

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: P399582

Luminaire Tested: **ARCH-L-PA3-160-750-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399582
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-PA3-160-750-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 705mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24848 lumens
Efficiency: N/A
Efficacy: 153.4 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

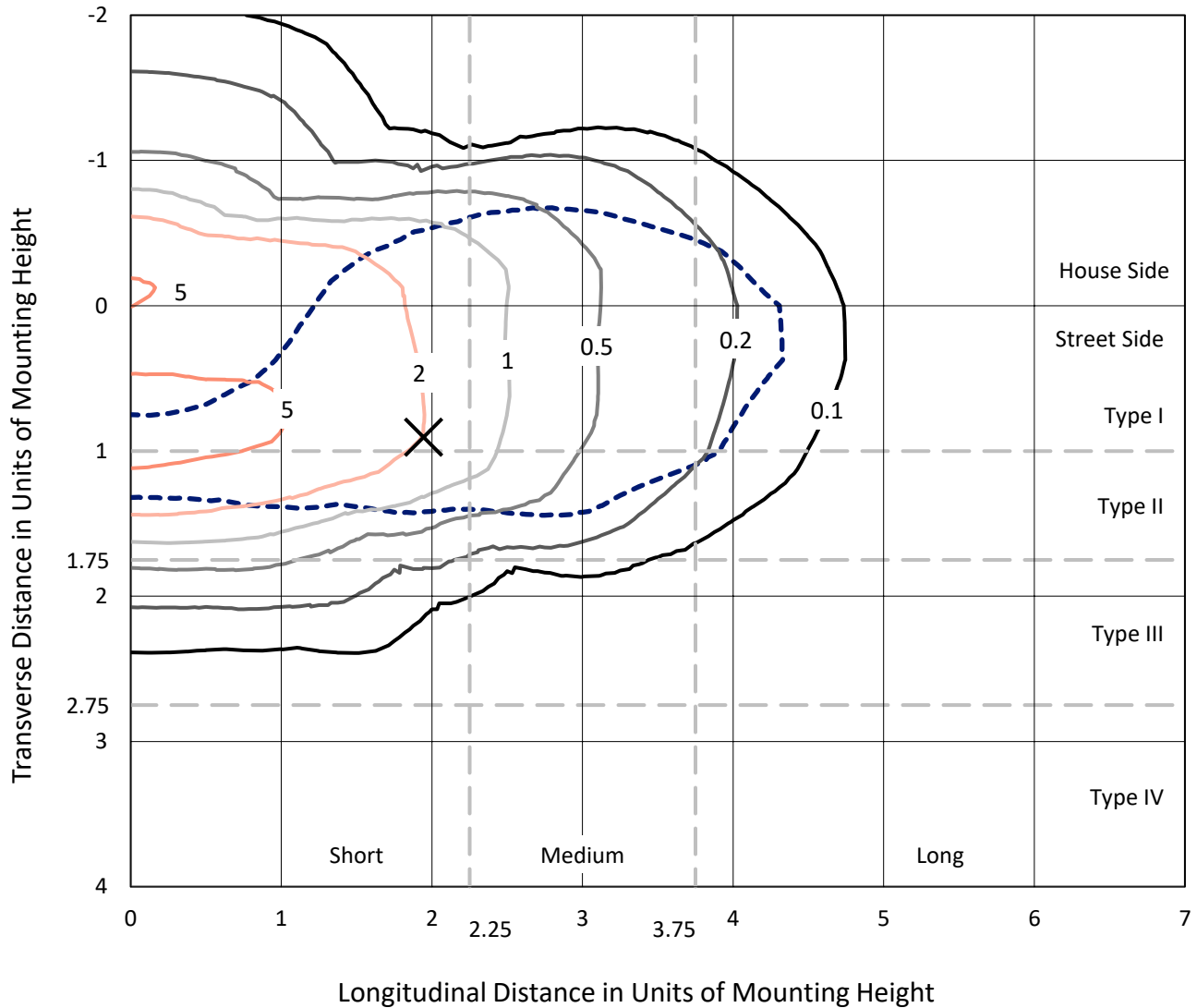
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

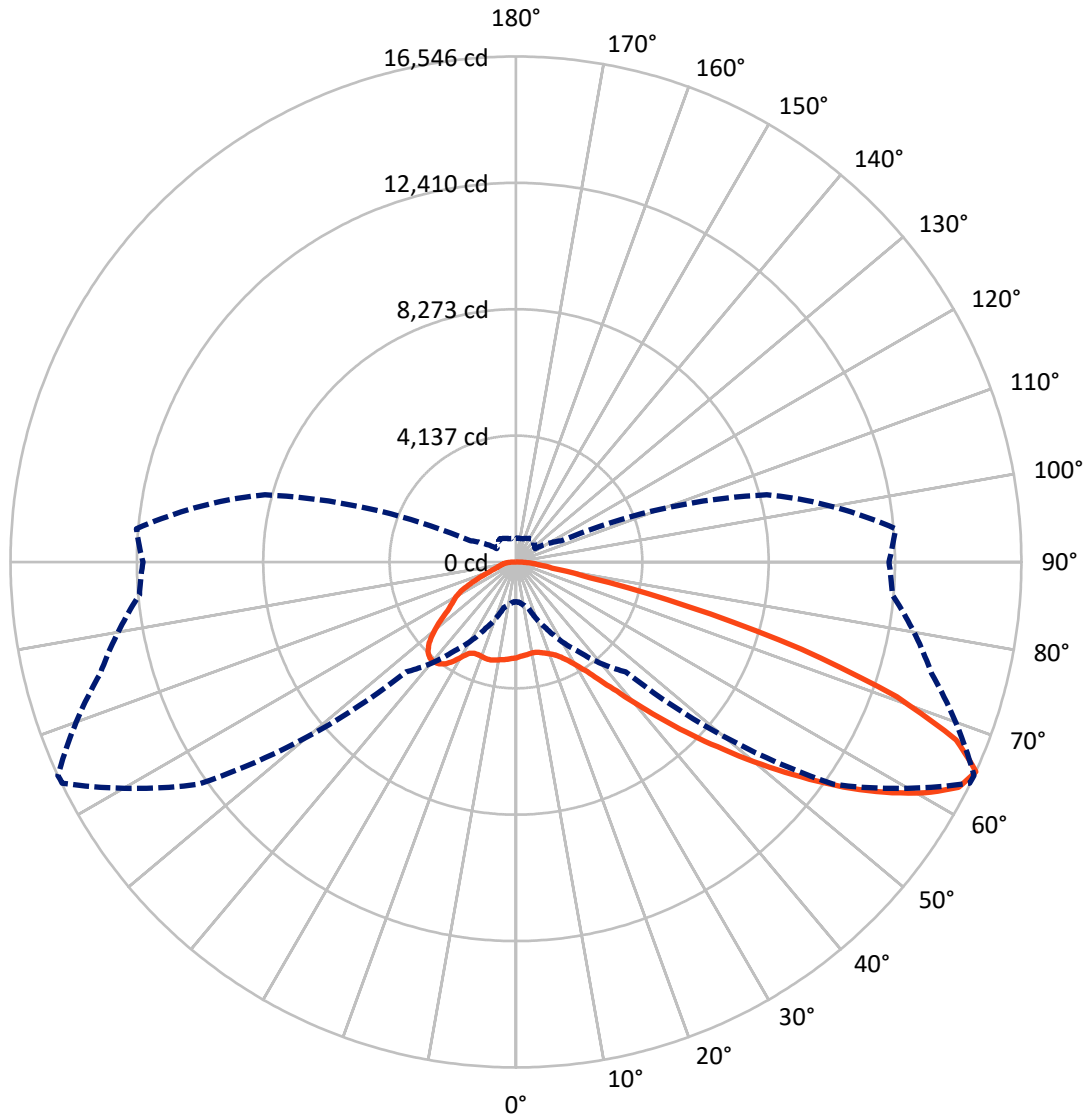
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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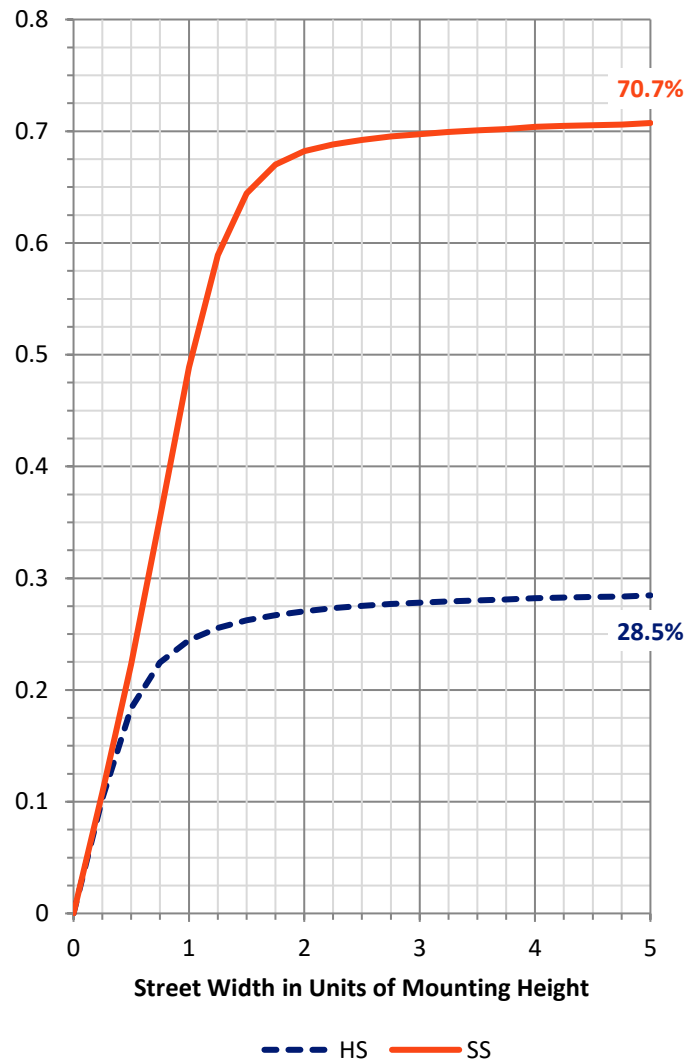
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7183.9	0.0	7183.9
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	17664.1	0.0	17664.1
	% Fixture	71.1	0.0	71.1
Total	Lumens	24848.0	0.0	24848.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.1	1.2
10°-20°	893.1	3.6
20°-30°	1586.4	6.4
30°-40°	2683.8	10.8
40°-50°	4671.9	18.8
50°-60°	6037.6	24.3
60°-70°	5283.2	21.3
70°-80°	2873.7	11.6
80°-90°	519.2	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°	24848.0	100.0
0°-180°	24848.0	100.0



