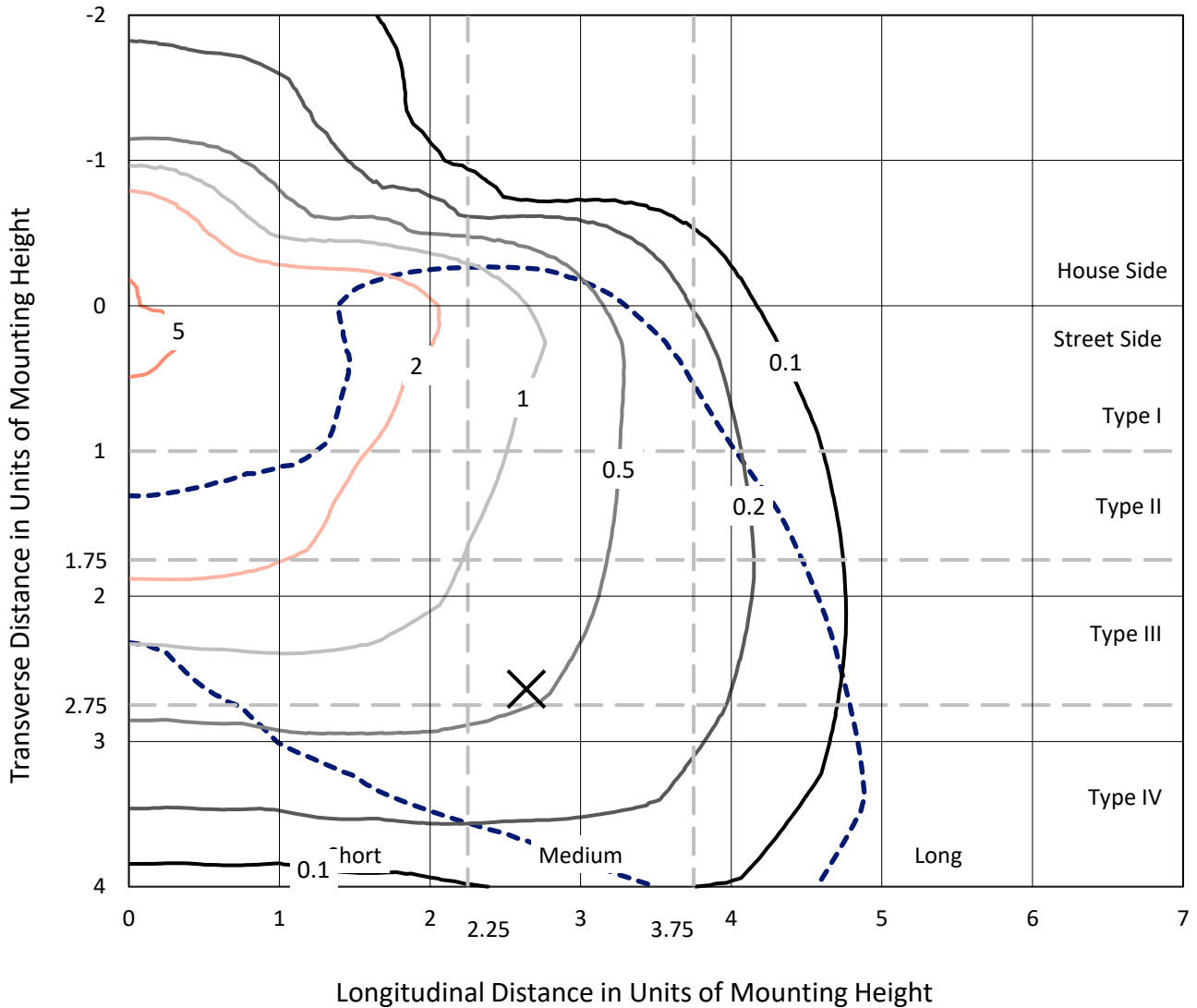
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

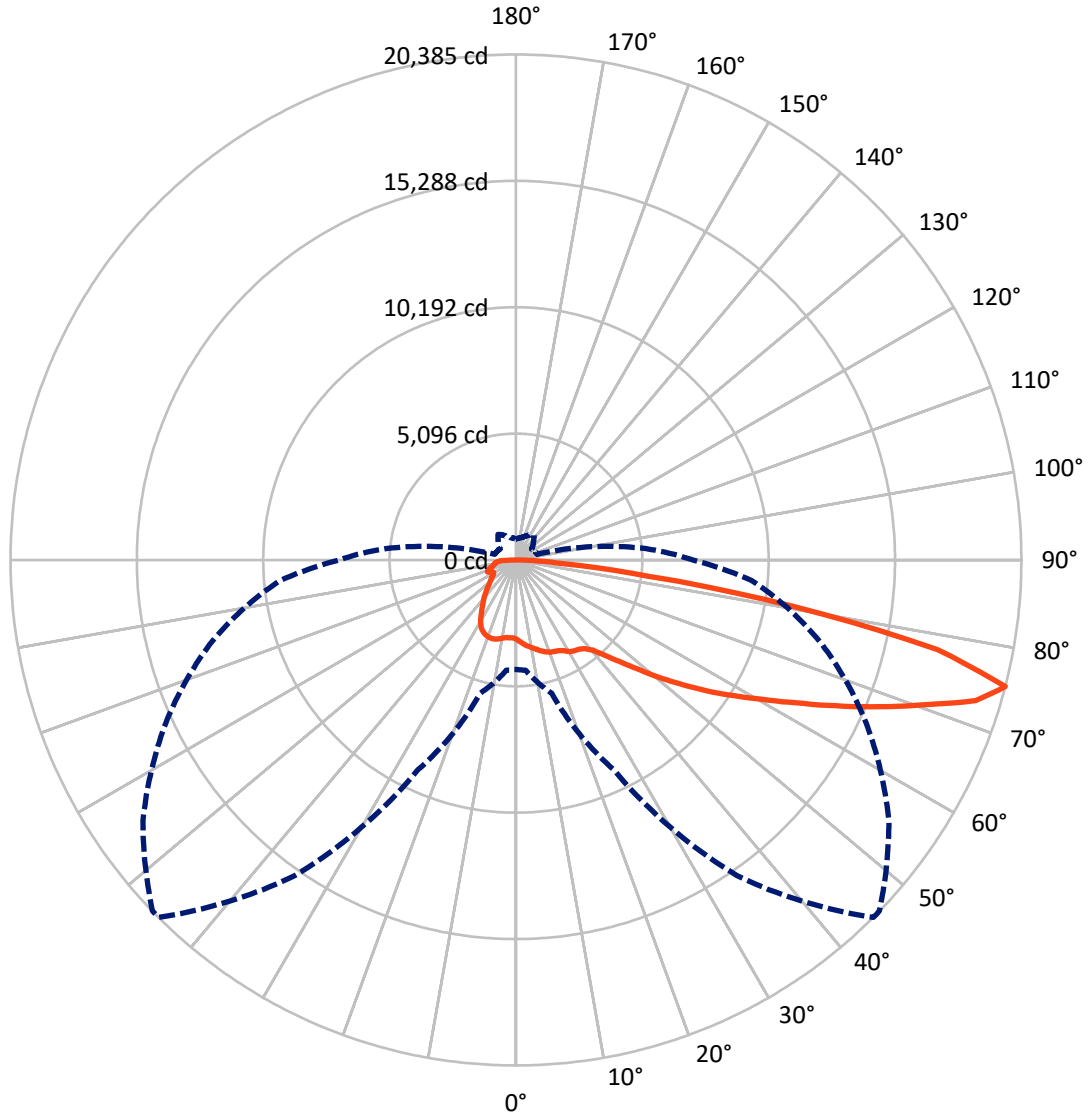
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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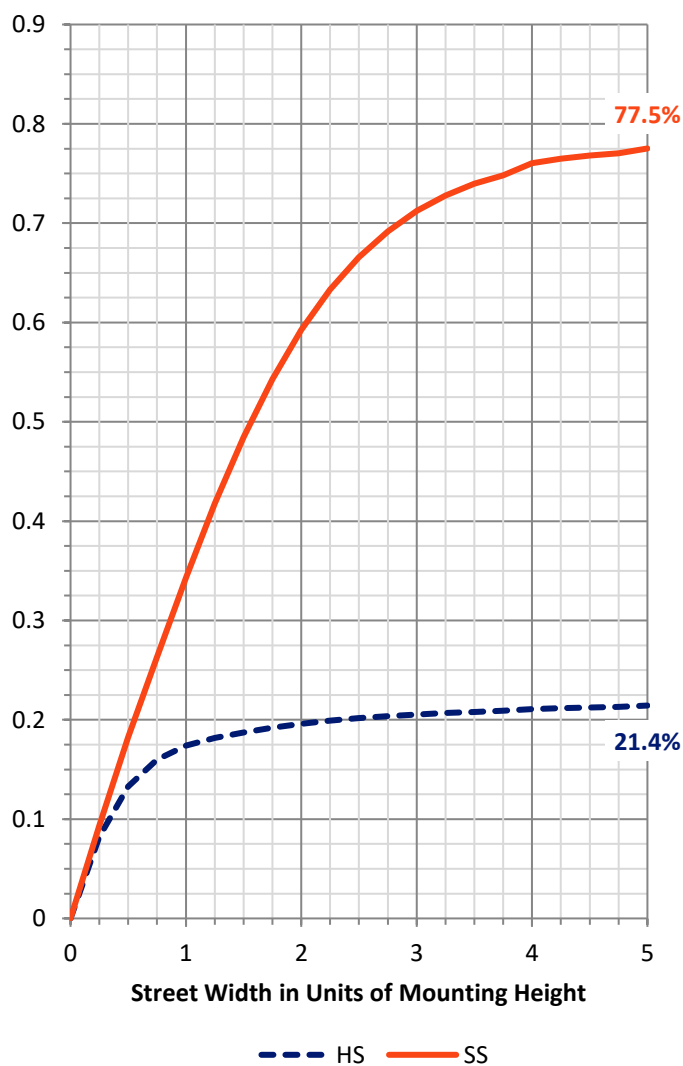
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6725.6	0.0	6725.6
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	23707.5	0.0	23707.5
	% Fixture	77.9	0.0	77.9
Total	Lumens	30433.0	0.0	30433.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.2	1.0
10°-20°	1005.9	3.3
20°-30°	1714.9	5.6
30°-40°	2402.8	7.9
40°-50°	3530.1	11.6
50°-60°	5618.2	18.5
60°-70°	7991.9	26.3
70°-80°	6691.6	22.0
80°-90°	1161.3	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°	30433.0	100.0
0°-180°	30433.0	100.0

Coefficient of Utilization

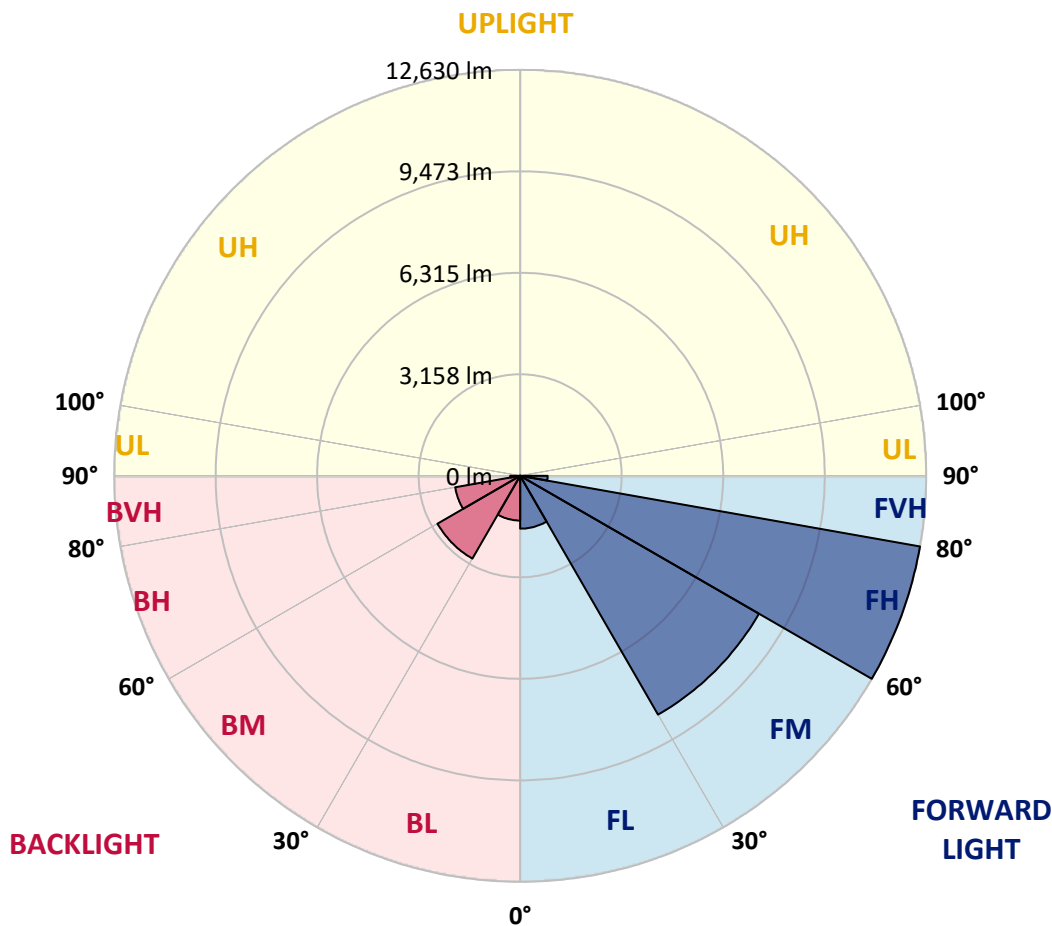


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1645.1	5.4			
FM (30°-60°)	8578.1	28.2			
FH (60°-80°)	12630.5	41.5			G5
FVH (80°-90°)	853.8	2.8			G5
BL (0°-30°)	1391.9	4.6	B3/2500		
BM (30°-60°)	2973.0	9.8	B3/5000		
BH (60°-80°)	2053.1	6.7	B3/2500		G3/2500
BVH (80°-90°)	307.6	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°	3196.1	3196.1	3196.1	3196.1	3196.1	3196.1	3196.1	3196.1	3196.1	3196.1	3196.1
