

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: P400248

Luminaire Tested: **ARCH-L-PA3-250-827-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400248
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-PA3-250-827-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 1070mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24593 lumens
Efficiency: N/A
Efficacy: 98.0 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

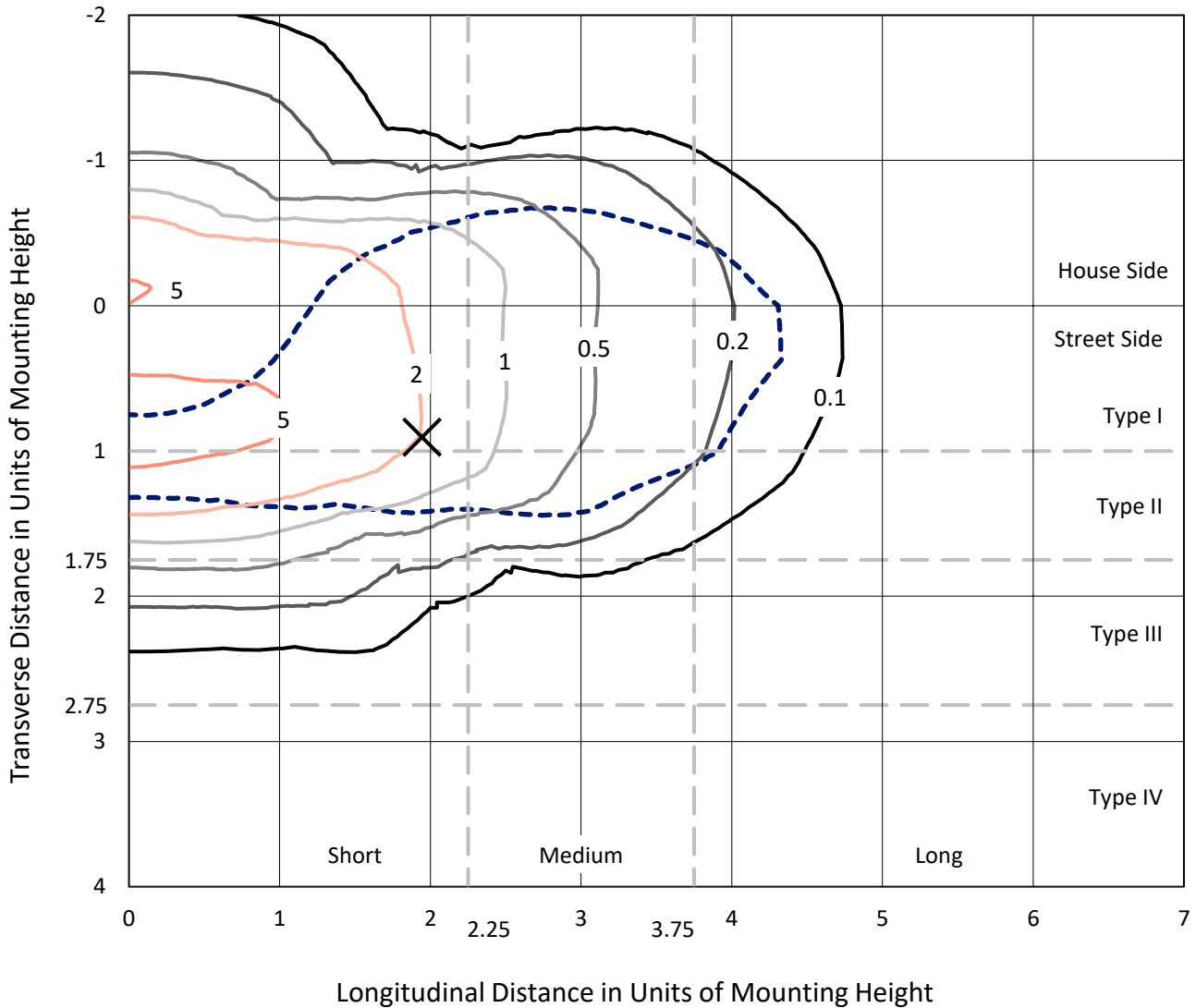
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

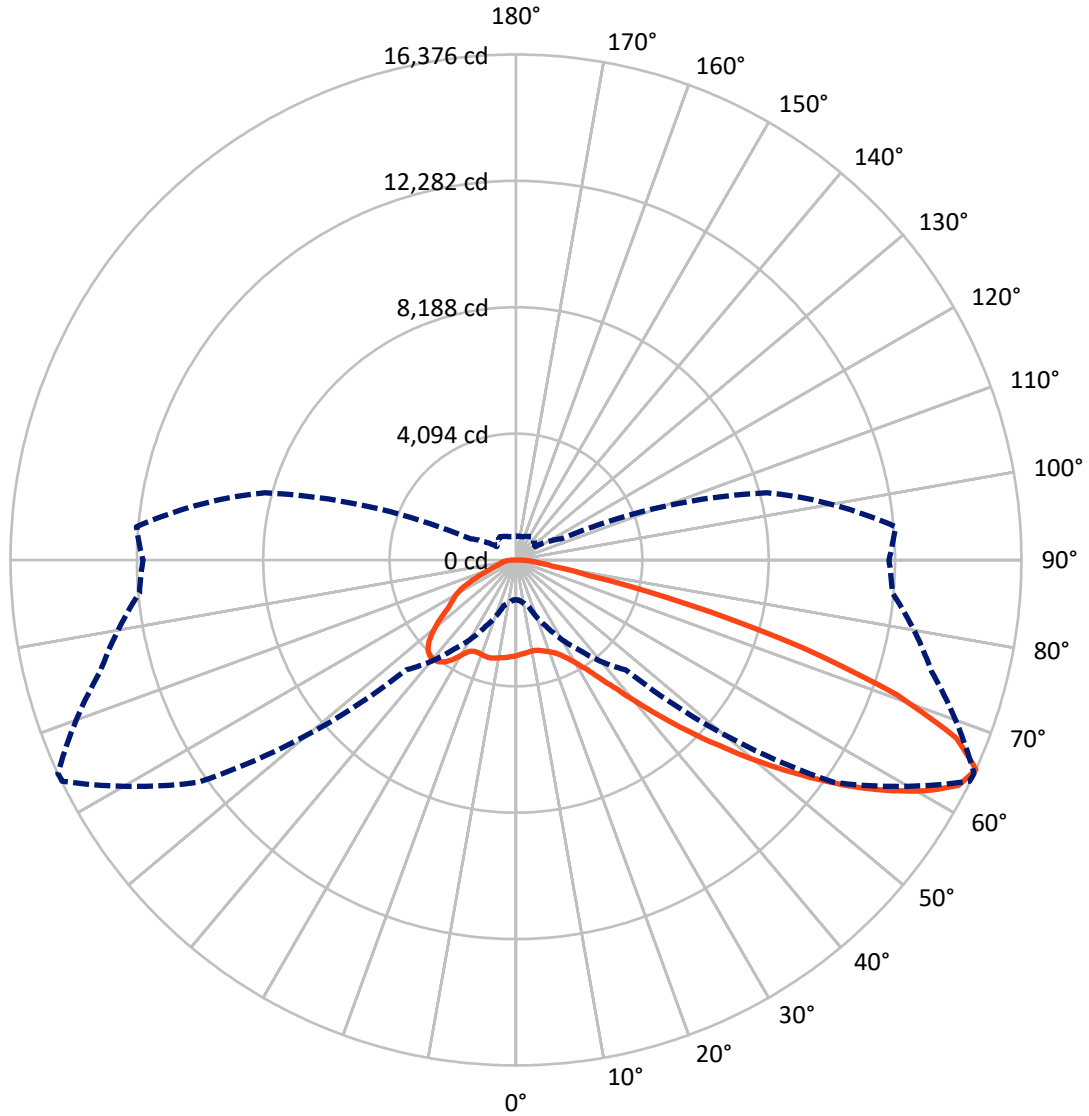
✕ Max cd
 - - - 1/2 Max cd



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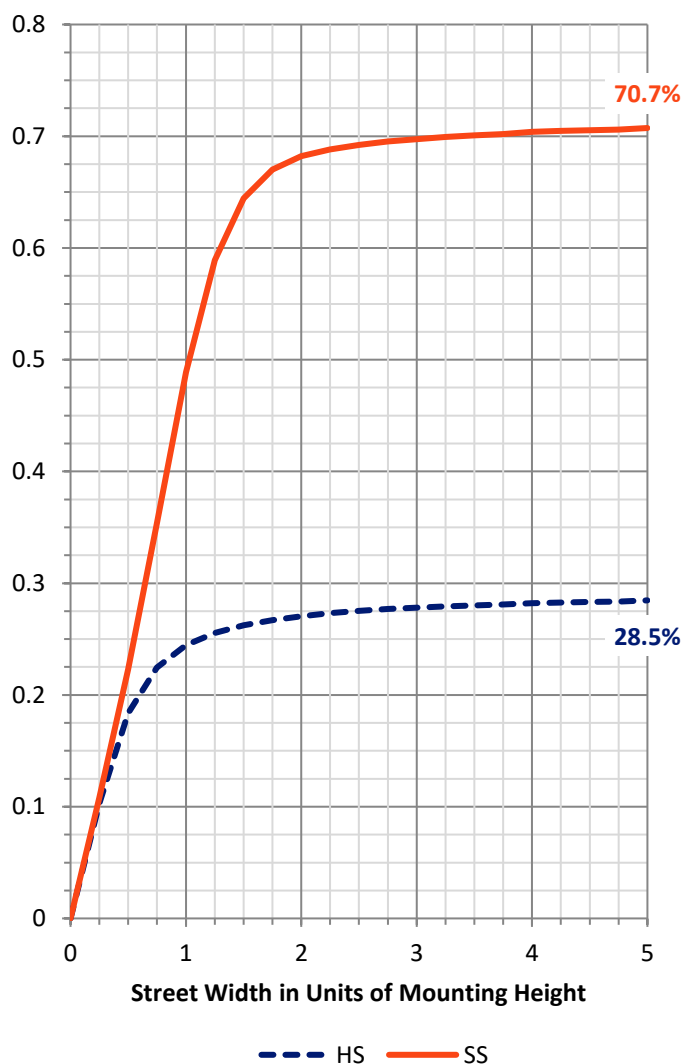
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7110.2	0.0	7110.2
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	17482.8	0.0	17482.8
	% Fixture	71.1	0.0	71.1
Total	Lumens	24593.0	0.0	24593.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.1	1.2
10°-20°	883.9	3.6
20°-30°	1570.1	6.4
30°-40°	2656.2	10.8
40°-50°	4624.0	18.8
50°-60°	5975.6	24.3
60°-70°	5229.0	21.3
70°-80°	2844.2	11.6
80°-90°	513.9	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°	24593.0	100.0
0°-180°	24593.0	100.0

Coefficient of Utilization