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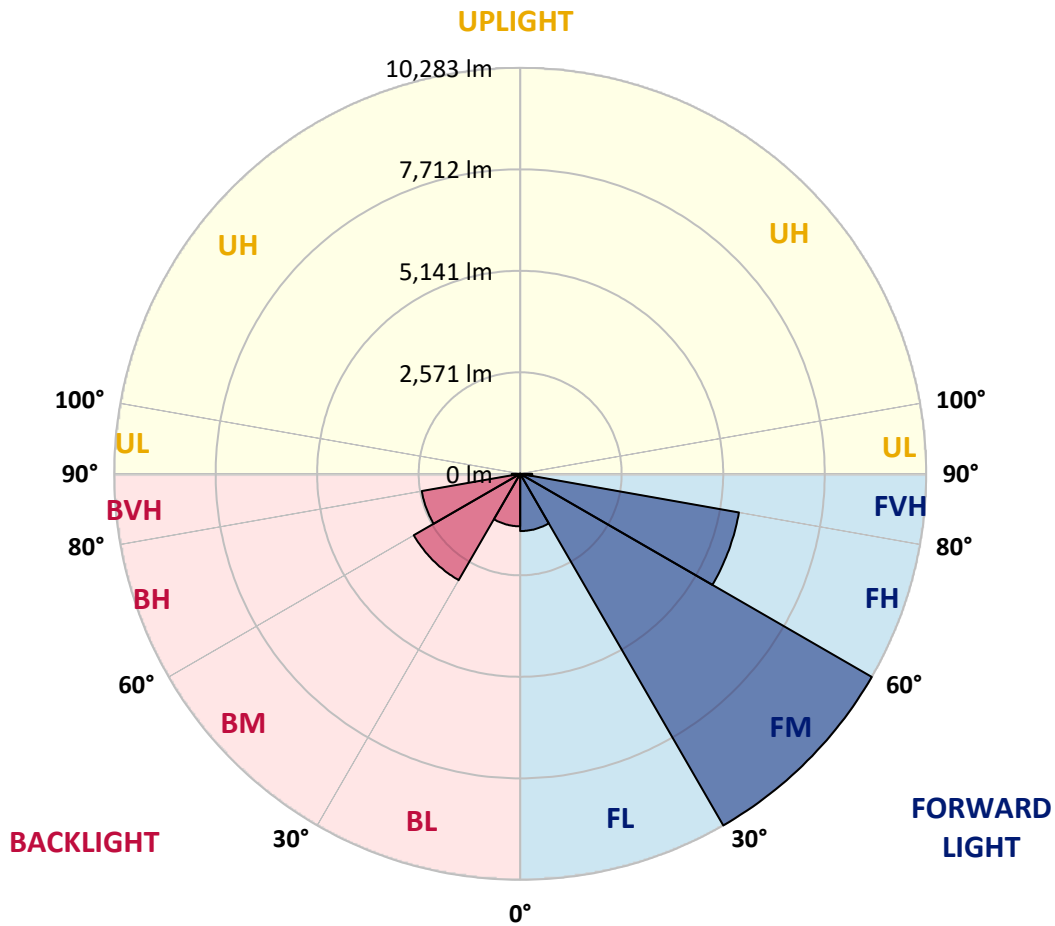
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1449.8	5.8			
FM (30°-60°)	10282.8	41.4			
FH (60°-80°)	5625.9	22.6			G3/7500
FVH (80°-90°)	305.5	1.2			G3/500
BL (0°-30°)	1328.8	5.3	B3/2500		
BM (30°-60°)	3110.5	12.5	B3/5000		
BH (60°-80°)	2531.0	10.2	B4/5000		G4/5000
BVH (80°-90°)	213.7	0.9			G2/225
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°	3139.8	3139.8	3139.8	3139.8	3139.8	3139.8	3139.8	3139.8	3139.8	3139.8	3139.8
2.5°	3084.2	3080.9	3074.4	3080.9	3084.2	3090.7	3087.5	3094.0	3090.7	3100.5	3116.9
5°	3005.7	2999.1	2995.9	3012.2	3022.0	3038.4	3044.9	3067.8	3064.6	3080.9	3107.1
7.5°	2917.4	2917.4	2914.1	2933.7	2946.8	2976.3	2999.1	3038.4	3041.7	3071.1	3100.5
10°	2848.7	2852.0	2848.7	2865.1	2884.7	2920.7	2959.9	3015.5	3018.8	3061.3	3090.7
12.5°	2822.5	2822.5	2822.5	2845.4	2871.6	2920.7	2966.4	3025.3	3031.9	3077.6	3103.8
15°	2858.5	2861.8	2855.2	2878.1	2907.6	2966.4	3009.0	3071.1	3077.6	3120.2	3136.5
17.5°	2986.1	2999.1	2982.8	2995.9	2989.3	3035.1	3074.4	3136.5	3139.8	3175.8	3182.3
20°	3237.9	3251.0	3224.8	3208.5	3149.6	3146.3	3162.7	3211.7	3211.7	3234.6	3218.3
22.5°	3627.1	3640.2	3594.4	3532.3	3391.6	3322.9	3287.0	3309.9	3306.6	3316.4	3273.9
