

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: P400468

Luminaire Tested: **ARCH-L-PA3-280-827-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400468
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-PA3-280-827-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 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: 26222 lumens
Efficiency: N/A
Efficacy: 94.0 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

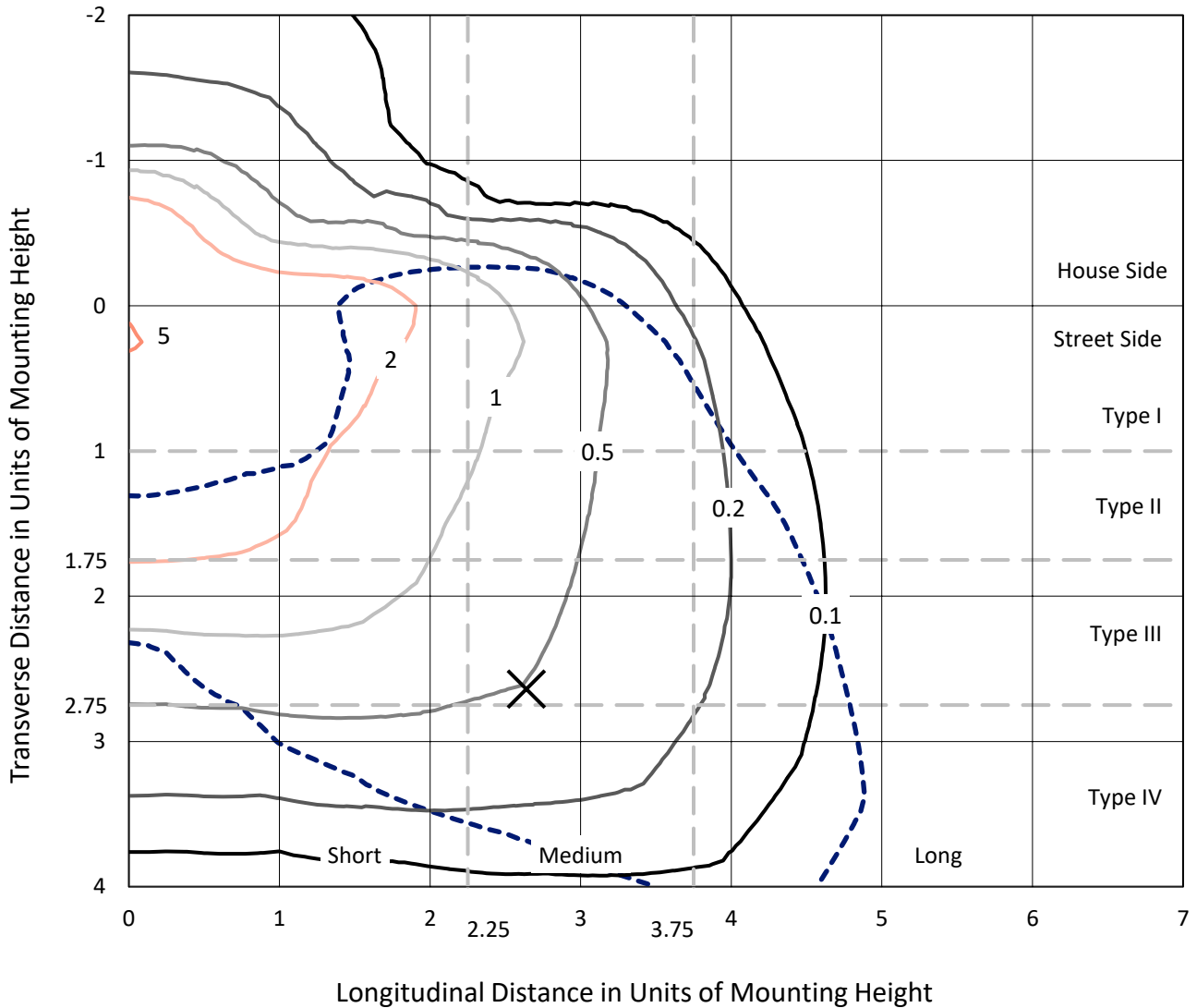
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

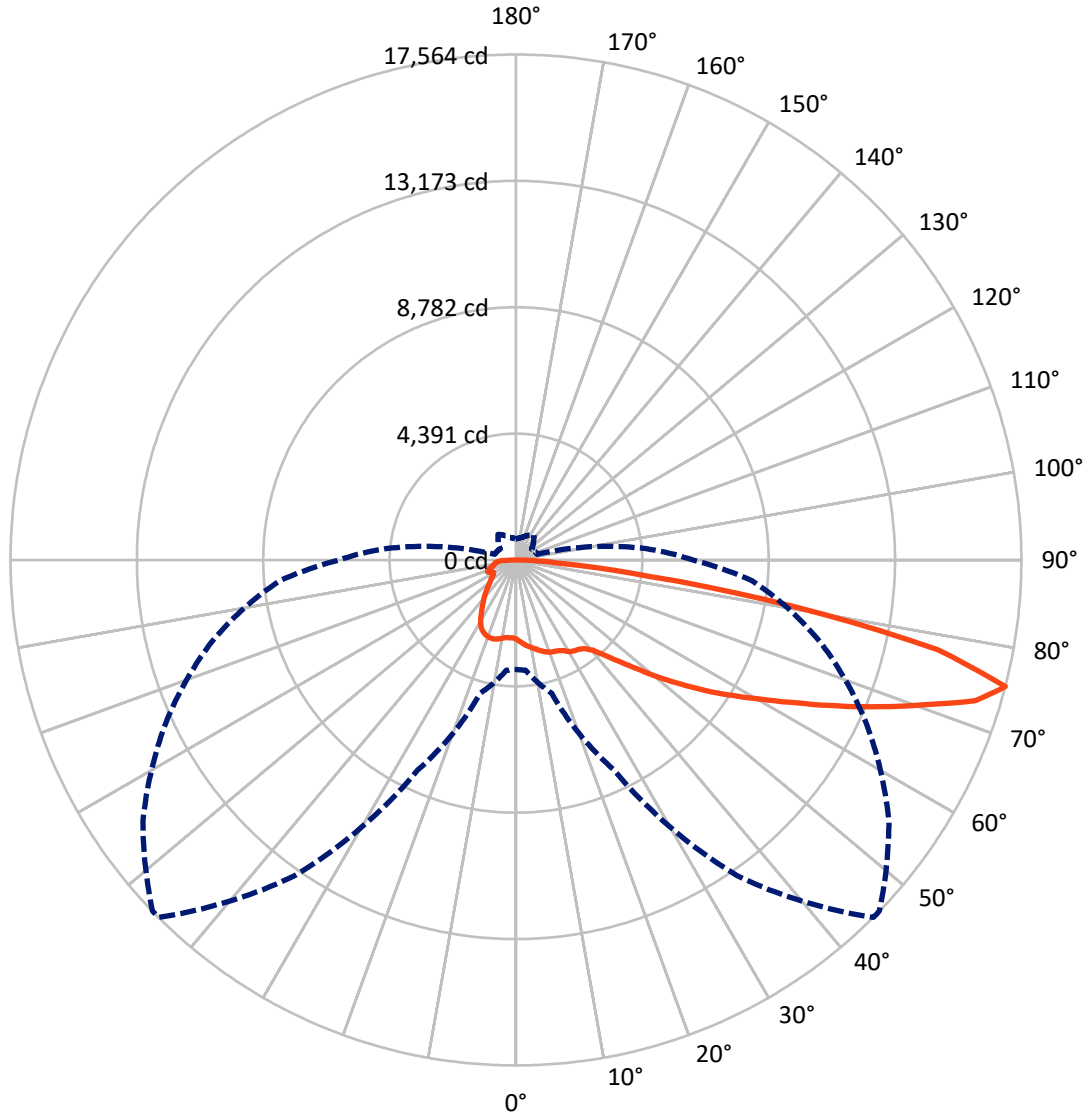
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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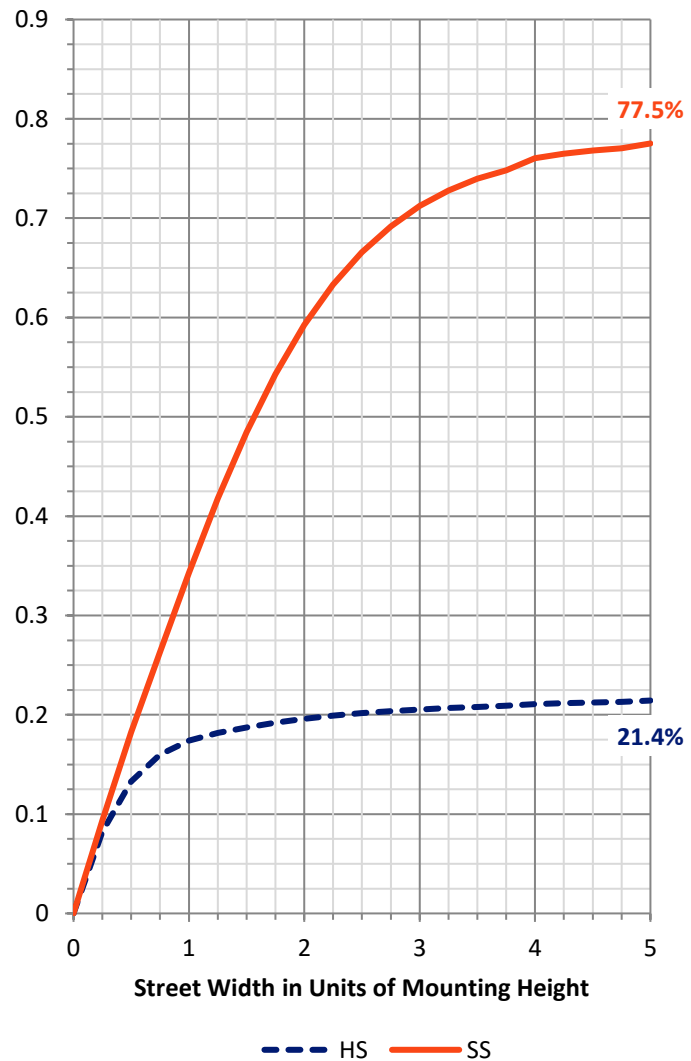
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5794.9	0.0	5794.9
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	20427.1	0.0	20427.1
	% Fixture	77.9	0.0	77.9
Total	Lumens	26222.0	0.0	26222.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.4	1.0
10°-20°	866.7	3.3
20°-30°	1477.6	5.6
30°-40°	2070.4	7.9
40°-50°	3041.6	11.6
50°-60°	4840.8	18.5
60°-70°	6886.1	26.3
70°-80°	5765.7	22.0
80°-90°	1000.6	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°	26222.0	100.0
0°-180°	26222.0	100.0



