

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: P317887

Luminaire Tested: **GLEON-SA3C-827-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317887  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA3C-827-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16230 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

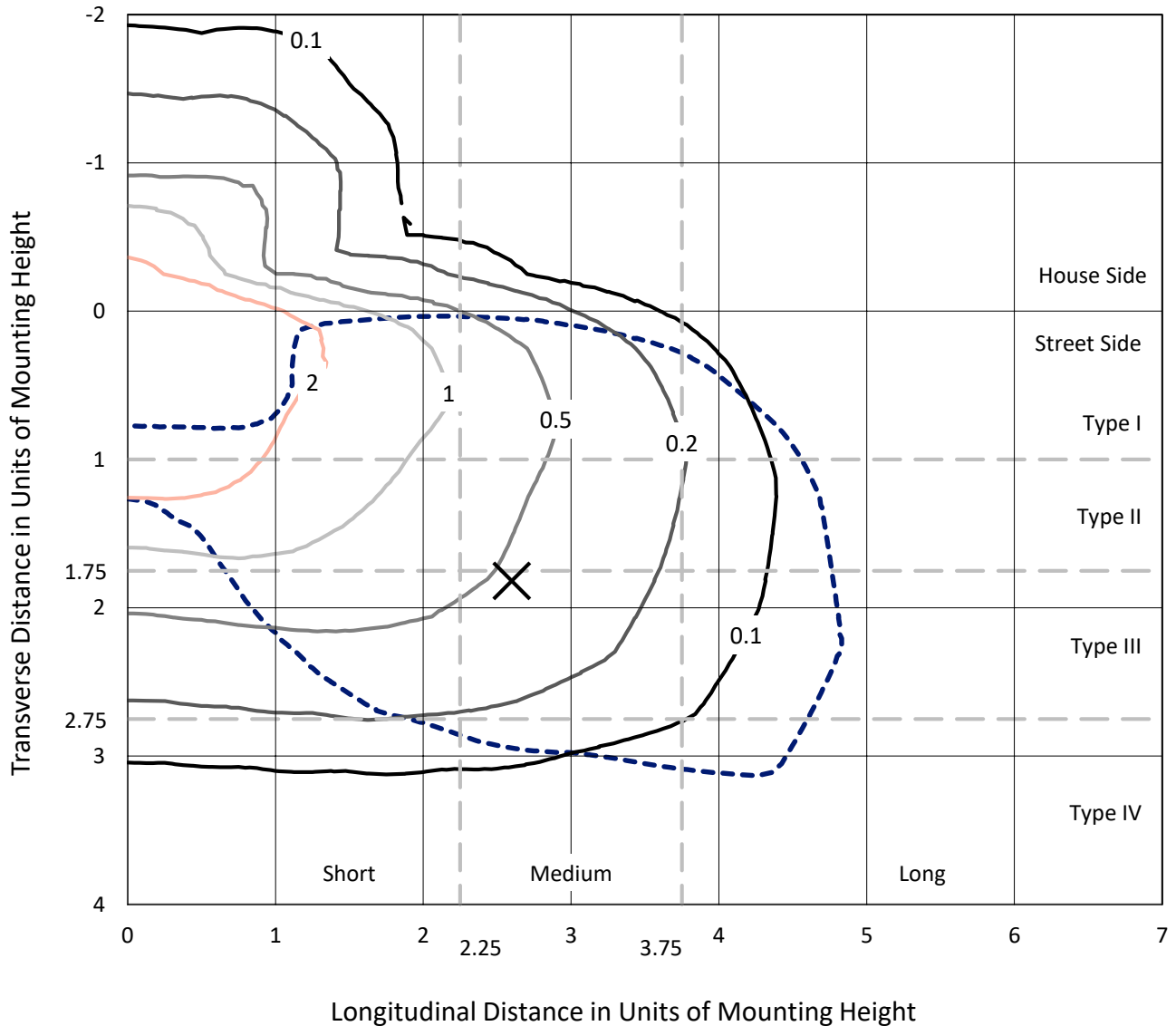
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

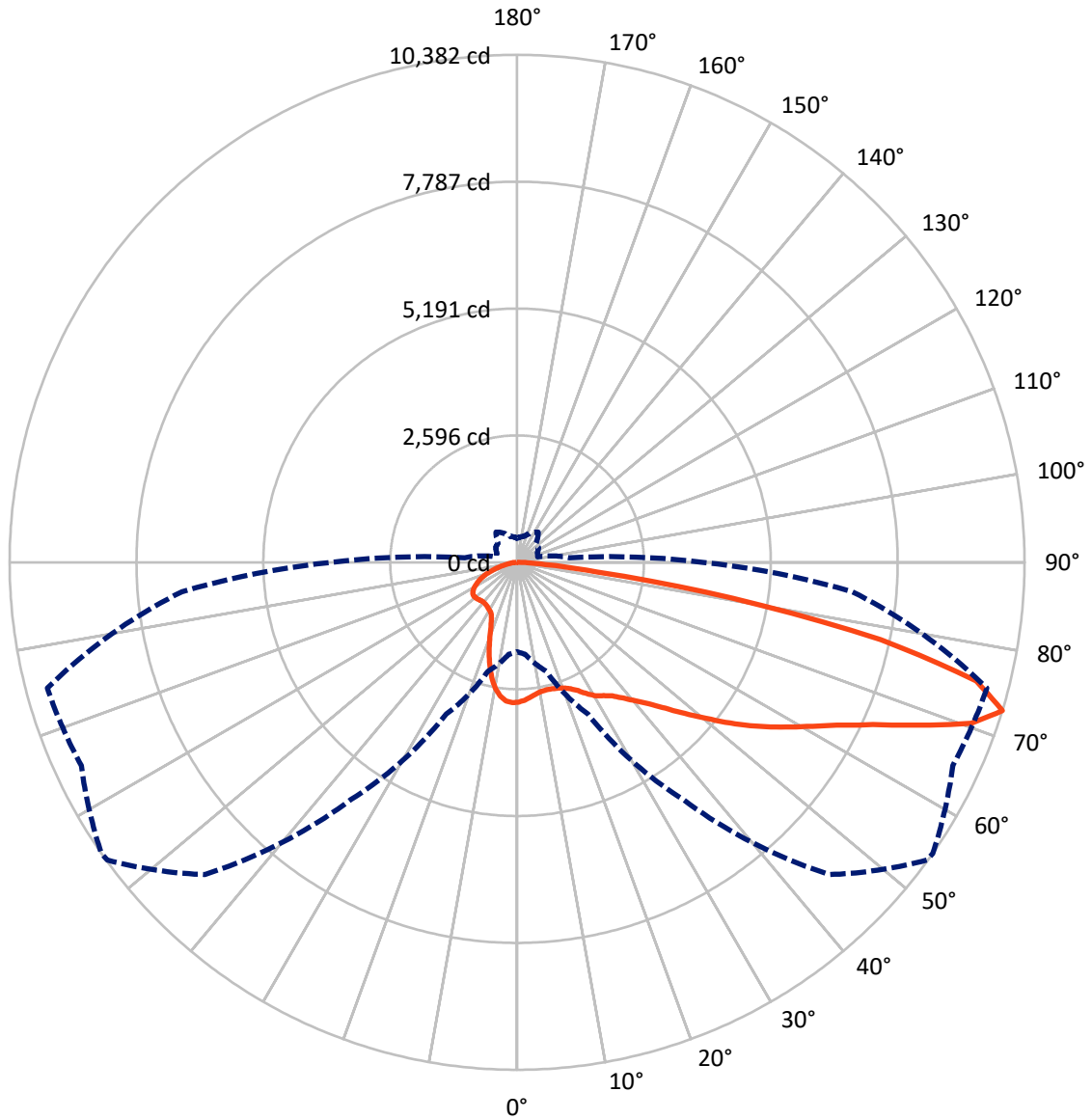
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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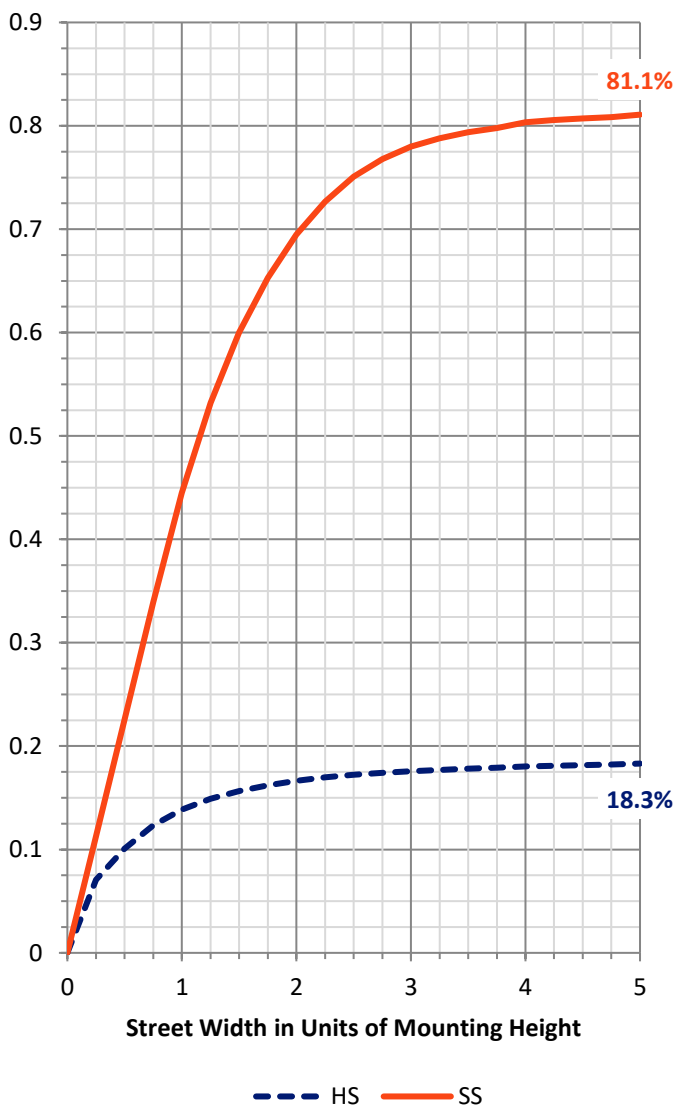
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3016.6	0.0	3016.6
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	13213.4	0.0	13213.4
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	16230.0	0.0	16230.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.0	1.6
10°-20°	689.6	4.2
20°-30°	1137.1	7.0
30°-40°	1682.0	10.4
40°-50°	2347.7	14.5
50°-60°	3056.8	18.8
60°-70°	3756.7	23.1
70°-80°	2944.8	18.1
80°-90°	356.4	2.2
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°	16230.0	100.0
0°-180°	16230.0	100.0

**Coefficient of Utilization**

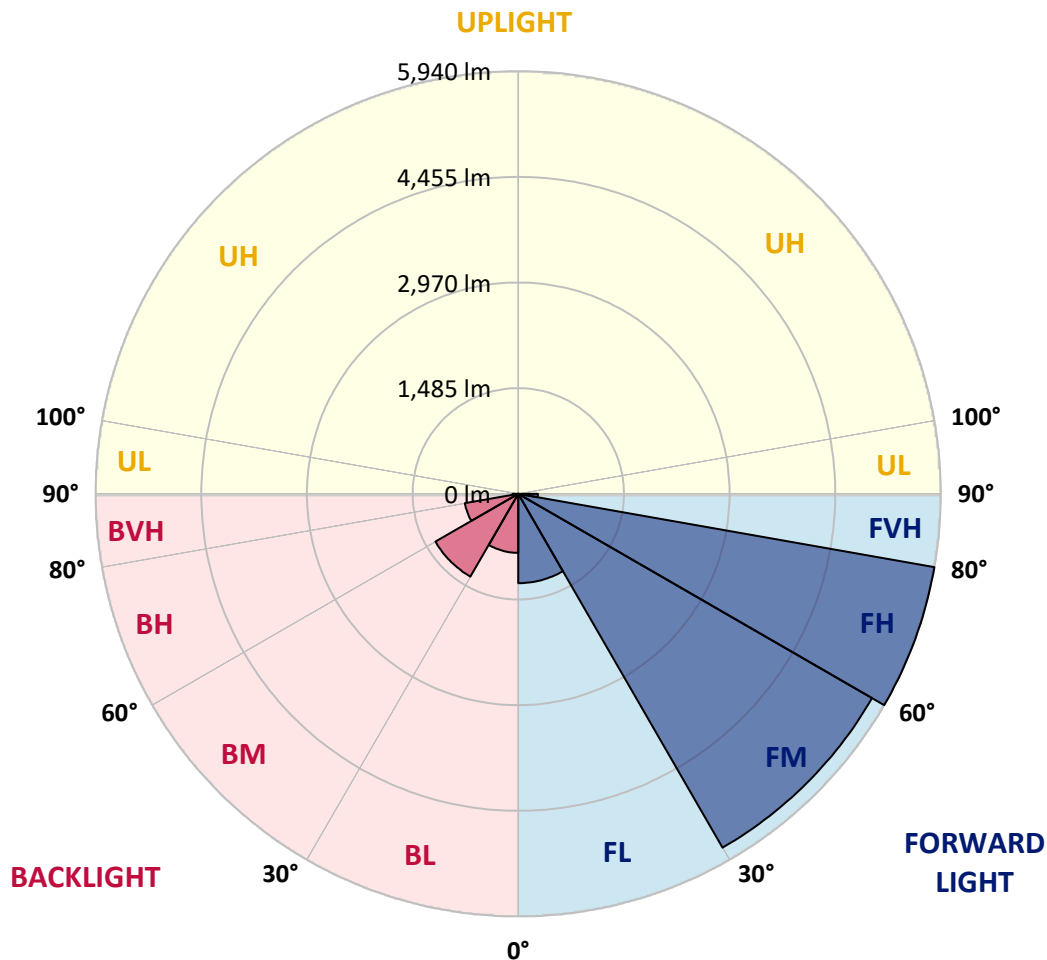