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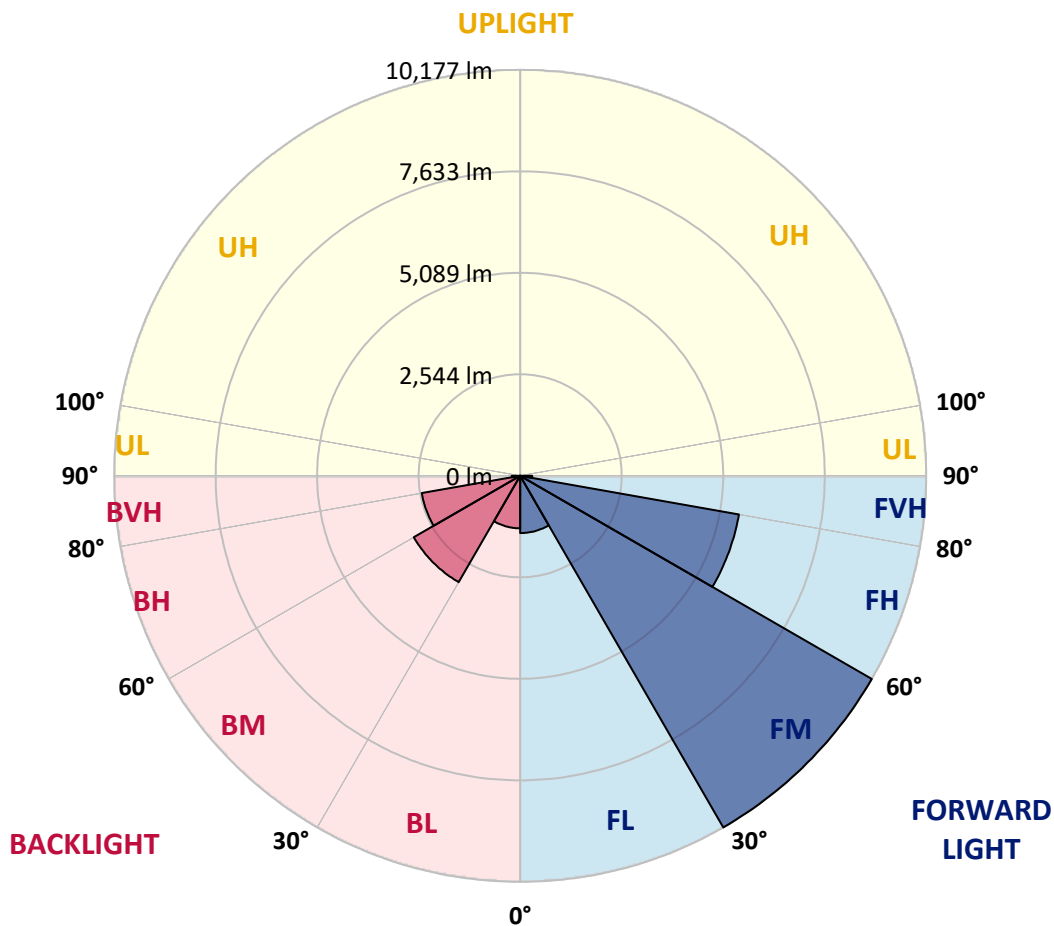
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1434.9	5.8			
FM (30°-60°)	10177.3	41.4			
FH (60°-80°)	5568.2	22.6			G3/7500
FVH (80°-90°)	302.4	1.2			G3/500
BL (0°-30°)	1315.1	5.3	B3/2500		
BM (30°-60°)	3078.6	12.5	B3/5000		
BH (60°-80°)	2505.0	10.2	B4/5000		G4/5000
BVH (80°-90°)	211.5	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°	3107.6	3107.6	3107.6	3107.6	3107.6	3107.6	3107.6	3107.6	3107.6	3107.6	3107.6
2.5°	3052.5	3049.3	3042.8	3049.3	3052.5	3059.0	3055.8	3062.2	3059.0	3068.7	3084.9
5°	2974.8	2968.4	2965.1	2981.3	2991.0	3007.2	3013.7	3036.3	3033.1	3049.3	3075.2
7.5°	2887.4	2887.4	2884.2	2903.6	2916.6	2945.7	2968.4	3007.2	3010.5	3039.6	3068.7
10°	2819.5	2822.7	2819.5	2835.7	2855.1	2890.7	2929.5	2984.6	2987.8	3029.9	3059.0
12.5°	2793.6	2793.6	2793.6	2816.2	2842.1	2890.7	2936.0	2994.3	3000.7	3046.1	3072.0
15°	2829.2	2832.4	2825.9	2848.6	2877.7	2936.0	2978.1	3039.6	3046.1	3088.1	3104.3
17.5°	2955.4	2968.4	2952.2	2965.1	2958.7	3004.0	3042.8	3104.3	3107.6	3143.2	3149.6
20°	3204.7	3217.6	3191.7	3175.5	3117.3	3114.0	3130.2	3178.8	3178.8	3201.4	3185.3
22.5°	3589.9	3602.8	3557.5	3496.0	3356.8	3288.8	3253.2	3275.9	3272.7	3282.4	3240.3