25°	4143.9	4140.6	4085.0	3970.5	3744.8	3578.0	3489.7	3453.8	3453.8	3434.1	3381.8
27.5°	4784.9	4735.8	4637.7	4500.4	4186.4	3954.2	3764.5	3672.9	3656.5	3597.7	3499.6
30°	5468.5	5432.5	5291.8	5092.3	4729.3	4431.7	4117.7	3934.5	3924.7	3797.2	3650.0
32.5°	6273.0	6214.2	6057.2	5818.4	5383.4	4964.8	4572.3	4294.3	4278.0	4075.2	3872.4
35°	7306.5	7257.5	6953.3	6714.6	6155.3	5605.8	5141.4	4771.8	4758.7	4510.2	4251.8
37.5°	8546.1	8418.5	8124.2	7676.1	7087.4	6436.6	5847.8	5383.4	5367.1	5092.3	4765.3
40°	9651.6	9537.1	9275.4	8863.3	8232.1	7509.3	6711.3	6148.7	6132.4	5798.8	5386.7
42.5°	10469.2	10390.7	10220.7	9981.9	9530.6	9092.3	8135.5	7074.3	7044.9	6613.2	6099.7
45°	10943.5	10881.3	10783.2	10842.1	10835.5	10753.8	9128.3	8176.5	8081.7	7522.4	6894.4
47.5°	10829.0	10773.4	10812.6	11270.5	11901.7	12376.0	10658.9	9304.9	9177.3	8448.0	7741.5
50°	10001.5	10024.4	10230.5	11107.0	12523.2	13576.3	12356.4	10590.2	10420.2	9380.1	8546.1
52.5°	8493.8	8549.4	9049.8	10276.3	12454.5	14354.7	13890.3	11918.1	11692.4	10289.3	9278.7
55°	6747.3	6887.9	7535.5	8824.1	11558.3	14410.3	15048.1	13252.5	13003.9	11143.0	9916.5
57.5°	4990.9	5200.3	5949.2	7133.2	9841.3	13530.5	15627.0	14528.0	14227.1	11990.1	10590.2
60°	3165.9	3293.5	4156.9	5553.5	7532.2	11378.4	15551.7	15613.9	15352.2	12833.9	11293.4