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1255.7	7.7			
FM (30°-60°)	5742.5	35.4			
FH (60°-80°)	5939.6	36.6			G3/7500
FVH (80°-90°)	275.5	1.7			G3/500
BL (0°-30°)	830.0	5.1	B2/1000		
BM (30°-60°)	1344.0	8.3	B2/2500		
BH (60°-80°)	761.8	4.7	B2/1000		G2/1000
BVH (80°-90°)	80.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2862.6	2862.6	2862.6	2862.6	2862.6	2862.6	2862.6	2862.6	2862.6	2862.6	2862.6
2.5°	2769.4	2762.9	2771.1	2782.6	2795.2	2812.2	2822.1	2826.4	2843.4	2850.0	2864.3
5°	2641.2	2637.9	2651.6	2671.3	2699.3	2738.7	2770.5	2776.6	2821.5	2853.3	2882.4
7.5°	2548.0	2548.0	2563.9	2587.4	2618.7	2671.9	2716.8	2725.0	2801.2	2869.7	2923.5
10°	2474.0	2476.7	2495.3	2523.3	2560.0	2616.5	2676.2	2685.6	2795.7	2908.1	2993.6
12.5°	2424.6	2431.2	2448.2	2473.4	2518.9	2587.4	2663.1	2675.7	2807.3	2962.9	3078.1
15°	2455.9	2466.8	2468.5	2478.9	2504.1	2578.7	2670.8	2683.9	2831.9	3018.9	3174.0
17.5°	2592.9	2596.8	2579.8	2557.8	2545.8	2593.5	2693.8	2707.5	2861.5	3074.2	3266.1
20°	2801.2	2799.0	2762.3	2703.1	2641.7	2649.4	2731.6	2745.9	2901.5	3123.0	3358.2
22.5°	3064.4	3056.7	3000.2	2891.1	2786.4	2742.6	2797.9	2810.0	2961.8	3192.6	3456.9
25°	3383.4	3366.4	3291.9	3145.5	2991.4	2878.5	2897.7	2909.2	3049.6	3270.5	3547.3