25°	4101.3	4098.1	4043.1	3929.8	3706.4	3541.3	3453.9	3418.3	3418.3	3398.9	3347.1
27.5°	4735.8	4687.2	4590.1	4454.2	4143.4	3913.6	3725.8	3635.2	3619.0	3560.7	3463.6
30°	5412.3	5376.7	5237.5	5040.1	4680.8	4386.2	4075.4	3894.2	3884.5	3758.2	3612.5
32.5°	6208.7	6150.4	5995.0	5758.7	5328.2	4913.8	4525.4	4250.2	4234.1	4033.4	3832.7
35°	7231.6	7183.0	6882.0	6645.7	6092.1	5548.3	5088.6	4722.8	4709.9	4463.9	4208.2
37.5°	8458.4	8332.2	8040.8	7597.3	7014.7	6370.5	5787.8	5328.2	5312.0	5040.1	4716.4
40°	9552.5	9439.2	9180.3	8772.4	8147.6	7432.3	6642.4	6085.6	6069.5	5739.3	5331.4
42.5°	10361.8	10284.1	10115.8	9879.5	9432.7	8999.0	8433.3	7901.7	6972.6	6545.3	6037.1
45°	10831.1	10769.6	10672.5	10730.8	10724.3	10643.4	10346.6	10092.6	7998.7	7445.2	6823.7
47.5°	10717.9	10662.8	10701.7	11154.9	11779.6	12249.0	10549.5	9209.4	9083.1	8361.3	7662.1
50°	9898.9	9921.5	10125.5	10993.0	12394.6	13437.0	12229.6	10481.5	10313.2	9283.8	8458.4
52.5°	8406.6	8461.6	8956.9	10170.8	12326.7	14207.4	13747.7	11795.8	11572.4	10183.7	9183.5
55°	6678.0	6817.2	7458.1	8733.5	11439.7	14262.4	14893.6	13116.5	12870.5	11028.6	9814.7
57.5°	4939.7	5146.9	5888.2	7060.0	9740.3	13391.7	15466.6	14379.0	14081.1	11867.0	10481.5
60°	3133.5	3259.7	4114.3	5496.5	7454.9	11261.7	15392.1	15453.6	15194.7	12702.2	11177.5