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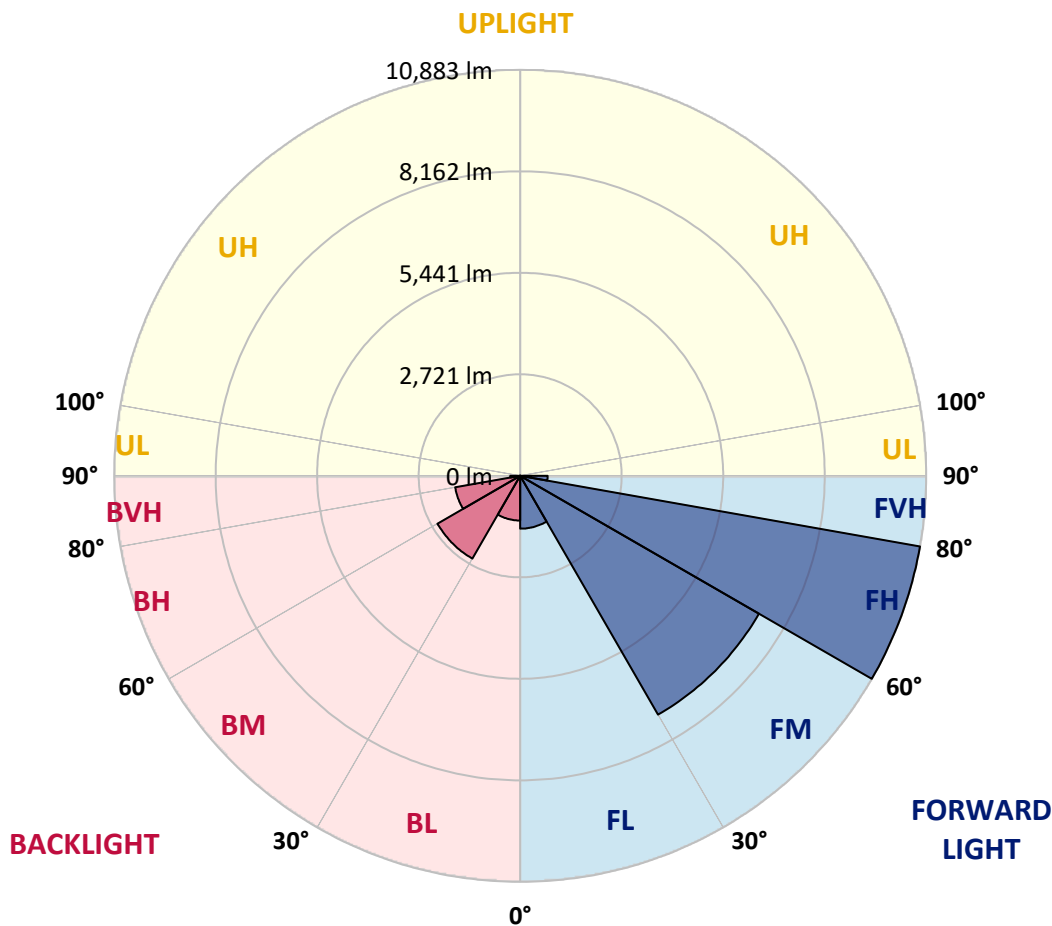
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1417.5	5.4			
FM (30°-60°)	7391.2	28.2			
FH (60°-80°)	10882.8	41.5			G4/12000
FVH (80°-90°)	735.6	2.8			G4/750
BL (0°-30°)	1199.3	4.6	B3/2500		
BM (30°-60°)	2561.6	9.8	B3/5000		
BH (60°-80°)	1769.0	6.7	B3/2500		G3/2500
BVH (80°-90°)	265.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9
2.5°	2911.5	2897.5	2890.5	2890.5	2862.5	2845.0	2841.5	2816.9	2795.9	2774.9	2757.4
5°	3079.7	3069.2	3048.2	3030.7	2992.1	2943.1	2936.1	2883.5	2831.0	2781.9	2739.9
7.5°	3233.9	3212.9	3188.3	3153.3	3090.2	3023.7	3013.2	2939.6	2866.0	2792.4	2736.4
10°	3363.5	3342.5	3307.5	3258.4	3177.8	3097.2	3086.7	3009.7	2932.6	2845.0	2764.4
12.5°	3486.2	3468.6	3416.1	3349.5	3254.9	3181.3	3170.8	3104.3	3023.7	2925.6	2820.5
15°	3591.3	3573.7	3517.7	3440.6	3332.0	3275.9	3261.9	3198.8	3118.3	3013.2	2904.5
17.5°	3643.8	3643.8	3584.3	3500.2	3398.6	3356.5	3346.0	3268.9	3195.3	3093.7	2985.1
20°	3661.3	3668.3	3626.3	3524.7	3437.1	3419.6	3409.1	3346.0	3261.9	3163.8	3062.2
22.5°	3671.8	3685.9	3650.8	3535.2	3461.6	3451.1	3444.1	3402.1	3335.5	3240.9	3139.3
25°	3706.9	3706.9	3682.4	3552.7	3493.2	3489.7	3489.7	3465.1	3419.6	3339.0	3237.4
