

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: McGRAW-EDISON

Report Number: P383039

Luminaire Tested: **GLEON-SA3D-735-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383039
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: McGRAW-EDISON
Catalog Number: GLEON-SA3D-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22071.2 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

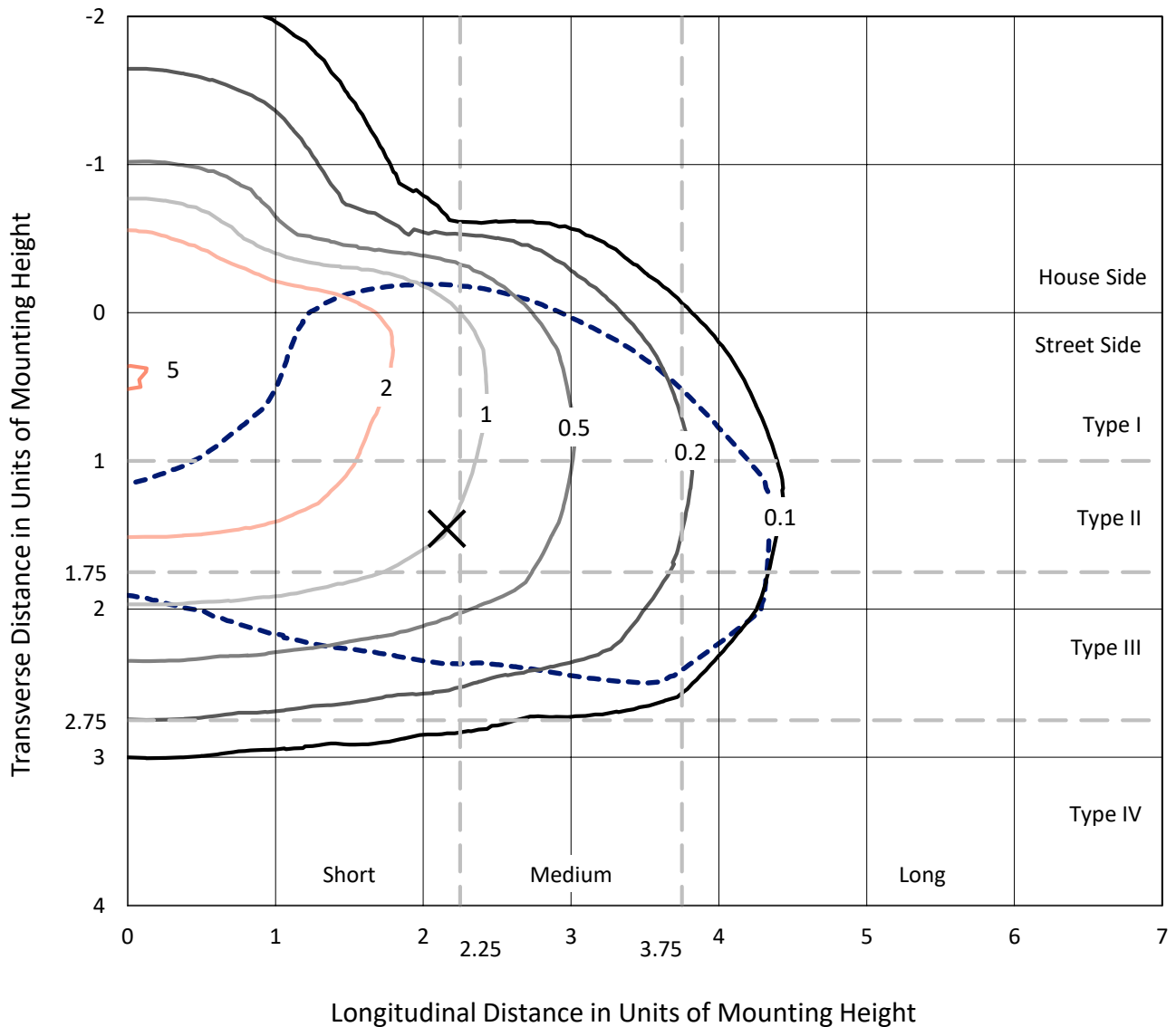
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

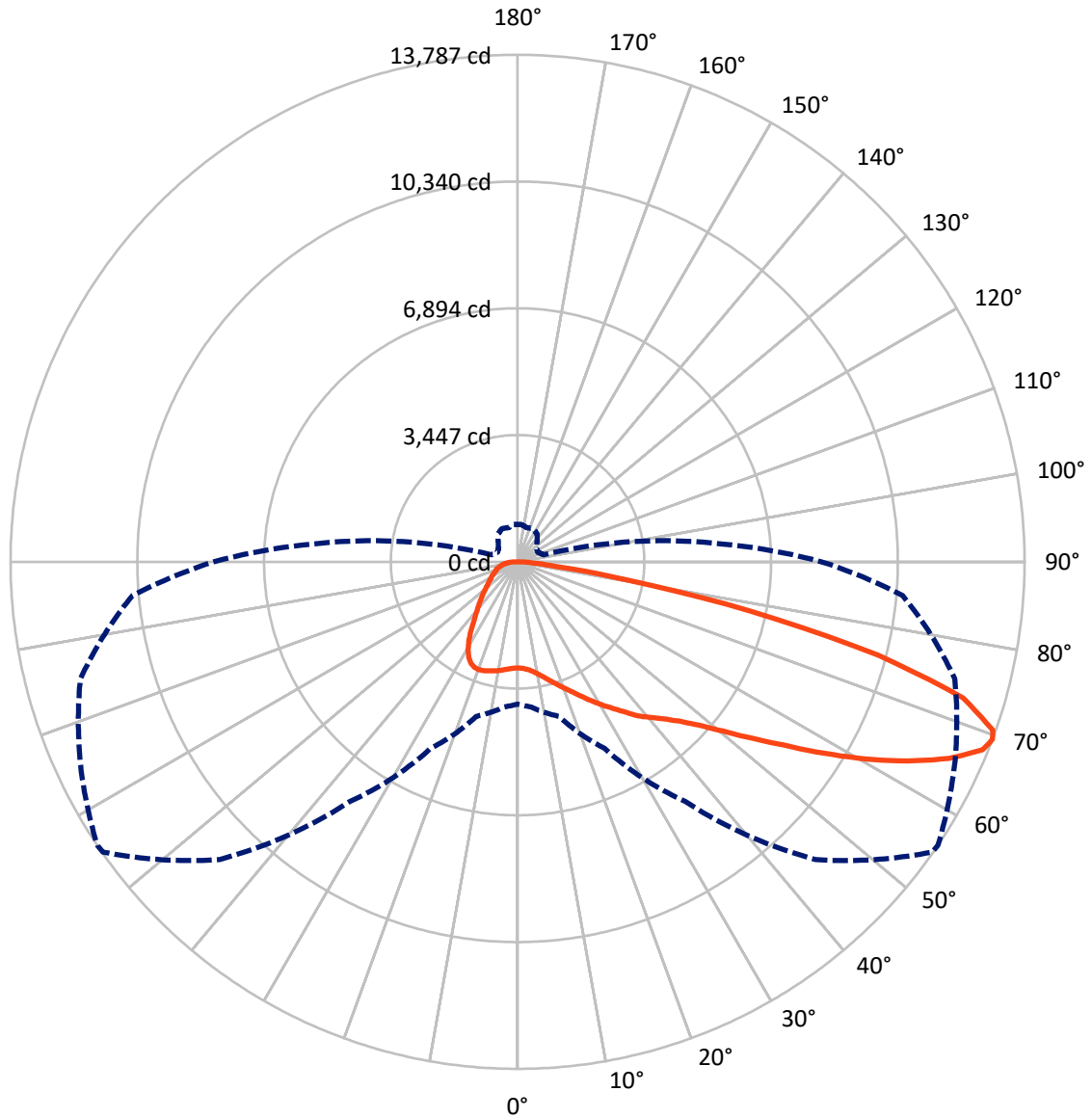
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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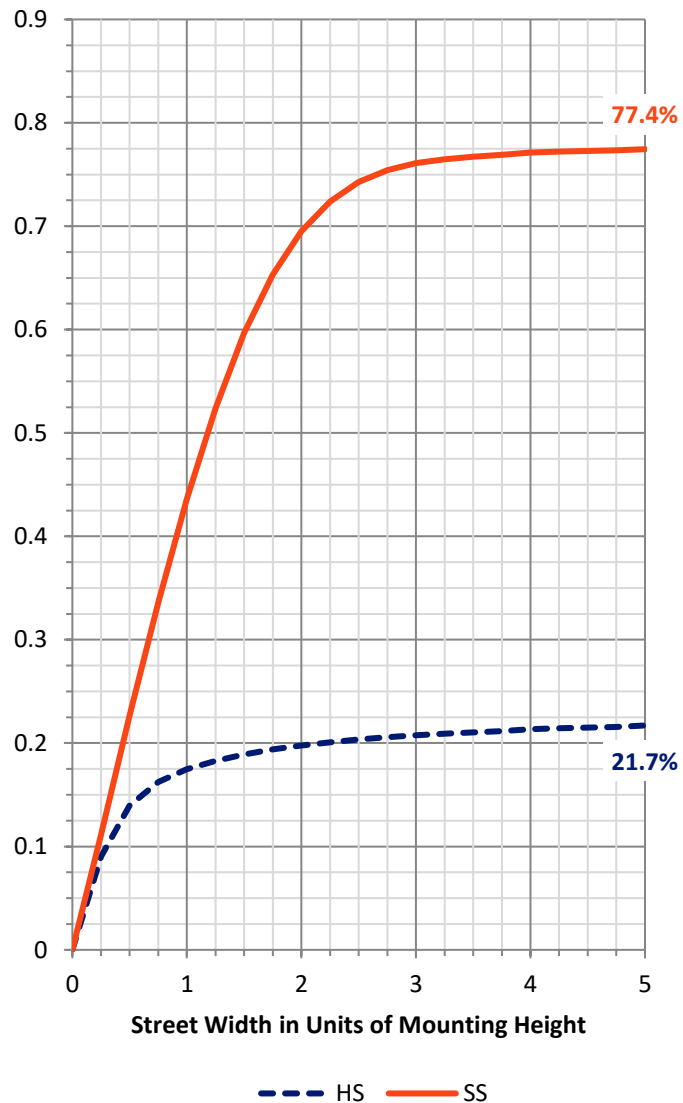
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4915.2	0.0	4915.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	17156.0	0.0	17156.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	22071.2	0.0	22071.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.4	1.3
10°-20°	911.3	4.1
20°-30°	1590.8	7.2
30°-40°	2285.1	10.4
40°-50°	3162.5	14.3
50°-60°	4633.4	21.0
60°-70°	5649.0	25.6
70°-80°	3123.1	14.2
80°-90°	432.6	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°	22071.2	100.0
0°-180°	22071.2	100.0

Coefficient of Utilization

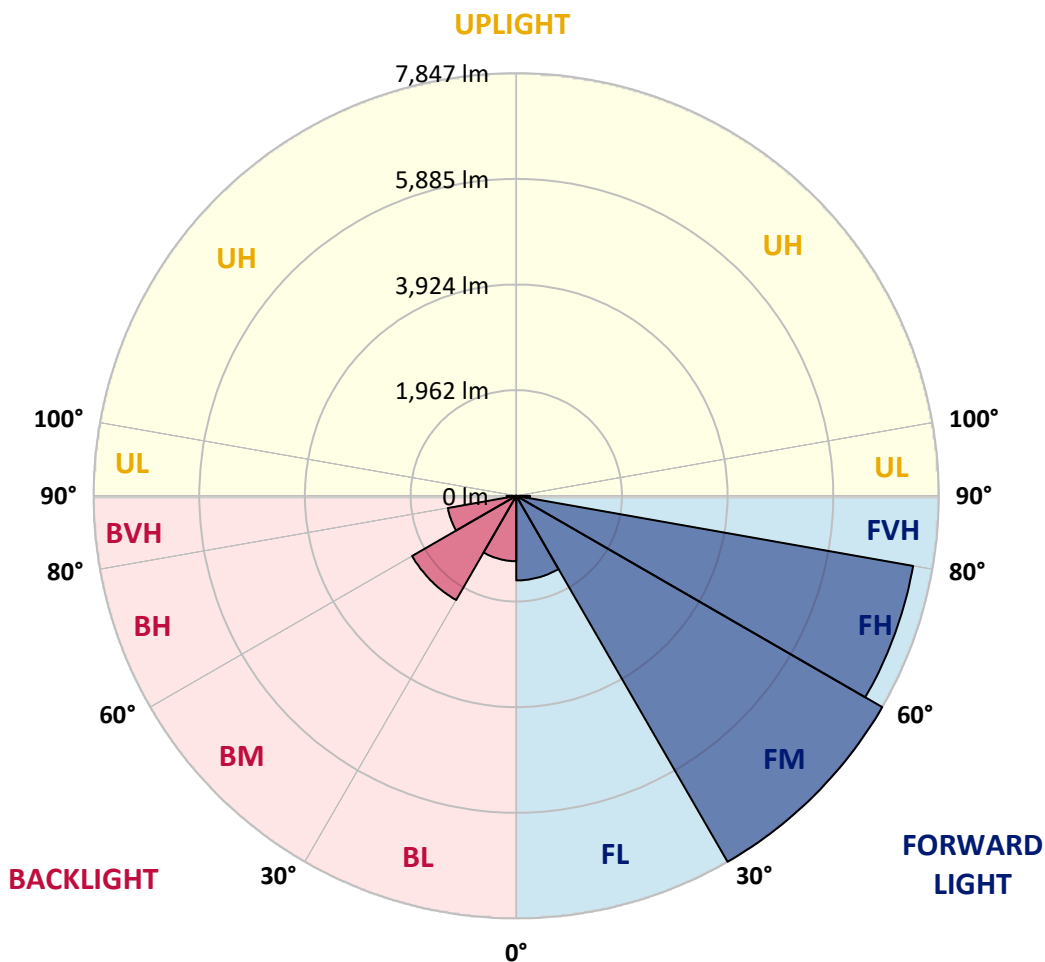


