

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: P318377

Luminaire Tested: **GAN-SA3D-730-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318377
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21577 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 191
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: 24 FT

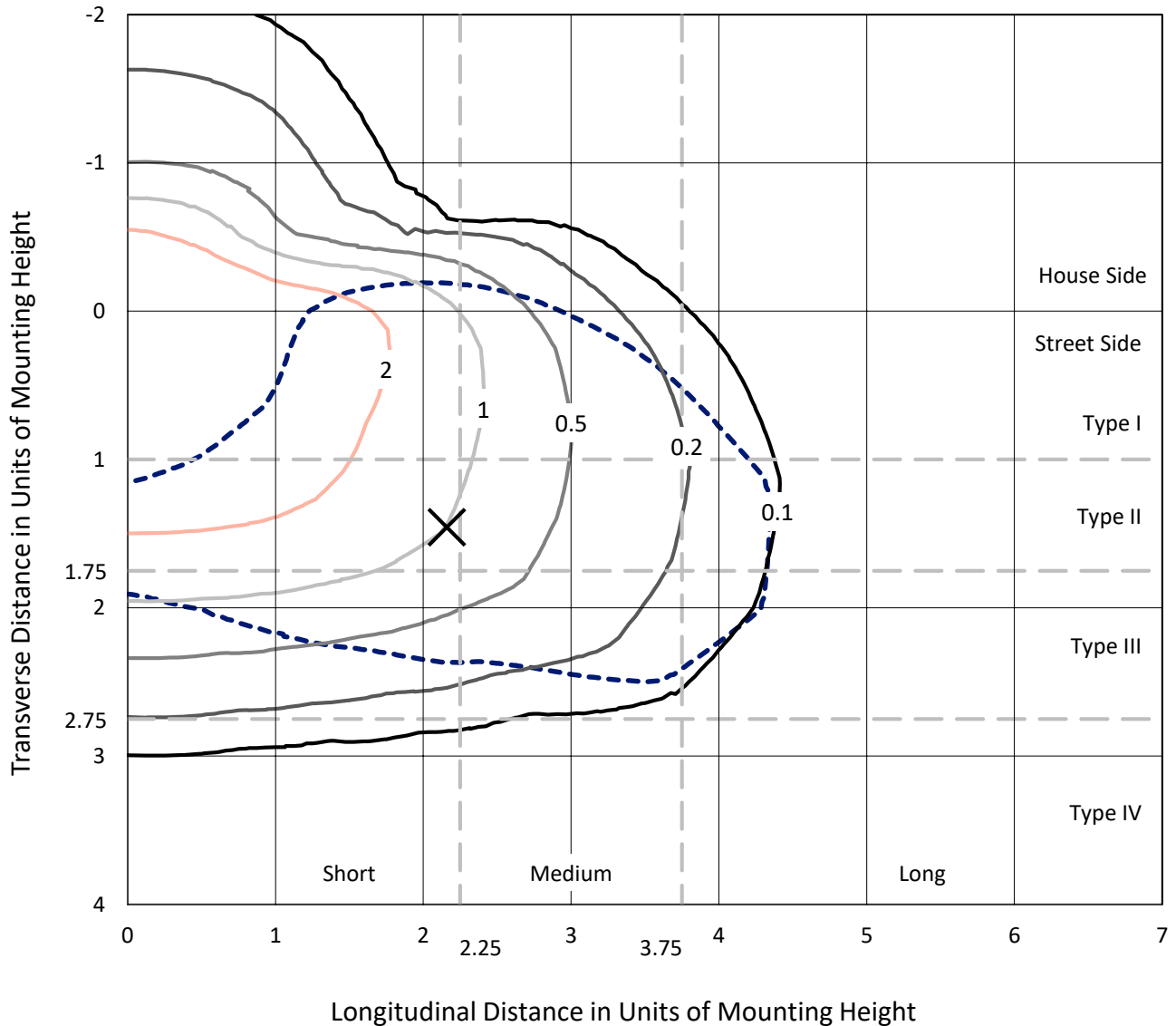




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Iso-Footcandle Lines of Horizontal Illumination

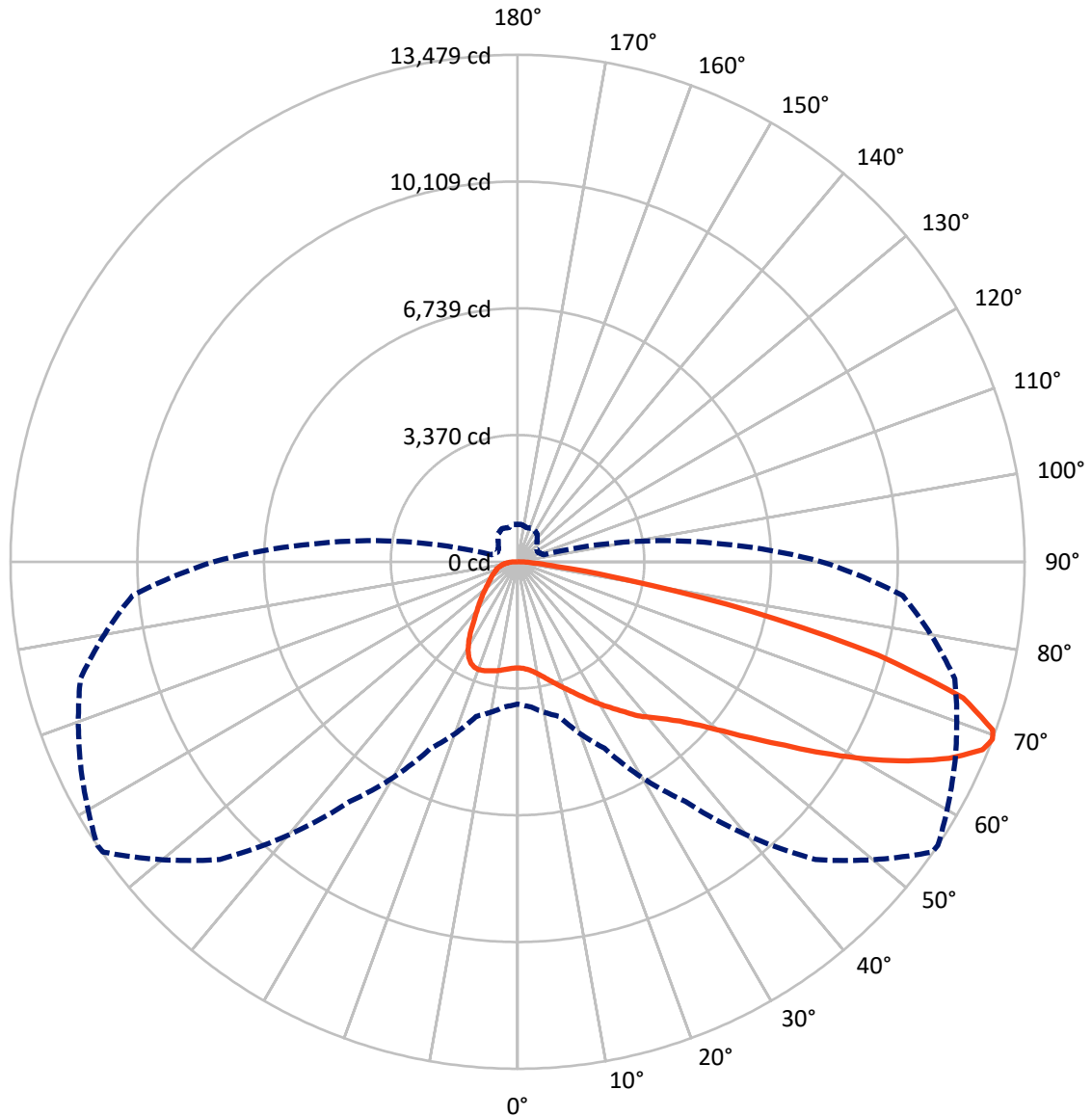
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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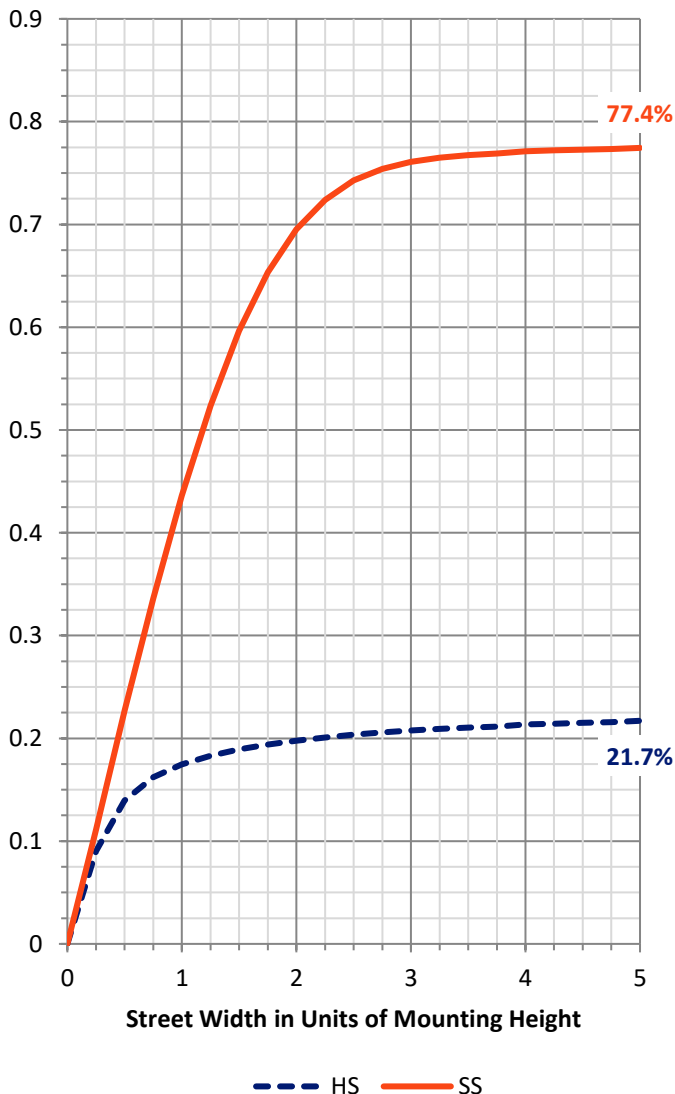
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4805.2	0.0	4805.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	16771.8	0.0	16771.8
	% Fixture	77.7	0.0	77.7
Total	Lumens	21577.0	0.0	21577.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.0	1.3
10°-20°	890.9	4.1
20°-30°	1555.2	7.2
30°-40°	2233.9	10.4
40°-50°	3091.6	14.3
50°-60°	4529.7	21.0
60°-70°	5522.5	25.6
70°-80°	3053.2	14.2
80°-90°	422.9	2.0
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°	21577.0	100.0
0°-180°	21577.0	100.0

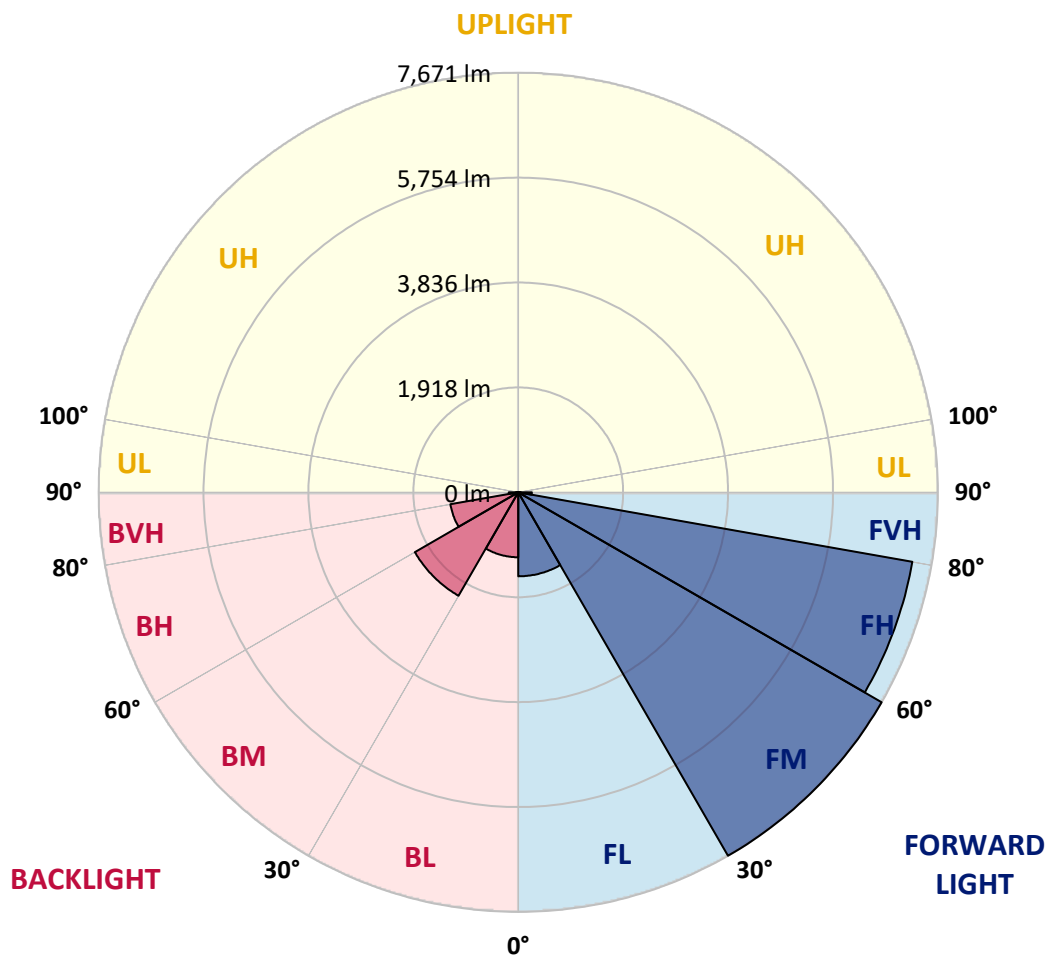


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1535.6	7.1			