2.5°	3379.1	3362.9	3354.7	3354.7	3322.2	3301.9	3297.8	3269.3	3244.9	3220.5	3200.2
5°	3574.3	3562.1	3537.7	3517.4	3472.6	3415.7	3407.6	3346.6	3285.6	3228.7	3179.9
7.5°	3753.2	3728.8	3700.4	3659.7	3586.5	3509.2	3497.0	3411.6	3326.3	3240.9	3175.8
10°	3903.7	3879.3	3838.6	3781.7	3688.2	3594.6	3582.4	3493.0	3403.5	3301.9	3208.3
12.5°	4046.0	4025.7	3964.7	3887.4	3777.6	3692.2	3680.0	3602.8	3509.2	3395.4	3273.4
15°	4168.0	4147.7	4082.6	3993.1	3867.1	3802.0	3785.7	3712.6	3619.0	3497.0	3371.0
17.5°	4229.0	4229.0	4159.8	4062.3	3944.3	3895.5	3883.3	3793.9	3708.5	3590.6	3464.5
20°	4249.3	4257.4	4208.6	4090.7	3989.1	3968.7	3956.5	3883.3	3785.7	3671.9	3554.0
22.5°	4261.5	4277.8	4237.1	4102.9	4017.5	4005.3	3997.2	3948.4	3871.1	3761.4	3643.4
25°	4302.2	4302.2	4273.7	4123.3	4054.1	4050.1	4050.1	4021.6	3968.7	3875.2	3757.3
27.5°	4363.2	4359.1	4322.5	4168.0	4135.5	4147.7	4143.6	4139.5	4102.9	4009.4	3883.3
30°	4464.8	4464.8	4424.2	4257.4	4237.1	4290.0	4294.0	4302.2	4245.2	4098.9	3997.2
32.5°	4619.3	4603.1	4562.4	4346.9	4314.4	4363.2	4371.3	4367.2	4318.4	4180.2	4131.4
35°	5095.1	5058.5	4912.1	4546.2	4383.5	4412.0	4416.0	4436.4	4444.5	4334.7	4310.3