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1570.8	7.1			
FM (30°-60°)	7847.1	35.6			
FH (60°-80°)	7483.2	33.9			G3/7500
FVH (80°-90°)	254.8	1.2			G3/500
BL (0°-30°)	1214.7	5.5	B3/2500		
BM (30°-60°)	2233.9	10.1	B2/2500		
BH (60°-80°)	1288.9	5.8	B3/2500		G3/2500
BVH (80°-90°)	177.8	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°	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5
2.5°	2903.7	2906.8	2904.5	2910.5	2903.7	2908.3	2904.5	2904.5	2902.2	2895.3	2887.8
5°	2949.4	2955.4	2951.6	2957.7	2949.4	2950.9	2944.1	2944.1	2937.2	2922.7	2907.5
7.5°	3020.8	3027.6	3024.6	3030.7	3019.3	3019.3	3010.2	3009.4	2995.8	2972.2	2954.7
10°	3106.0	3115.1	3112.0	3121.2	3112.0	3115.1	3106.0	3106.0	3087.7	3054.3	3032.2
12.5°	3229.9	3241.3	3232.9	3232.2	3228.4	3234.4	3226.9	3225.3	3208.6	3163.0	3132.6
15°	3395.7	3407.8	3390.4	3388.8	3367.5	3365.2	3365.2	3363.0	3352.4	3297.6	3247.4
17.5°	3586.5	3590.3	3575.1	3550.8	3523.4	3505.9	3503.6	3509.7	3509.7	3445.8	3366.0
20°	3773.5	3780.4	3768.2	3740.8	3705.9	3680.0	3661.7	3673.9	3673.2	3597.2	3483.9
22.5°	3977.3	3993.3	3975.0	3940.1	3899.0	3870.1	3838.2	3848.8	3849.6	3756.1	3599.4
25°	4241.1	4226.7	4215.3	4165.9	4107.3	4077.7	4048.0	4058.7	4055.6	3927.1	3718.8