FM (30°-60°)	7671.4	35.6			
FH (60°-80°)	7315.7	33.9			G3/7500
FVH (80°-90°)	249.1	1.2			G3/500
BL (0°-30°)	1187.5	5.5	B3/2500		
BM (30°-60°)	2183.8	10.1	B2/2500		
BH (60°-80°)	1260.1	5.8	B3/2500		G3/2500
BVH (80°-90°)	173.8	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2820.9	2820.9	2820.9	2820.9	2820.9	2820.9	2820.9	2820.9	2820.9	2820.9	2820.9
2.5°	2838.7	2841.7	2839.5	2845.4	2838.7	2843.2	2839.5	2839.5	2837.2	2830.5	2823.1
5°	2883.3	2889.3	2885.5	2891.5	2883.3	2884.8	2878.1	2878.1	2871.4	2857.3	2842.4
7.5°	2953.2	2959.9	2956.9	2962.8	2951.7	2951.7	2942.8	2942.0	2928.6	2905.6	2888.5
10°	3036.4	3045.3	3042.4	3051.3	3042.4	3045.3	3036.4	3036.4	3018.6	2985.9	2964.3
12.5°	3157.6	3168.7	3160.6	3159.8	3156.1	3162.0	3154.6	3153.1	3136.8	3092.2	3062.4
15°	3319.6	3331.5	3314.4	3312.9	3292.1	3289.9	3289.9	3287.7	3277.3	3223.7	3174.7
17.5°	3506.2	3509.9	3495.1	3471.3	3444.5	3427.4	3425.2	3431.1	3431.1	3368.7	3290.6
20°	3689.1	3695.7	3683.9	3657.1	3622.9	3597.6	3579.8	3591.7	3590.9	3516.6	3405.9
22.5°	3888.3	3903.9	3886.0	3851.8	3811.7	3783.5	3752.2	3762.6	3763.4	3672.0	3518.8
25°	4146.2	4132.1	4120.9	4072.6	4015.4	3986.4	3957.4	3967.8	3964.8	3839.2	3635.5
27.5°	4374.4	4377.4	4362.5	4311.2	4245.1	4181.1	4179.6	4186.3	4175.2	4013.1	3745.5