27.5°	3759.4	3755.9	3724.4	3591.3	3563.2	3573.7	3570.2	3566.7	3535.2	3454.6	3346.0
30°	3847.0	3847.0	3812.0	3668.3	3650.8	3696.4	3699.9	3706.9	3657.8	3531.7	3444.1
32.5°	3980.2	3966.2	3931.1	3745.4	3717.4	3759.4	3766.4	3762.9	3720.9	3601.8	3559.7
35°	4390.1	4358.6	4232.4	3917.1	3777.0	3801.5	3805.0	3822.5	3829.5	3734.9	3713.9
37.5°	5108.3	5066.3	4873.6	4323.5	3966.2	3906.6	3903.1	3948.6	3987.2	3903.1	3903.1
40°	5889.7	5854.6	5742.5	5024.3	4316.5	4120.3	4106.3	4148.3	4197.4	4137.8	4155.4
42.5°	6562.4	6590.4	6600.9	5767.0	4842.1	4519.7	4481.2	4421.6	4498.7	4446.2	4516.2
45°	7066.9	7052.9	7245.6	6527.3	5521.8	5020.8	4968.2	4807.0	4905.1	4901.6	5055.8
47.5°	7603.0	7578.4	7659.0	7242.1	6296.1	5633.9	5553.3	5315.1	5462.2	5563.8	5819.6
50°	8111.0	8118.0	8146.0	7806.2	7137.0	6380.2	6278.6	5959.7	6170.0	6383.7	6744.6
52.5°	8773.2	8724.1	8689.1	8464.9	8079.5	7158.0	7091.4	6727.0	7021.4	7273.6	7753.6
55°	9351.3	9319.8	9298.7	9288.2	8867.8	8016.4	7946.3	7567.9	7991.9	8170.6	8878.3
57.5°	9967.9	9950.4	10062.5	10241.2	10073.0	8888.8	8815.2	8450.8	8923.8	9050.0	10097.6
60°	10419.9	10430.4	10738.7	11194.2	11078.6	9834.8	9747.2	9424.9	9831.3	9943.4	11316.9
62.5°	10423.4	10528.5	11243.3	12059.6	12192.8	10924.4	10822.8	10472.5	10763.3	10763.3	12410.0
