

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: P383069

Luminaire Tested: **GLEON-SA4A-735-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383069
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-SA4A-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17904.3 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

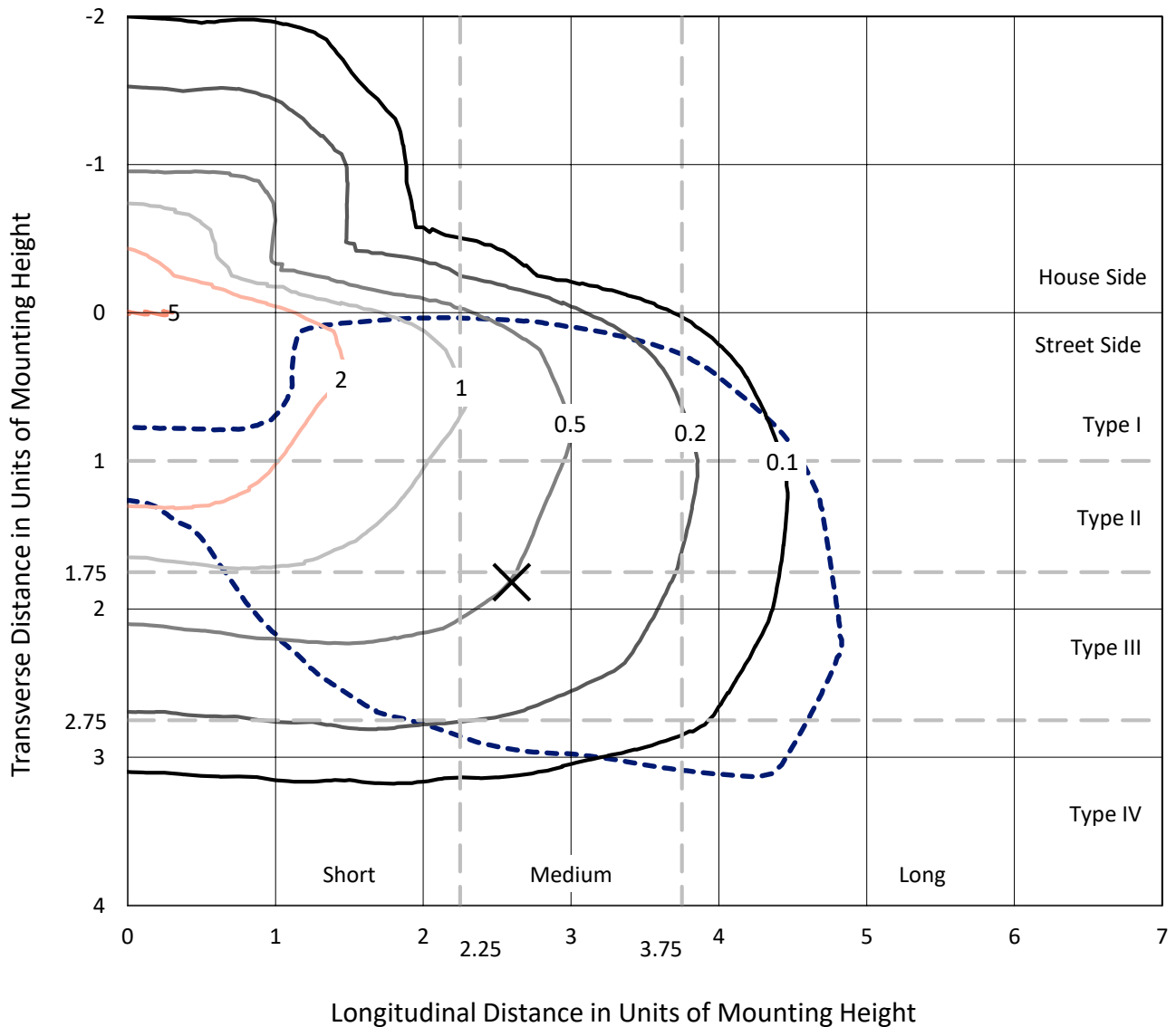
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383069
 CATALOG NUMBER: GLEON-SA4A-735-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

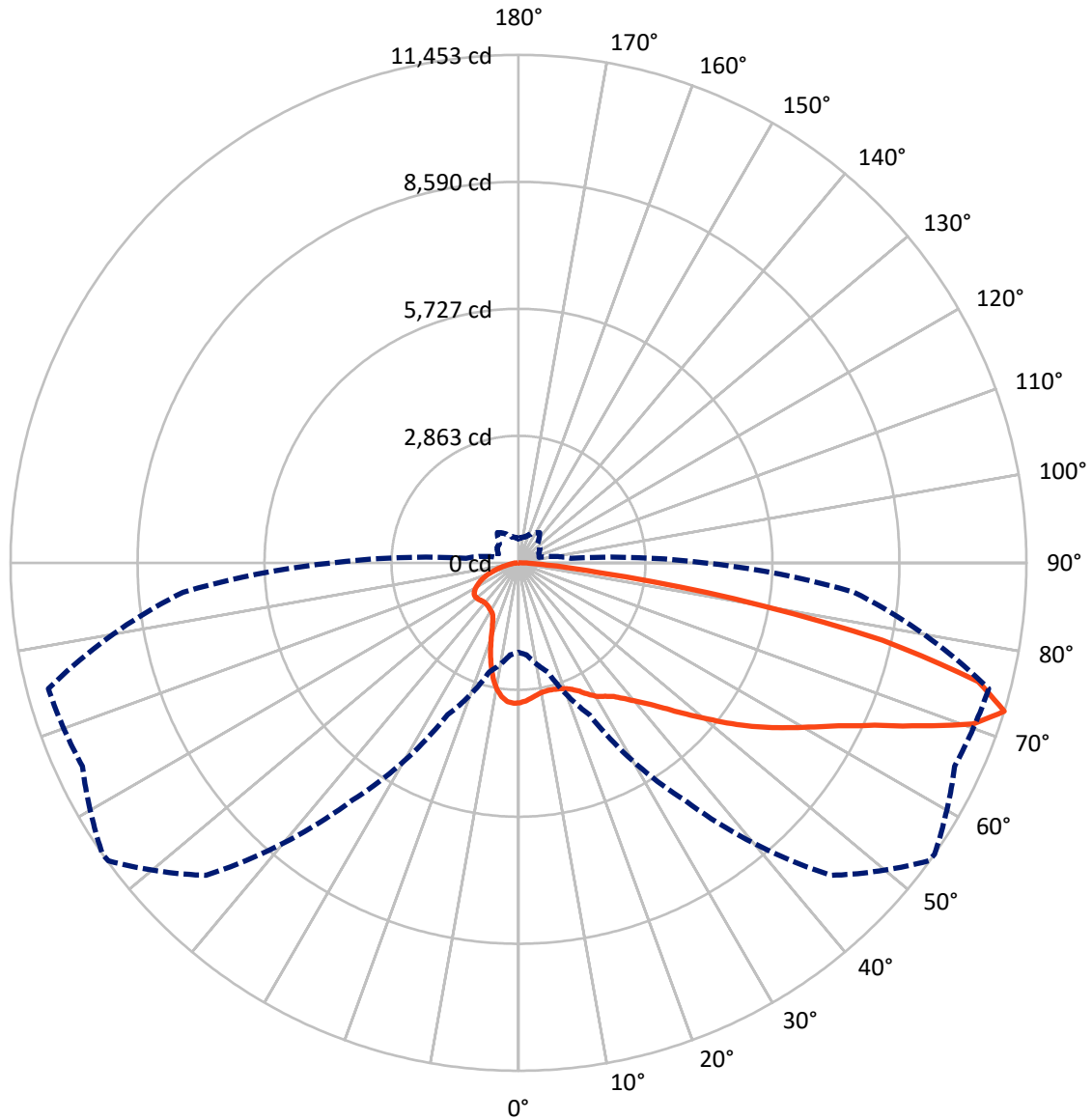
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Medium - N/A

REPORT NUMBER: P383069
CATALOG NUMBER: GLEON-SA4A-735-U-T3R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P383069
 CATALOG NUMBER: GLEON-SA4A-735-U-T3R

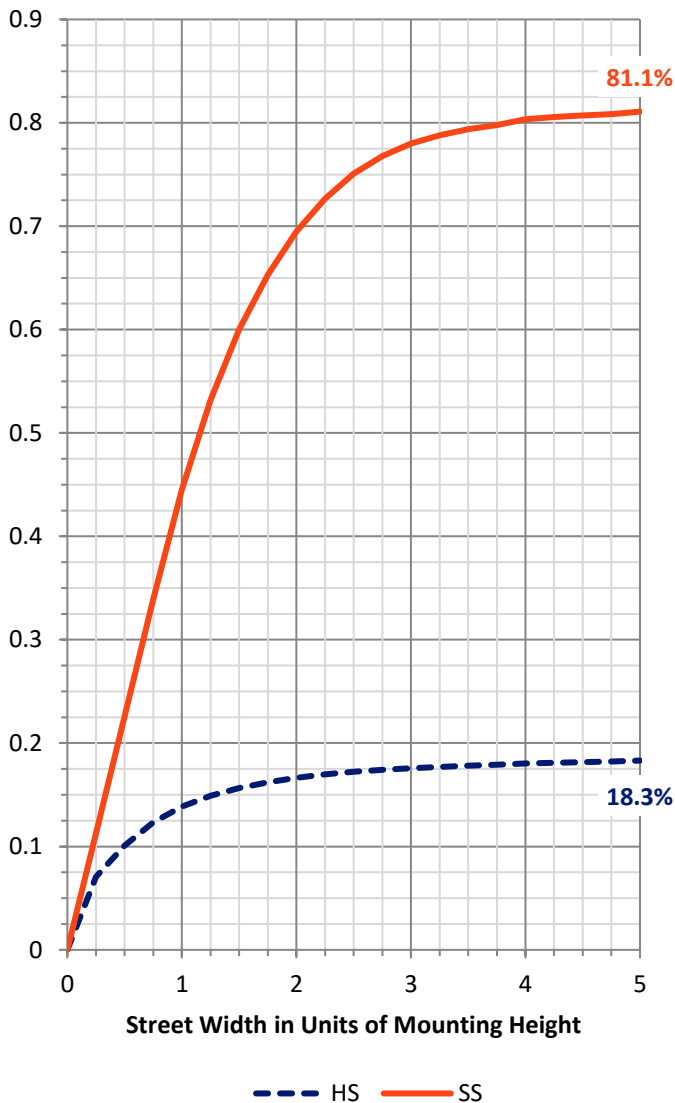
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3327.8	0.0	3327.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	14576.5	0.0	14576.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	17904.3	0.0	17904.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.8	1.6
10°-20°	760.8	4.2
20°-30°	1254.4	7.0
30°-40°	1855.5	10.4
40°-50°	2589.9	14.5
50°-60°	3372.1	18.8
60°-70°	4144.2	23.1
70°-80°	3248.6	18.1
80°-90°	393.1	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°	17904.3	100.0