62.5°	2021.2	2083.4	2518.4	3960.7	5265.7	8425.1	14730.8	16434.8	16258.2	13602.5	11960.6
65°	1298.4	1324.6	1547.0	2436.6	3584.6	5085.8	12686.7	16523.1	16546.0	14083.2	12372.7
67.5°	1056.4	1069.5	1151.3	1504.5	2534.7	2809.5	8837.2	15267.2	15545.2	13959.0	12232.1
70°	961.6	977.9	1062.9	1200.3	1962.4	1939.5	4278.0	12775.0	13229.6	13242.7	11607.4
72.5°	811.1	834.0	948.5	1134.9	1517.6	1530.6	1811.9	9098.8	9769.3	11836.3	10668.7
75°	677.0	690.1	788.2	1000.8	1285.3	1223.2	1272.3	4824.1	5792.2	9491.3	9671.2
77.5°	549.5	562.5	634.5	798.0	1141.4	951.7	1000.8	1998.3	2469.3	6443.1	7905.1
80°	392.5	405.6	487.3	621.4	863.4	856.9	742.4	1102.2	1197.0	3483.2	5134.9
82.5°	281.3	291.1	369.6	444.8	598.5	860.2	559.3	749.0	784.9	1543.7	2070.3
85°	189.7	189.7	255.1	294.4	385.9	542.9	451.3	506.9	529.8	732.6	559.3
87.5°	81.8	81.8	137.4	150.4	202.8	251.8	336.9	255.1	261.6	395.7	228.9
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°	3139.8	3139.8	3139.8	3139.8	3139.8	3139.8	3139.8	3139.8	3139.8	3139.8	3139.8
2.5°	3126.7	3130.0	3136.5	3156.1	3169.2	3188.8	3198.7	3211.7	3211.7	3205.2	3208.5
5°	3120.2	3130.0	3152.9	3188.8	3211.7	3247.7	3273.9	3293.5	3300.0	3293.5	3296.8
7.5°	3116.9	3133.2	3172.5	3224.8	3257.5	3303.3	3339.3	3362.2	3378.5	3372.0	3375.3