27.5°	4474.6	4477.6	4462.4	4409.9	4342.3	4276.9	4275.3	4282.2	4270.8	4105.1	3831.4
30°	4746.0	4747.5	4726.2	4679.1	4605.4	4521.0	4501.1	4512.6	4488.3	4273.8	3949.9
32.5°	5015.9	5023.6	5000.0	4943.0	4883.6	4781.0	4741.5	4749.0	4688.2	4446.5	4072.4
35°	5252.4	5263.1	5255.4	5217.4	5152.8	5064.6	5017.4	5012.8	4937.6	4657.8	4234.3
37.5°	5493.4	5503.3	5494.9	5463.0	5437.2	5343.6	5318.6	5318.6	5187.8	4873.8	4440.3
40°	5741.3	5756.5	5746.6	5702.5	5680.5	5637.9	5577.8	5563.4	5422.0	5133.0	4776.4
42.5°	5971.7	5991.4	6030.9	6005.1	5960.2	5966.4	5845.5	5837.8	5734.4	5516.3	5198.4
45°	6298.7	6327.5	6394.4	6374.7	6365.5	6332.1	6188.4	6181.6	6142.0	6031.8	5722.3
47.5°	6655.3	6694.8	6815.7	6819.5	6917.5	6854.4	6659.0	6635.4	6644.5	6649.1	6361.7
50°	6983.7	7027.0	7225.5	7319.0	7550.1	7563.8	7251.4	7230.0	7265.8	7370.7	7106.9
52.5°	7245.9	7300.7	7548.6	7837.6	8233.7	8346.2	7980.5	7964.5	7991.1	8172.1	7949.3
55°	7438.3	7497.7	7767.6	8293.8	8926.4	9124.8	8819.9	8804.7	8821.4	9051.8	8865.5
57.5°	7483.2	7497.7	7889.3	8600.9	9511.0	9987.8	9847.1	9816.6	9734.6	9935.3	9876.7
60°	7272.6	7330.3	7788.9	8708.9	9963.5	10838.6	10920.7	10882.7	10652.3	10816.6	10769.3
62.5°	6845.3	6948.7	7414.0	8544.6	10140.5	11533.5	11973.7	11928.1	11531.3	11637.7	11411.1
65°	6147.3	6191.4	6680.3	7978.2	9915.5	11978.3	12912.7	12889.9	12390.4	12223.9	11529.8