0°-180°	17904.3	100.0



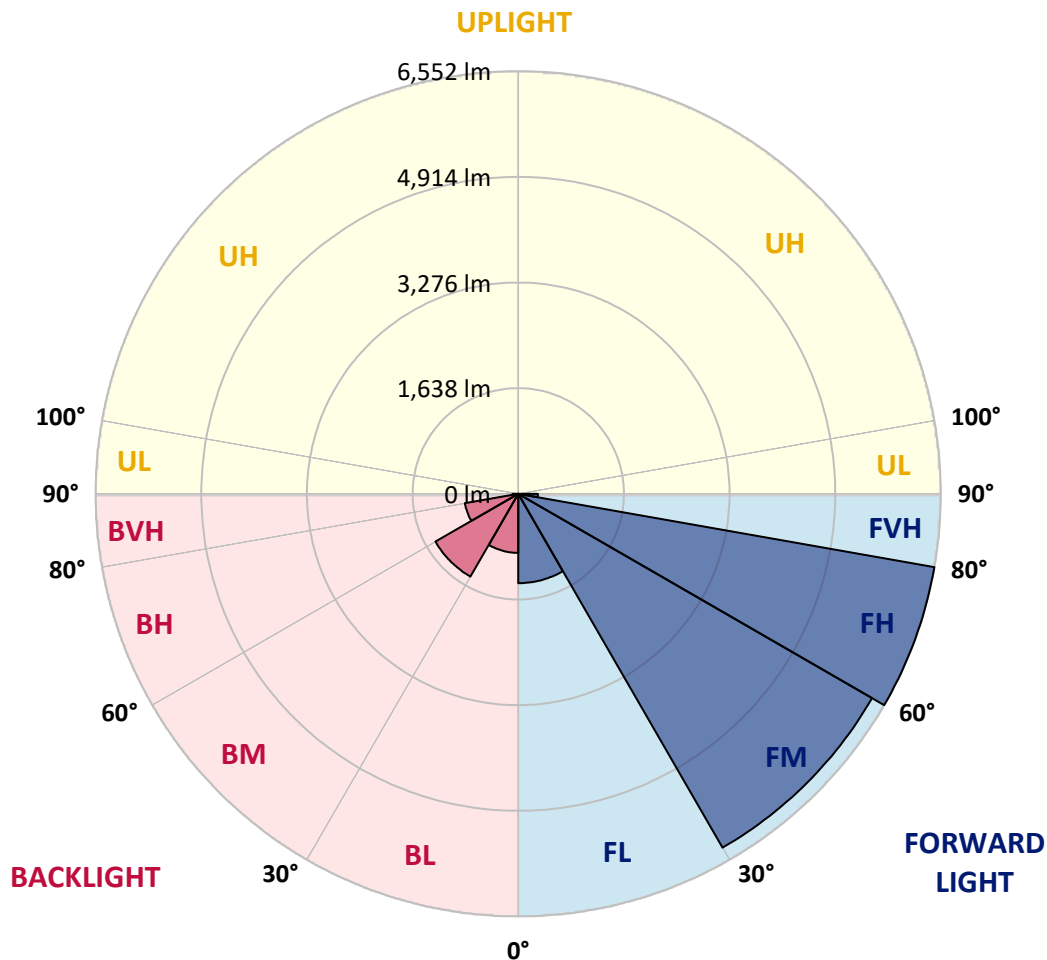
REPORT NUMBER: P383069
 CATALOG NUMBER: GLEON-SA4A-735-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1385.3	7.7			
FM (30°-60°)	6334.9	35.4			
FH (60°-80°)	6552.4	36.6			G3/7500
FVH (80°-90°)	303.9	1.7			G3/500
BL (0°-30°)	915.6	5.1	B2/1000		
BM (30°-60°)	1482.6	8.3	B2/2500		
BH (60°-80°)	840.4	4.7	B2/1000		G2/1000
BVH (80°-90°)	89.2	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





REPORT NUMBER: P383069

CATALOG NUMBER: GLEON-SA4A-735-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3157.9	3157.9	3157.9	3157.9	3157.9	3157.9	3157.9	3157.9	3157.9	3157.9	3157.9
2.5°	3055.1	3047.8	3057.0	3069.6	3083.5	3102.3	3113.2	3118.0	3136.8	3144.1	3159.7
5°	2913.6	2910.0	2925.2	2946.9	2977.7	3021.3	3056.3	3063.0	3112.6	3147.7	3179.7
7.5°	2810.9	2810.9	2828.4	2854.4	2888.8	2947.5	2997.1	3006.2	3090.2	3165.8	3225.1
10°	2729.2	2732.2	2752.7	2783.7	2824.1	2886.4	2952.4	2962.6	3084.2	3208.2	3302.4
12.5°	2674.8	2682.0	2700.7	2728.6	2778.8	2854.4	2937.8	2951.7	3096.8	3268.6	3395.6
15°	2709.2	2721.3	2723.1	2734.7	2762.4	2844.7	2946.3	2960.8	3124.0	3330.3	3501.4
17.5°	2860.4	2864.6	2845.9	2821.8	2808.4	2861.0	2971.6	2986.8	3156.7	3391.4	3603.0
20°	3090.2	3087.8	3047.3	2982.0	2914.3	2922.7	3013.4	3029.1	3200.9	3445.2	3704.6