65°	9428.4	9547.5	11152.2	12273.4	13320.9	12220.8	12122.7	11572.6	11681.2	11534.1	13436.6
67.5°	8436.8	8577.0	10087.1	12290.9	14112.8	13608.3	13492.6	12672.8	12487.1	12115.7	14154.8
70°	7778.1	7876.2	9137.6	12063.1	14589.3	15058.8	14971.2	13716.9	13121.2	12602.7	14004.2
72.5°	6548.4	6513.3	7718.6	10980.5	14855.6	16705.5	16631.9	14852.1	13671.3	12371.5	11944.0
75°	3801.5	3843.5	4789.5	8044.4	13391.0	17563.9	17556.9	15822.6	13429.6	10927.9	8230.1
77.5°	1096.6	1128.2	1573.1	3535.2	8468.4	14981.7	15461.7	14470.2	11351.9	7788.7	4267.5
80°	480.0	504.5	683.2	1177.2	3647.3	9785.7	10206.2	9785.7	6846.2	3573.7	1674.8
82.5°	283.8	301.3	445.0	728.8	1748.3	4656.4	5224.0	4561.8	2953.6	1517.1	693.7
85°	161.2	168.2	255.8	462.5	1100.2	1629.2	1828.9	1713.3	1440.0	861.9	364.4
87.5°	73.6	77.1	126.1	217.2	616.6	550.1	571.1	756.8	833.9	525.6	182.2
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°	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9
2.5°	2750.4	2739.9	2718.8	2711.8	2701.3	2704.8	2708.3	2708.3	2711.8	2701.3	2701.3
5°	2722.4	2704.8	2683.8	2683.8	2683.8	2711.8	2736.4	2750.4	2757.4	2757.4	2750.4
7.5°	2711.8	2690.8	2666.3	2673.3	2680.3	2715.3	2760.9	2806.4	2820.5	2820.5	2813.4
10°	2732.9	2711.8	2694.3	2704.8	2722.4	2750.4	2785.4	2827.5	2862.5	2866.0	2862.5