30°	4639.8	4641.2	4620.4	4574.3	4502.2	4419.7	4400.4	4411.6	4387.8	4178.2	3861.5
32.5°	4903.6	4911.1	4888.0	4832.3	4774.3	4673.9	4635.3	4642.7	4583.3	4346.9	3981.2
35°	5134.8	5145.2	5137.8	5100.6	5037.4	4951.2	4905.1	4900.7	4827.1	4553.5	4139.5
37.5°	5370.4	5380.1	5371.9	5340.7	5315.4	5224.0	5199.5	5199.5	5071.6	4764.6	4340.9
40°	5612.7	5627.6	5617.9	5574.8	5553.3	5511.7	5452.9	5438.8	5300.6	5018.1	4669.5
42.5°	5838.0	5857.3	5895.9	5870.7	5826.8	5832.8	5714.6	5707.1	5606.1	5392.7	5082.0
45°	6157.6	6185.8	6251.3	6231.9	6223.0	6190.3	6049.8	6043.1	6004.5	5896.7	5594.2
47.5°	6506.2	6544.9	6663.0	6666.8	6762.6	6701.0	6509.9	6486.9	6495.8	6500.3	6219.3
50°	6827.3	6869.7	7063.7	7155.1	7381.1	7394.5	7089.0	7068.2	7103.1	7205.7	6947.7
52.5°	7083.8	7137.3	7379.6	7662.1	8049.3	8159.3	7801.8	7786.2	7812.2	7989.1	7771.3
55°	7271.8	7329.8	7593.7	8108.0	8726.5	8920.5	8622.4	8607.5	8623.9	8849.1	8667.0
57.5°	7315.7	7329.8	7712.6	8408.3	9298.1	9764.1	9626.6	9596.9	9516.6	9712.9	9655.6
60°	7109.8	7166.3	7614.5	8513.9	9740.4	10595.9	10676.2	10639.0	10413.8	10574.4	10528.3
62.5°	6692.0	6793.1	7248.0	8353.3	9913.5	11275.3	11705.7	11661.1	11273.1	11377.1	11155.6
65°	6009.7	6052.8	6530.7	7799.6	9693.5	11710.1	12623.7	12601.4	12113.0	11950.2	11271.6