22.5°	3380.5	3372.0	3309.7	3189.4	3073.9	3025.5	3086.6	3099.9	3267.4	3522.0	3813.5
25°	3732.4	3713.7	3631.5	3470.0	3300.1	3175.5	3196.6	3209.4	3364.2	3607.9	3913.2
27.5°	4103.7	4085.0	3980.4	3785.1	3558.9	3364.7	3348.4	3359.3	3474.2	3671.3	3987.0
30°	4492.0	4472.1	4376.5	4157.6	3833.4	3560.7	3489.9	3494.1	3551.6	3705.8	4047.5
32.5°	4882.1	4863.3	4756.3	4502.3	4131.6	3771.2	3592.1	3586.7	3598.2	3741.5	4115.9
35°	5277.6	5284.8	5159.7	4878.4	4461.7	4005.2	3713.1	3701.6	3676.2	3814.7	4212.6
37.5°	5700.9	5696.0	5534.0	5240.0	4807.1	4259.1	3886.7	3884.8	3797.2	3953.2	4364.4
40°	5983.9	5986.9	5888.3	5610.2	5156.0	4540.4	4109.1	4105.0	3990.1	4160.6	4563.4
42.5°	6094.6	6114.5	6139.9	5963.3	5521.3	4866.3	4374.6	4368.6	4259.1	4458.1	4797.4
45°	6102.4	6142.3	6299.6	6277.1	5891.4	5239.5	4713.9	4697.0	4618.4	4853.6	5076.7
47.5°	6034.7	6075.8	6337.0	6464.0	6222.2	5633.2	5110.7	5097.3	5029.6	5348.3	5379.1
50°	5886.5	5925.9	6259.6	6555.4	6494.3	6011.7	5567.9	5532.7	5496.5	5919.8	5725.0
52.5°	5608.9	5684.5	6156.2	6577.1	6656.9	6347.9	6048.6	6025.6	6045.6	6522.7	6071.5
55°	4951.5	5036.2	5889.5	6559.0	6777.3	6630.4	6529.3	6528.1	6631.6	7155.2	6443.5
57.5°	4583.3	4643.2	5346.5	6528.1	6920.0	6911.0	7005.2	7016.8	7218.2	7844.1	6832.9