12.5°	2781.9	2757.4	2739.9	2760.9	2781.9	2799.4	2816.9	2834.5	2880.0	2887.0	2887.0
15°	2862.5	2838.0	2816.9	2834.5	2841.5	2841.5	2841.5	2841.5	2887.0	2894.0	2894.0
17.5°	2943.1	2922.1	2901.0	2904.5	2883.5	2855.5	2845.0	2841.5	2866.0	2887.0	2890.5
20°	3020.2	3002.6	2981.6	2946.6	2894.0	2841.5	2824.0	2824.0	2838.0	2869.5	2869.5
22.5°	3104.3	3083.2	3048.2	2967.6	2880.0	2806.4	2788.9	2799.4	2816.9	2859.0	2855.5
25°	3198.8	3170.8	3111.3	2960.6	2834.5	2746.9	2750.4	2781.9	2813.4	2859.0	2859.0
27.5°	3304.0	3265.4	3146.3	2904.5	2732.9	2648.8	2680.3	2753.9	2799.4	2848.5	2855.5
30°	3419.6	3384.5	3174.3	2806.4	2568.2	2491.1	2568.2	2687.3	2757.4	2802.9	2813.4
32.5°	3559.7	3531.7	3198.8	2680.3	2354.5	2287.9	2400.0	2547.2	2659.3	2711.8	2722.4
35°	3734.9	3706.9	3230.4	2536.7	2154.8	2084.7	2186.3	2336.9	2484.1	2550.7	2571.7
37.5°	3962.6	3920.6	3258.4	2382.5	1986.6	1906.0	1955.0	2091.7	2224.8	2315.9	2340.5
40°	4253.5	4186.9	3282.9	2207.3	1839.4	1748.3	1765.8	1832.4	1909.5	1990.1	2021.6
42.5°	4663.4	4530.2	3286.4	2021.6	1688.8	1604.7	1597.7	1618.7	1618.7	1618.7	1629.2
45°	5234.5	4982.2	3293.4	1846.4	1534.6	1447.0	1426.0	1419.0	1366.4	1264.8	1257.8
47.5°	5956.2	5574.3	3325.0	1699.3	1373.4	1296.4	1268.3	1240.3	1142.2	1037.1	1016.1