67.5°	4789.2	4870.2	5276.0	6642.2	8793.4	11658.8	13333.5	13331.3	12661.6	12162.8	10860.5
69°	3783.5	3867.5	4254.0	5471.5	7781.0	11189.8	13452.5	13478.5	12816.2	12033.5	10273.3
70°	3016.4	3113.7	3379.1	4608.5	6882.3	10571.4	13353.6	13400.4	12786.4	11820.1	9731.4
72.5°	1283.7	1362.5	1551.3	2375.6	4194.5	7894.0	12209.6	12386.5	12097.4	10818.2	8042.6
75°	560.5	585.0	670.5	968.5	1862.0	4296.3	9564.9	9892.0	10343.9	9144.2	5991.1
77.5°	410.3	420.7	467.5	568.6	835.5	1622.6	6150.9	6341.2	7459.9	6654.1	3674.9
80°	317.4	324.8	361.2	417.7	545.6	656.3	2805.3	2968.8	4194.5	3417.7	1530.5
82.5°	252.7	257.9	283.2	307.7	376.9	397.7	931.4	1033.2	1548.3	944.0	405.1
85°	234.9	240.8	249.8	224.5	241.6	233.4	402.9	421.5	467.5	370.9	169.5
87.5°	106.3	125.6	247.5	174.7	128.6	102.6	165.0	172.4	194.0	194.7	75.1
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°	2820.9	2820.9	2820.9	2820.9	2820.9	2820.9	2820.9	2820.9	2820.9	2820.9	2820.9
2.5°	2827.6	2825.3	2829.0	2820.1	2831.3	2830.5	2826.8	2828.3	2835.7	2835.0	2835.7
5°	2844.7	2843.2	2847.6	2840.9	2854.3	2858.8	2859.5	2866.2	2874.4	2876.6	2876.6
7.5°	2887.8	2887.8	2890.0	2881.1	2890.0	2889.3	2885.5	2892.2	2900.4	2901.1	2900.4
10°	2962.1	2962.8	2959.1	2936.1	2928.6	2908.6	2890.0	2890.7	2901.1	2909.3	2911.6