37.5°	5928.7	5879.9	5656.3	5017.8	4603.1	4534.0	4529.9	4582.7	4627.5	4529.9	4529.9
40°	6835.5	6794.8	6664.7	5831.1	5009.7	4782.0	4765.7	4814.5	4871.5	4802.3	4822.7
42.5°	7616.2	7648.8	7661.0	6693.2	5619.7	5245.6	5200.8	5131.7	5221.2	5160.2	5241.5
45°	8201.8	8185.5	8409.2	7575.6	6408.5	5827.0	5766.0	5579.0	5692.9	5688.8	5867.7
47.5°	8823.9	8795.5	8889.0	8405.1	7307.2	6538.6	6445.1	6168.6	6339.4	6457.3	6754.2
50°	9413.5	9421.7	9454.2	9059.8	8283.1	7404.8	7286.9	6916.8	7160.8	7408.8	7827.7
52.5°	10182.1	10125.1	10084.5	9824.2	9376.9	8307.5	8230.2	7807.3	8148.9	8441.7	8998.8
55°	10853.0	10816.4	10792.0	10779.8	10291.9	9303.8	9222.4	8783.3	9275.3	9482.7	10304.1
57.5°	11568.7	11548.4	11678.5	11885.9	11690.7	10316.3	10230.9	9808.0	10356.9	10503.3	11719.1
60°	12093.2	12105.4	12463.3	12991.9	12857.7	11414.2	11312.5	10938.4	11410.1	11540.2	13134.2
62.5°	12097.3	12219.3	13048.8	13996.3	14150.8	12678.8	12560.9	12154.2	12491.7	12491.7	14402.9
65°	10942.5	11080.7	12943.1	14244.3	15460.2	14183.3	14069.5	13431.1	13557.1	13386.3	15594.4
67.5°	9791.7	9954.4	11706.9	14264.7	16379.2	15793.6	15659.4	14707.9	14492.4	14061.3	16428.0
70°	9027.2	9141.1	10605.0	14000.4	16932.2	17477.1	17375.4	15919.7	15228.4	14626.6	16253.1