60°	4375.3	4438.2	5071.3	6413.9	7141.3	7273.8	7490.9	7513.9	7814.4	8606.7	7301.6
62.5°	4186.0	4254.9	4900.8	6181.0	7402.0	7792.7	8072.6	8093.2	8445.8	9390.4	7754.6
65°	3862.5	3940.4	4651.0	6028.0	7639.1	8469.4	8812.3	8826.1	9170.8	10211.6	8101.1
67.5°	3405.3	3476.6	4179.9	5690.0	7814.4	9291.2	9795.5	9803.4	9889.9	10791.5	8278.3
70°	2871.3	2898.5	3508.7	4992.1	7607.0	10059.8	10873.2	10875.0	10545.4	11162.8	8249.2
72.5°	2017.4	2081.5	2547.1	3779.0	6537.2	9966.1	11432.6	11453.1	10850.2	10975.4	7590.1
75°	1237.3	1305.0	1597.7	2290.1	4147.2	7838.0	10562.9	10705.7	10278.7	9785.9	6200.4
77.5°	827.3	852.6	1042.6	1335.3	1878.9	4509.5	8121.0	8389.5	8538.9	7136.5	3965.2
80°	461.4	509.8	691.2	829.7	835.8	1791.8	4869.4	4932.3	4750.8	2841.7	1223.4
82.5°	244.3	270.9	461.4	487.4	456.0	599.9	1814.8	1816.6	1517.9	762.0	363.5
85°	189.3	211.6	316.3	297.5	232.8	266.0	598.7	631.3	516.4	312.1	118.5
87.5°	94.4	117.3	214.7	188.6	91.3	76.2	214.1	228.6	203.8	122.1	42.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P383069
 CATALOG NUMBER: GLEON-SA4A-735-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3157.9	3157.9	3157.9	3157.9	3157.9	3157.9	3157.9	3157.9	3157.9	3157.9	3157.9
2.5°	3165.8	3171.3	3177.9	3170.6	3168.2	3158.5	3142.2	3138.6	3130.1	3130.7	3135.6
5°	3193.6	3202.7	3199.0	3171.3	3138.0	3091.4	3043.1	3001.9	2974.7	2972.8	2971.1