12.5°	3055.8	3052.8	3036.4	2994.1	2962.8	2922.0	2902.6	2901.9	2912.3	2919.0	2921.2
15°	3162.8	3154.6	3112.2	3043.1	2988.1	2948.0	2916.8	2909.3	2903.4	2895.9	2896.7
17.5°	3263.9	3245.3	3174.7	3078.8	3020.8	2967.3	2907.1	2858.8	2825.3	2806.0	2800.1
20°	3366.5	3330.0	3228.2	3112.2	3038.7	2941.3	2825.3	2727.2	2666.3	2638.0	2632.8
22.5°	3460.1	3401.4	3278.0	3147.2	3024.5	2853.6	2671.5	2528.7	2444.0	2406.1	2409.1
25°	3551.5	3469.8	3330.0	3171.7	2953.2	2699.0	2457.4	2282.0	2183.8	2141.5	2140.0
27.5°	3631.8	3538.9	3386.5	3151.6	2820.1	2478.9	2203.9	2033.0	1951.2	1914.8	1908.8
30°	3724.0	3625.9	3461.6	3075.1	2625.4	2224.7	1956.4	1836.0	1778.0	1741.6	1734.9
32.5°	3836.2	3744.1	3523.3	2936.1	2376.4	1959.4	1763.1	1679.1	1626.4	1585.5	1578.1
35°	3999.8	3900.2	3538.9	2736.9	2102.8	1749.8	1621.2	1534.9	1463.6	1410.8	1405.6
37.5°	4204.9	4095.6	3503.2	2478.9	1837.5	1613.7	1503.0	1396.7	1303.8	1229.4	1217.5
40°	4500.8	4335.7	3404.4	2181.6	1642.0	1508.9	1387.8	1266.6	1151.4	1064.4	1047.3
42.5°	4856.1	4617.5	3252.7	1885.8	1498.5	1402.6	1273.3	1123.1	1013.1	951.4	942.5
45°	5308.0	4910.3	3042.4	1627.1	1357.3	1296.3	1149.9	1011.6	943.3	897.9	890.5
47.5°	5823.8	5238.9	2821.6	1416.8	1237.6	1196.7	1051.0	961.8	907.6	871.9	865.2