72.5°	7600.0	7559.3	8958.1	12743.9	17241.2	19388.2	19302.8	17237.1	15866.8	14358.2	13862.1
75°	4412.0	4460.8	5558.7	9336.3	15541.5	20384.5	20376.4	18363.5	15586.2	12682.9	9551.8
77.5°	1272.8	1309.4	1825.8	4102.9	9828.3	17387.6	17944.7	16793.9	13174.9	9039.4	4952.8
80°	557.1	585.6	792.9	1366.3	4233.0	11357.2	11845.2	11357.2	7945.6	4147.7	1943.7
82.5°	329.4	349.7	516.4	845.8	2029.1	5404.1	6062.9	5294.4	3427.9	1760.7	805.1
85°	187.1	195.2	296.8	536.8	1276.8	1890.8	2122.6	1988.4	1671.3	1000.3	422.9
87.5°	85.4	89.5	146.4	252.1	715.7	638.4	662.8	878.3	967.8	609.9	211.4
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°	3196.1	3196.1	3196.1	3196.1	3196.1	3196.1	3196.1	3196.1	3196.1	3196.1	3196.1
2.5°	3192.1	3179.9	3155.5	3147.3	3135.1	3139.2	3143.3	3143.3	3147.3	3135.1	3135.1
5°	3159.5	3139.2	3114.8	3114.8	3114.8	3147.3	3175.8	3192.1	3200.2	3200.2	3192.1
7.5°	3147.3	3122.9	3094.5	3102.6	3110.7	3151.4	3204.3	3257.1	3273.4	3273.4	3265.3
10°	3171.7	3147.3	3127.0	3139.2	3159.5	3192.1	3232.7	3281.5	3322.2	3326.3	3322.2
12.5°	3228.7	3200.2	3179.9	3204.3	3228.7	3249.0	3269.3	3289.7	3342.5	3350.7	3350.7
15°	3322.2	3293.7	3269.3	3289.7	3297.8	3297.8	3297.8	3297.8	3350.7	3358.8	3358.8