67.5°	4898.8	4981.7	5396.8	6794.3	8994.7	11925.9	13638.9	13636.6	12951.6	12441.4	11109.3
69°	3870.1	3956.0	4351.4	5596.8	7959.1	11446.1	13760.5	13787.2	13109.7	12309.1	10508.6
70°	3085.5	3185.1	3456.5	4714.1	7040.0	10813.5	13659.4	13707.4	13079.3	12090.8	9954.3
72.5°	1313.1	1393.7	1586.8	2430.0	4290.6	8074.7	12489.3	12670.3	12374.5	11065.9	8226.9
75°	573.3	598.4	685.8	990.7	1904.6	4394.8	9784.0	10118.6	10580.8	9353.7	6128.3
77.5°	419.7	430.4	478.3	581.7	854.6	1659.8	6291.8	6486.5	7630.7	6806.5	3759.1
80°	324.6	332.3	369.5	427.3	558.1	671.4	2869.5	3036.8	4290.6	3496.0	1565.6
82.5°	258.5	263.8	289.7	314.8	385.5	406.8	952.7	1056.8	1583.8	965.6	414.4
85°	240.2	246.4	255.4	229.6	247.1	238.8	412.1	431.1	478.3	379.4	173.4
87.5°	108.7	128.5	253.2	178.7	131.5	104.9	168.8	176.4	198.4	199.2	76.8
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°	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5	2885.5
2.5°	2892.3	2890.0	2893.9	2884.7	2896.1	2895.3	2891.5	2893.1	2900.7	2899.9	2900.7
5°	2909.8	2908.3	2912.9	2906.0	2919.7	2924.2	2925.0	2931.9	2940.2	2942.5	2942.5
7.5°	2953.9	2953.9	2956.2	2947.0	2956.2	2955.4	2951.6	2958.5	2966.8	2967.6	2966.8
10°	3030.0	3030.7	3026.9	3003.3	2995.8	2975.2	2956.2	2956.9	2967.6	2975.9	2978.3