50°	6457.9	5609.8	2587.5	1244.3	1117.2	1077.1	1004.2	934.3	891.2	863.7	857.0
52.5°	7173.0	6028.3	2418.7	1108.3	1017.6	988.6	979.7	919.5	884.5	863.7	857.0
55°	7943.0	6454.2	2236.6	993.8	931.4	939.5	963.3	921.0	897.2	871.9	862.2
57.5°	8713.8	6894.2	2033.7	897.2	863.0	903.1	952.2	923.9	903.9	879.3	870.4
60°	9323.4	7173.0	1719.3	816.2	808.7	863.0	925.4	901.6	875.6	876.4	874.9
62.5°	9608.0	7158.1	1372.2	744.1	754.5	808.7	882.3	866.7	845.1	874.1	876.4
65°	9448.2	6801.3	1068.1	678.6	696.5	752.2	837.7	849.6	857.0	912.8	920.2
67.5°	8777.8	6107.0	827.3	621.4	643.7	713.6	842.2	925.4	935.1	993.8	993.1
69°	8084.3	5455.9	718.8	591.7	617.7	723.2	900.2	973.7	937.3	999.8	990.8
70°	7503.0	4940.8	660.8	571.6	605.8	740.3	938.8	973.0	926.2	979.7	964.8
72.5°	5778.5	3554.5	560.5	534.4	565.7	708.4	950.0	951.4	900.2	910.6	885.3
75°	3963.3	2246.3	489.1	483.9	504.7	638.5	914.3	909.1	832.5	817.6	796.8
77.5°	2185.3	1141.0	415.5	435.6	449.7	565.7	831.0	823.6	760.4	729.2	721.8
80°	842.9	499.5	350.8	387.3	396.2	489.8	728.4	721.8	669.0	628.8	617.7
82.5°	318.1	261.6	289.9	335.2	332.3	404.4	616.9	613.2	561.9	503.2	485.4
85°	147.2	156.8	229.7	276.5	255.0	299.6	493.6	500.2	437.8	367.9	367.9
87.5°	62.4	87.7	162.8	208.9	171.7	202.2	362.0	345.6	317.4	220.0	206.6
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)