10°	3107.1	3133.2	3182.3	3247.7	3296.8	3342.6	3375.3	3385.1	3394.9	3388.4	3385.1
12.5°	3120.2	3149.6	3201.9	3280.4	3336.0	3372.0	3381.8	3365.5	3342.6	3329.5	3326.2
15°	3146.3	3175.8	3228.1	3309.9	3358.9	3372.0	3349.1	3296.8	3244.4	3215.0	3211.7
17.5°	3182.3	3201.9	3244.4	3316.4	3355.6	3339.3	3293.5	3231.4	3192.1	3169.2	3172.5
20°	3205.2	3205.2	3237.9	3293.5	3326.2	3313.1	3257.5	3188.8	3126.7	3097.3	3087.5
22.5°	3237.9	3221.5	3224.8	3273.9	3319.7	3300.0	3182.3	3061.3	2973.0	2940.3	2937.0
25°	3326.2	3280.4	3251.0	3280.4	3388.4	3228.1	2992.6	2852.0	2770.2	2740.8	2744.0
27.5°	3434.1	3372.0	3309.9	3358.9	3444.0	3064.6	2750.6	2590.3	2541.3	2518.4	2528.2
30°	3542.1	3460.3	3378.5	3555.2	3404.7	2809.5	2439.9	2282.9	2240.4	2224.0	2237.1
32.5°	3741.6	3607.5	3509.4	3816.8	3283.7	2518.4	2103.0	1959.1	1919.8	1900.2	1893.7
35°	4075.2	3905.1	3807.0	4045.7	3113.6	2194.6	1795.6	1694.2	1651.7	1609.1	1602.6
37.5°	4556.0	4349.9	4261.6	4176.6	2874.9	1874.1	1560.1	1491.4	1429.3	1363.8	1360.6
40°	5131.6	4863.4	4798.0	4235.4	2544.5	1573.2	1396.5	1331.1	1252.6	1190.5	1193.8
42.5°	5795.5	5452.1	5311.5	4219.1	2135.7	1412.9	1278.8	1206.9	1138.2	1082.6	1079.3
45°	6505.2	6116.0	5792.2	4104.6	1730.2	1301.7	1206.9	1121.8	1053.1	991.0	984.5
47.5°	7290.2	6855.2	6237.1	3882.2	1429.3	1223.2	1164.3	1043.3	981.2	941.9	941.9