17.5°	3415.7	3391.3	3366.9	3371.0	3346.6	3314.1	3301.9	3297.8	3326.3	3350.7	3354.7
20°	3505.2	3484.8	3460.4	3419.8	3358.8	3297.8	3277.5	3277.5	3293.7	3330.3	3330.3
22.5°	3602.8	3578.4	3537.7	3444.2	3342.5	3257.1	3236.8	3249.0	3269.3	3318.1	3314.1
25°	3712.6	3680.0	3610.9	3436.0	3289.7	3188.0	3192.1	3228.7	3265.3	3318.1	3318.1
27.5°	3834.5	3789.8	3651.6	3371.0	3171.7	3074.1	3110.7	3196.1	3249.0	3305.9	3314.1
30°	3968.7	3928.1	3684.1	3257.1	2980.6	2891.2	2980.6	3118.9	3200.2	3253.1	3265.3
32.5°	4131.4	4098.9	3712.6	3110.7	2732.6	2655.3	2785.4	2956.2	3086.3	3147.3	3159.5
35°	4334.7	4302.2	3749.2	2944.0	2500.8	2419.5	2537.4	2712.2	2883.0	2960.3	2984.7
37.5°	4599.0	4550.2	3781.7	2765.1	2305.6	2212.1	2269.0	2427.6	2582.1	2687.8	2716.3
40°	4936.5	4859.3	3810.1	2561.8	2134.8	2029.1	2049.4	2126.7	2216.1	2309.7	2346.3
42.5°	5412.3	5257.8	3814.2	2346.3	1960.0	1862.4	1854.2	1878.6	1878.6	1878.6	1890.8
45°	6075.1	5782.3	3822.3	2143.0	1781.1	1679.4	1655.0	1646.9	1585.9	1467.9	1459.8
47.5°	6912.8	6469.5	3858.9	1972.2	1594.0	1504.5	1472.0	1439.5	1325.6	1203.6	1179.2
50°	7986.3	7266.5	3932.1	1809.5	1435.4	1374.4	1333.8	1256.5	1130.4	1036.9	1012.5