62.5°	2000.5	2062.0	2492.5	3920.1	5211.6	8338.6	14579.6	16266.1	16091.3	13462.9	11837.9
65°	1285.1	1311.0	1531.1	2411.6	3547.8	5033.6	12556.5	16353.5	16376.2	13938.7	12245.7
67.5°	1045.6	1058.5	1139.4	1489.0	2508.7	2780.6	8746.5	15110.5	15385.7	13815.7	12106.5
70°	951.7	967.9	1052.0	1188.0	1942.2	1919.6	4234.1	12643.9	13093.8	13106.8	11488.3
72.5°	802.8	825.4	938.7	1123.3	1502.0	1514.9	1793.3	9005.5	9669.1	11714.9	10559.2
75°	670.1	683.0	780.1	990.5	1272.2	1210.7	1259.2	4774.6	5732.8	9393.9	9571.9
77.5°	543.8	556.8	628.0	789.8	1129.7	942.0	990.5	1977.8	2444.0	6377.0	7823.9
80°	388.4	401.4	482.3	615.0	854.6	848.1	734.8	1090.9	1184.8	3447.5	5082.2
82.5°	278.4	288.1	365.8	440.2	592.4	851.3	553.5	741.3	776.9	1527.9	2049.0
85°	187.7	187.7	252.5	291.3	382.0	537.3	446.7	501.7	524.4	725.1	553.5
87.5°	80.9	80.9	136.0	148.9	200.7	249.3	333.4	252.5	259.0	391.7	226.6
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°	3107.6	3107.6	3107.6	3107.6	3107.6	3107.6	3107.6	3107.6	3107.6	3107.6	3107.6
2.5°	3094.6	3097.9	3104.3	3123.7	3136.7	3156.1	3165.8	3178.8	3178.8	3172.3	3175.5
5°	3088.1	3097.9	3120.5	3156.1	3178.8	3214.4	3240.3	3259.7	3266.2	3259.7	3262.9
7.5°	3084.9	3101.1	3139.9	3191.7	3224.1	3269.4	3305.0	3327.7	3343.9	3337.4	3340.6