7.5°	3246.8	3252.9	3224.5	3145.3	3052.1	2944.4	2842.9	2753.9	2700.2	2686.9	2683.8
10°	3330.3	3329.1	3251.1	3091.4	2905.8	2713.5	2550.2	2426.8	2354.9	2333.7	2328.2
12.5°	3423.4	3409.6	3260.1	2993.4	2699.0	2432.3	2225.5	2088.2	2013.2	1988.9	1982.9
15°	3519.6	3485.1	3237.8	2847.1	2444.9	2129.2	1912.2	1785.2	1744.7	1731.4	1729.0
17.5°	3609.1	3542.6	3173.7	2648.8	2155.3	1827.5	1658.2	1607.4	1617.1	1634.6	1635.2
20°	3696.8	3581.2	3070.8	2398.4	1849.9	1579.0	1521.5	1559.0	1605.0	1640.6	1645.5
22.5°	3783.2	3608.4	2938.4	2109.3	1576.6	1439.2	1479.8	1548.1	1600.8	1639.4	1646.1
25°	3855.8	3615.1	2755.8	1800.9	1386.7	1386.7	1459.8	1524.6	1576.6	1614.7	1621.3
27.5°	3882.4	3570.3	2498.1	1515.4	1291.1	1362.5	1432.0	1485.8	1530.0	1570.5	1577.8
30°	3892.7	3487.5	2200.6	1286.3	1251.8	1336.5	1394.5	1440.5	1482.2	1520.3	1527.0
32.5°	3894.5	3387.8	1885.0	1156.2	1224.6	1309.3	1347.9	1388.5	1433.2	1448.4	1450.8
35°	3906.0	3269.8	1552.3	1089.7	1199.2	1283.9	1314.7	1343.8	1271.2	1276.6	1281.4
37.5°	3939.2	3153.1	1274.2	1052.3	1182.9	1270.5	1307.4	1202.3	1145.3	1132.1	1130.2
40°	4001.6	3028.6	1067.9	1022.0	1176.8	1277.2	1260.8	1122.4	1024.4	951.3	940.4
42.5°	4088.0	2894.3	936.1	1002.1	1181.0	1309.3	1196.2	1045.6	882.9	835.8	829.7
45°	4185.4	2753.4	864.8	988.2	1195.5	1334.1	1182.9	943.4	817.0	781.3	778.3