52.5°	9222.4	8214.0	4001.3	1638.7	1317.5	1276.8	1228.0	1134.5	1000.3	943.4	935.3
55°	10641.6	9271.2	4139.5	1488.3	1215.8	1187.4	1142.6	1053.2	951.5	910.9	906.8
57.5°	12093.2	10454.5	4334.7	1354.1	1118.2	1102.0	1102.0	1024.7	959.7	943.4	943.4
60°	13492.1	11471.1	4184.2	1228.0	1028.8	1036.9	1114.2	1093.8	1045.0	1065.4	1077.6
62.5°	14577.8	12068.9	3395.4	1126.4	963.7	1036.9	1236.2	1236.2	1179.2	1171.1	1171.1
65°	15041.3	12060.7	2386.9	1049.1	939.3	1138.6	1378.5	1313.4	1163.0	1106.0	1093.8
67.5°	14923.4	11532.1	1646.9	996.2	931.2	1244.3	1443.5	1260.6	1089.8	1041.0	1004.4
70°	13886.5	10413.9	1268.7	947.5	919.0	1199.6	1423.2	1199.6	1032.8	988.1	955.6
72.5°	11202.7	8352.2	1053.2	898.7	870.2	1110.1	1354.1	1142.6	988.1	939.3	906.8
75°	7144.5	5253.7	890.5	833.6	776.7	996.2	1260.6	1085.7	939.3	874.3	849.9
77.5°	3436.0	2264.9	776.7	756.3	699.4	923.1	1167.0	1012.5	874.3	821.4	805.1
80°	1390.7	1036.9	675.0	679.1	642.5	878.3	1102.0	943.4	809.2	752.3	723.8
82.5°	723.8	601.8	569.3	585.6	585.6	837.7	1053.2	886.5	752.3	727.9	634.3
85°	390.4	374.1	439.2	471.7	508.3	756.3	980.0	825.5	687.2	589.6	569.3
87.5°	191.1	244.0	248.0	284.6	353.8	605.9	825.5	691.3	573.4	475.8	467.6
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)