12.5°	3125.7	3122.7	3106.0	3062.6	3030.7	2988.9	2969.1	2968.4	2979.0	2985.8	2988.1
15°	3235.3	3226.9	3183.6	3112.8	3056.5	3015.5	2983.6	2975.9	2969.9	2962.2	2963.1
17.5°	3338.7	3319.7	3247.4	3149.3	3090.0	3035.3	2973.7	2924.2	2890.0	2870.3	2864.1
20°	3443.6	3406.3	3302.1	3183.6	3108.3	3008.6	2890.0	2789.7	2727.3	2698.4	2693.1
22.5°	3539.3	3479.3	3353.1	3219.2	3093.8	2918.9	2732.6	2586.6	2500.0	2461.2	2464.2
25°	3632.8	3549.3	3406.3	3244.4	3020.8	2760.7	2513.7	2334.3	2233.9	2190.5	2189.0
27.5°	3715.0	3620.0	3464.1	3223.8	2884.7	2535.7	2254.4	2079.5	1995.8	1958.6	1952.5
30°	3809.3	3709.0	3540.9	3145.5	2685.5	2275.7	2001.2	1878.0	1818.8	1781.5	1774.6
32.5°	3924.1	3829.8	3604.0	3003.3	2430.8	2004.2	1803.5	1717.6	1663.7	1621.8	1614.2
35°	4091.4	3989.4	3620.0	2799.6	2150.9	1789.8	1658.2	1570.1	1497.1	1443.2	1437.8
37.5°	4301.2	4189.4	3583.5	2535.7	1879.6	1650.7	1537.4	1428.7	1333.6	1257.6	1245.4
40°	4603.8	4435.0	3482.3	2231.6	1679.6	1543.5	1419.6	1295.6	1177.8	1088.8	1071.3
42.5°	4967.3	4723.2	3327.2	1929.0	1532.9	1434.8	1302.5	1148.9	1036.3	973.2	964.1
45°	5429.5	5022.8	3112.0	1664.4	1388.4	1326.1	1176.3	1034.9	964.9	918.5	910.9
47.5°	5957.2	5358.8	2886.2	1449.2	1266.0	1224.1	1075.1	983.9	928.4	891.9	885.1
50°	6605.8	5738.2	2646.7	1272.8	1142.8	1101.7	1027.2	955.8	911.6	883.5	876.7