27.5°	3720.0	3703.0	3608.2	3431.1	3226.1	3050.1	3035.3	3045.2	3149.3	3328.0	3614.2
30°	4071.9	4053.8	3967.2	3768.8	3474.9	3227.7	3163.6	3167.4	3219.5	3359.3	3669.0
32.5°	4425.5	4408.5	4311.5	4081.2	3745.2	3418.5	3256.2	3251.3	3261.7	3391.6	3730.9
35°	4784.0	4790.6	4677.1	4422.2	4044.5	3630.6	3365.9	3355.4	3332.4	3458.0	3818.7
37.5°	5167.7	5163.4	5016.4	4750.0	4357.5	3860.9	3523.2	3521.5	3442.1	3583.5	3956.3
40°	5424.3	5427.0	5337.7	5085.5	4673.8	4115.8	3724.9	3721.1	3616.9	3771.5	4136.6
42.5°	5524.6	5542.7	5565.7	5405.7	5004.9	4411.2	3965.6	3960.1	3860.9	4041.2	4348.8
45°	5531.7	5567.9	5710.4	5690.2	5340.4	4749.5	4273.1	4257.8	4186.5	4399.7	4602.0
47.5°	5470.3	5507.6	5744.4	5859.6	5640.3	5106.3	4632.7	4620.7	4559.3	4848.1	4876.1
50°	5336.0	5371.7	5674.3	5942.3	5887.0	5449.5	5047.1	5015.3	4982.5	5366.2	5189.7
52.5°	5084.4	5152.9	5580.5	5962.1	6034.4	5754.3	5482.9	5462.1	5480.2	5912.7	5503.8
55°	4488.5	4565.3	5338.8	5945.6	6143.5	6010.3	5918.8	5917.7	6011.4	6486.1	5840.9
57.5°	4154.7	4209.0	4846.5	5917.7	6272.9	6264.7	6350.2	6360.6	6543.1	7110.5	6193.9
60°	3966.1	4023.1	4597.1	5814.1	6473.5	6593.6	6790.4	6811.2	7083.6	7801.8	6618.8
62.5°	3794.5	3857.0	4442.5	5603.0	6709.8	7063.9	7317.7	7336.4	7656.0	8512.2	7029.4