50°	6881.2	6261.1	3388.0	1559.1	1236.8	1184.2	1149.2	1082.6	974.0	893.4	872.4
52.5°	7946.3	7077.4	3447.6	1412.0	1135.2	1100.2	1058.1	977.5	861.9	812.9	805.8
55°	9169.1	7988.4	3566.7	1282.3	1047.6	1023.1	984.5	907.5	819.9	784.8	781.3
57.5°	10419.9	9007.9	3734.9	1166.7	963.5	949.5	949.5	882.9	826.9	812.9	812.9
60°	11625.2	9883.9	3605.3	1058.1	886.4	893.4	960.0	942.5	900.4	918.0	928.5
62.5°	12560.7	10398.9	2925.6	970.5	830.4	893.4	1065.1	1065.1	1016.1	1009.1	1009.1
65°	12960.1	10391.9	2056.7	903.9	809.3	981.0	1187.7	1131.7	1002.0	953.0	942.5
67.5°	12858.5	9936.4	1419.0	858.4	802.3	1072.1	1243.8	1086.1	939.0	896.9	865.4
70°	11965.0	8972.9	1093.1	816.4	791.8	1033.6	1226.3	1033.6	889.9	851.4	823.4
72.5°	9652.6	7196.5	907.5	774.3	749.8	956.5	1166.7	984.5	851.4	809.3	781.3
75°	6155.9	4526.7	767.3	718.3	669.2	858.4	1086.1	935.5	809.3	753.3	732.3
77.5°	2960.6	1951.5	669.2	651.7	602.6	795.3	1005.6	872.4	753.3	707.7	693.7
80°	1198.3	893.4	581.6	585.1	553.6	756.8	949.5	812.9	697.2	648.2	623.7
82.5°	623.7	518.5	490.5	504.5	504.5	721.8	907.5	763.8	648.2	627.2	546.6
85°	336.4	322.3	378.4	406.4	438.0	651.7	844.4	711.2	592.1	508.0	490.5
87.5°	164.7	210.2	213.7	245.3	304.8	522.0	711.2	595.6	494.0	409.9	402.9
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)