10°	3075.2	3101.1	3149.6	3214.4	3262.9	3308.3	3340.6	3350.3	3360.1	3353.6	3350.3
12.5°	3088.1	3117.3	3169.1	3246.8	3301.8	3337.4	3347.1	3330.9	3308.3	3295.3	3292.1
15°	3114.0	3143.2	3195.0	3275.9	3324.4	3337.4	3314.7	3262.9	3211.1	3182.0	3178.8
17.5°	3149.6	3169.1	3211.1	3282.4	3321.2	3305.0	3259.7	3198.2	3159.4	3136.7	3139.9
20°	3172.3	3172.3	3204.7	3259.7	3292.1	3279.1	3224.1	3156.1	3094.6	3065.5	3055.8
22.5°	3204.7	3188.5	3191.7	3240.3	3285.6	3266.2	3149.6	3029.9	2942.5	2910.1	2906.9
25°	3292.1	3246.8	3217.6	3246.8	3353.6	3195.0	2961.9	2822.7	2741.8	2712.6	2715.9
27.5°	3398.9	3337.4	3275.9	3324.4	3408.6	3033.1	2722.4	2563.7	2515.2	2492.5	2502.2
30°	3505.7	3424.8	3343.9	3518.7	3369.8	2780.6	2414.8	2259.5	2217.4	2201.2	2214.1
32.5°	3703.2	3570.5	3473.3	3777.6	3250.0	2492.5	2081.4	1939.0	1900.1	1880.7	1874.2
35°	4033.4	3865.0	3767.9	4004.2	3081.7	2172.1	1777.1	1676.8	1634.7	1592.6	1586.2
37.5°	4509.2	4305.3	4217.9	4133.7	2845.4	1854.8	1544.1	1476.1	1414.6	1349.8	1346.6
40°	5078.9	4813.5	4748.7	4192.0	2518.4	1557.0	1382.2	1317.5	1239.8	1178.3	1181.5
42.5°	5736.0	5396.2	5257.0	4175.8	2113.8	1398.4	1265.7	1194.5	1126.5	1071.5	1068.2
45°	6438.5	6053.3	5732.8	4062.5	1712.4	1288.3	1194.5	1110.3	1042.3	980.8	974.4
47.5°	7215.4	6784.8	6173.0	3842.4	1414.6	1210.7	1152.4	1032.6	971.1	932.3	932.3