65°	3501.3	3572.0	4216.1	5464.3	6924.7	7677.3	7988.2	8000.8	8313.2	9256.7	7343.5
67.5°	3086.8	3151.5	3789.1	5157.9	7083.6	8422.3	8879.5	8886.6	8965.0	9782.4	7504.1
70°	2602.8	2627.5	3180.6	4525.3	6895.6	9119.1	9856.4	9858.0	9559.3	10118.9	7477.8
72.5°	1828.7	1886.9	2309.0	3425.6	5925.9	9034.1	10363.4	10382.1	9835.5	9949.0	6880.3
75°	1121.6	1183.0	1448.3	2076.0	3759.5	7105.0	9575.1	9704.5	9317.5	8870.7	5620.5
77.5°	749.9	772.9	945.1	1210.4	1703.2	4087.8	7361.6	7605.0	7740.4	6469.1	3594.4
80°	418.3	462.1	626.6	752.1	757.6	1624.3	4414.0	4471.0	4306.5	2575.9	1109.0
82.5°	221.5	245.6	418.3	441.8	413.3	543.8	1645.1	1646.7	1375.9	690.7	329.5
85°	171.6	191.9	286.7	269.7	211.1	241.2	542.7	572.3	468.2	282.9	107.4
87.5°	85.5	106.3	194.6	171.0	82.8	69.1	194.1	207.2	184.7	110.7	38.9
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°	2862.6	2862.6	2862.6	2862.6	2862.6	2862.6	2862.6	2862.6	2862.6	2862.6	2862.6
2.5°	2869.7	2874.7	2880.7	2874.1	2871.9	2863.2	2848.4	2845.1	2837.4	2838.0	2842.3
5°	2895.0	2903.2	2899.9	2874.7	2844.5	2802.3	2758.5	2721.2	2696.5	2694.9	2693.2
7.5°	2943.2	2948.7	2922.9	2851.1	2766.7	2669.1	2577.0	2496.4	2447.6	2435.6	2432.8
10°	3018.9	3017.8	2947.0	2802.3	2634.0	2459.7	2311.7	2199.9	2134.6	2115.4	2110.5