47.5°	4279.7	2581.0	827.9	982.1	1215.5	1314.1	1126.6	912.0	785.6	766.8	768.6
50°	4388.0	2425.6	805.5	975.4	1233.1	1301.4	1063.2	895.6	773.5	796.5	820.6
52.5°	4479.3	2264.8	785.6	962.1	1239.7	1279.0	1046.8	898.7	773.5	817.6	840.6
55°	4587.5	2143.2	762.6	934.3	1227.0	1215.5	1035.3	916.8	782.5	754.7	757.2
57.5°	4727.2	2103.2	737.1	890.7	1184.6	1123.0	1029.8	934.3	777.1	759.6	765.6
60°	4920.7	2145.6	726.9	833.9	1118.8	1050.4	1030.5	925.2	739.0	708.7	709.4
62.5°	5105.2	2192.8	726.3	798.2	1037.7	985.8	1016.6	895.6	719.6	702.1	708.7
65°	5165.7	2145.0	697.3	758.4	946.5	908.4	991.2	864.2	705.1	678.5	677.3
67.5°	5084.7	1996.9	638.6	693.6	841.8	818.2	957.9	826.7	682.2	660.4	656.7
70°	4844.0	1666.1	566.0	608.4	722.7	716.6	905.3	783.2	651.3	632.5	616.9
72.5°	4196.2	1187.1	477.1	506.2	588.4	607.7	832.7	726.3	607.7	567.2	543.1
75°	3446.4	878.7	391.9	398.0	446.9	499.5	732.9	659.8	556.3	487.4	468.7
77.5°	2110.5	537.6	312.1	314.5	320.5	398.5	603.5	585.4	491.0	406.3	393.1
80°	683.4	293.3	225.5	237.1	218.9	292.1	466.9	498.3	421.5	339.8	325.4
82.5°	260.0	171.1	152.4	160.2	151.7	195.9	340.5	399.2	345.3	279.4	227.4
85°	125.8	96.8	90.1	101.0	93.7	100.4	217.7	293.9	261.9	182.0	169.4
87.5°	44.7	42.9	34.5	46.6	39.9	35.7	66.5	148.1	173.0	125.2	111.9
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)