50°	8081.7	7561.6	6645.9	3545.3	1252.6	1164.3	1102.2	1000.8	951.7	919.0	919.0
52.5°	8758.7	8297.5	6982.7	3143.1	1141.4	1115.3	1059.7	981.2	928.9	899.4	896.1
55°	9416.1	8981.1	7283.6	2744.0	1049.9	1049.9	1049.9	964.8	906.0	879.8	876.5
57.5°	10070.2	9700.6	7597.6	2482.4	968.1	994.3	1030.2	945.2	886.3	863.4	860.2
60°	10809.4	10564.1	7960.7	2299.2	896.1	935.4	1004.1	922.3	853.6	834.0	830.7
62.5°	11594.3	11594.3	8291.0	2040.9	830.7	886.3	964.8	892.9	824.2	807.8	804.6
65°	12209.2	12474.1	8503.6	1654.9	765.3	837.3	919.0	853.6	784.9	781.7	775.1
67.5°	12281.1	12696.5	8369.5	1249.4	706.5	784.9	873.3	811.1	745.7	745.7	735.9
70°	11764.4	12186.3	7950.8	935.4	663.9	732.6	814.4	758.8	696.6	703.2	686.8
72.5°	10900.9	11005.6	6910.8	739.2	614.9	677.0	742.4	699.9	644.3	644.3	621.4
75°	9762.8	9180.6	5020.4	618.1	556.0	611.6	670.5	634.5	585.4	569.1	556.0
77.5°	7771.0	6652.4	2917.4	533.1	506.9	549.5	588.7	562.5	520.0	484.1	484.1
80°	4735.8	3898.6	1288.6	461.2	448.1	480.8	506.9	477.5	441.5	405.6	395.7
82.5°	1802.1	1504.5	624.7	395.7	392.5	412.1	431.7	402.3	376.1	359.8	310.7
85°	493.9	454.6	428.4	330.3	323.8	320.5	343.4	330.3	294.4	242.0	215.9
87.5°	186.4	212.6	232.2	202.8	215.9	199.5	228.9	209.3	186.4	121.0	107.9
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)