12.5°	3103.3	3090.7	2955.3	2713.5	2446.6	2204.8	2017.3	1892.9	1824.9	1803.0	1797.5
15°	3190.4	3159.2	2935.0	2580.9	2216.3	1930.2	1733.4	1618.2	1581.5	1569.5	1567.3
17.5°	3271.6	3211.3	2876.9	2401.1	1953.7	1656.6	1503.1	1457.1	1465.8	1481.7	1482.3
20°	3351.1	3246.4	2783.7	2174.1	1676.9	1431.3	1379.2	1413.2	1454.9	1487.2	1491.6
22.5°	3429.4	3271.0	2663.6	1912.1	1429.1	1304.7	1341.4	1403.4	1451.0	1486.1	1492.2
25°	3495.2	3277.1	2498.1	1632.5	1257.0	1257.0	1323.3	1382.0	1429.1	1463.7	1469.7
27.5°	3519.3	3236.5	2264.6	1373.8	1170.4	1235.1	1298.1	1346.9	1386.9	1423.6	1430.2
30°	3528.7	3161.4	1994.8	1166.0	1134.7	1211.5	1264.1	1305.8	1343.6	1378.1	1384.2
32.5°	3530.3	3070.9	1708.7	1048.1	1110.1	1186.8	1221.9	1258.6	1299.2	1312.9	1315.1
35°	3540.7	2964.0	1407.2	987.8	1087.1	1163.8	1191.8	1218.1	1152.3	1157.2	1161.6
37.5°	3570.9	2858.2	1155.0	953.8	1072.3	1151.7	1185.2	1089.8	1038.3	1026.2	1024.6
40°	3627.3	2745.3	968.1	926.4	1066.8	1157.8	1143.0	1017.4	928.6	862.3	852.4
42.5°	3705.7	2623.6	848.6	908.3	1070.6	1186.8	1084.3	947.8	800.4	757.6	752.1
45°	3794.0	2495.9	783.9	895.7	1083.8	1209.3	1072.3	855.2	740.6	708.3	705.5
47.5°	3879.5	2339.7	750.5	890.3	1101.9	1191.2	1021.3	826.7	712.1	695.1	696.7