52.5°	7337.2	6166.3	2474.1	1133.7	1040.9	1011.3	1002.2	940.5	904.8	883.5	876.7
55°	8125.0	6602.0	2287.9	1016.6	952.7	961.1	985.4	942.1	917.8	891.9	882.0
57.5°	8913.4	7052.1	2080.2	917.8	882.7	923.8	974.0	945.1	924.6	899.5	890.4
60°	9536.9	7337.2	1758.7	834.9	827.2	882.7	946.6	922.3	895.7	896.4	894.9
62.5°	9828.1	7322.1	1403.6	761.1	771.7	827.2	902.5	886.6	864.5	894.2	896.4
65°	9664.6	6957.1	1092.6	694.2	712.4	769.5	856.9	869.0	876.7	933.7	941.3
67.5°	8978.8	6247.0	846.2	635.6	658.4	730.0	861.5	946.6	956.5	1016.6	1015.9
69°	8269.4	5580.9	735.3	605.2	631.9	739.8	920.7	996.0	958.7	1022.7	1013.5
70°	7674.8	5053.9	675.9	584.7	619.7	757.3	960.3	995.3	947.4	1002.2	986.9
72.5°	5910.9	3635.9	573.3	546.7	578.6	724.6	971.7	973.2	920.7	931.5	905.6
75°	4054.1	2297.8	500.3	495.0	516.3	653.1	935.2	929.9	851.6	836.3	815.1
77.5°	2235.3	1167.1	425.1	445.6	460.0	578.6	850.0	842.5	777.8	745.9	738.3
80°	862.2	511.0	358.8	396.1	405.2	501.1	745.1	738.3	684.3	643.2	631.9
82.5°	325.4	267.6	296.5	342.9	339.8	413.6	631.1	627.3	574.9	514.8	496.5
85°	150.5	160.4	234.9	282.8	260.8	306.4	504.9	511.7	447.8	376.3	376.3
87.5°	63.9	89.7	166.5	213.7	175.6	206.8	370.3	353.5	324.6	225.1	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

(END OF REPORT)