50°	7998.7	7484.0	6577.7	3509.0	1239.8	1152.4	1090.9	990.5	942.0	909.6	909.6
52.5°	8668.8	8212.4	6911.1	3110.8	1129.7	1103.8	1048.8	971.1	919.3	890.2	887.0
55°	9319.5	8888.9	7208.9	2715.9	1039.1	1039.1	1039.1	954.9	896.7	870.8	867.5
57.5°	9966.9	9601.1	7519.7	2456.9	958.2	984.1	1019.7	935.5	877.2	854.6	851.3
60°	10698.4	10455.7	7879.0	2275.6	887.0	925.8	993.8	912.8	844.9	825.4	822.2
62.5°	11475.3	11475.3	8205.9	2019.9	822.2	877.2	954.9	883.7	815.7	799.5	796.3
65°	12083.9	12346.1	8416.3	1637.9	757.5	828.7	909.6	844.9	776.9	773.7	767.2
67.5°	12155.1	12566.2	8283.6	1236.6	699.2	776.9	864.3	802.8	738.0	738.0	728.3
70°	11643.6	12061.2	7869.3	925.8	657.1	725.1	806.0	751.0	689.5	696.0	679.8
72.5°	10789.1	10892.7	6839.9	731.6	608.6	670.1	734.8	692.7	637.7	637.7	615.0
75°	9662.6	9086.4	4968.9	611.8	550.3	605.3	663.6	628.0	579.4	563.2	550.3
77.5°	7691.2	6584.1	2887.4	527.6	501.7	543.8	582.7	556.8	514.7	479.1	479.1
80°	4687.2	3858.6	1275.4	456.4	443.5	475.8	501.7	472.6	437.0	401.4	391.7
82.5°	1783.6	1489.0	618.3	391.7	388.4	407.9	427.3	398.2	372.3	356.1	307.5
85°	488.8	449.9	424.1	326.9	320.5	317.2	339.9	326.9	291.3	239.5	213.6
87.5°	184.5	210.4	229.8	200.7	213.6	197.5	226.6	207.2	184.5	119.8	106.8
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)