50°	3977.6	2198.8	730.2	884.2	1117.7	1179.7	963.7	811.9	701.1	722.0	743.9
52.5°	4060.4	2053.0	712.1	872.2	1123.8	1159.4	948.9	814.6	701.1	741.1	762.0
55°	4158.5	1942.8	691.3	846.9	1112.3	1101.9	938.5	831.0	709.4	684.1	686.3
57.5°	4285.2	1906.6	668.2	807.5	1073.9	1018.0	933.6	846.9	704.4	688.5	694.0
60°	4460.6	1945.0	658.9	755.9	1014.1	952.2	934.1	838.7	669.9	642.5	643.0
62.5°	4627.8	1987.7	658.4	723.6	940.7	893.5	921.5	811.9	652.3	636.4	642.5
65°	4682.6	1944.4	632.1	687.4	857.9	823.4	898.5	783.4	639.2	615.1	614.0
67.5°	4609.1	1810.1	578.9	628.8	763.1	741.7	868.3	749.4	618.4	598.6	595.3
70°	4391.0	1510.3	513.1	551.5	655.1	649.6	820.6	709.9	590.4	573.4	559.1
72.5°	3803.9	1076.1	432.5	458.8	533.4	550.9	754.9	658.4	550.9	514.2	492.3
75°	3124.1	796.5	355.2	360.7	405.1	452.8	664.4	598.1	504.3	441.8	424.8
77.5°	1913.2	487.3	282.9	285.1	290.5	361.3	547.1	530.6	445.1	368.4	356.3
80°	619.4	265.9	204.5	214.9	198.4	264.8	423.2	451.7	382.1	308.1	294.9
82.5°	235.7	155.1	138.1	145.3	137.6	177.6	308.6	361.8	313.0	253.3	206.1
85°	114.0	87.7	81.7	91.5	85.0	91.0	197.3	266.4	237.4	165.0	153.5
87.5°	40.6	38.9	31.2	42.2	36.2	32.3	60.3	134.3	156.8	113.5	101.4
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)