

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: P383211

Luminaire Tested: **GLEON-SA5B-735-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5B-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26767.1 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

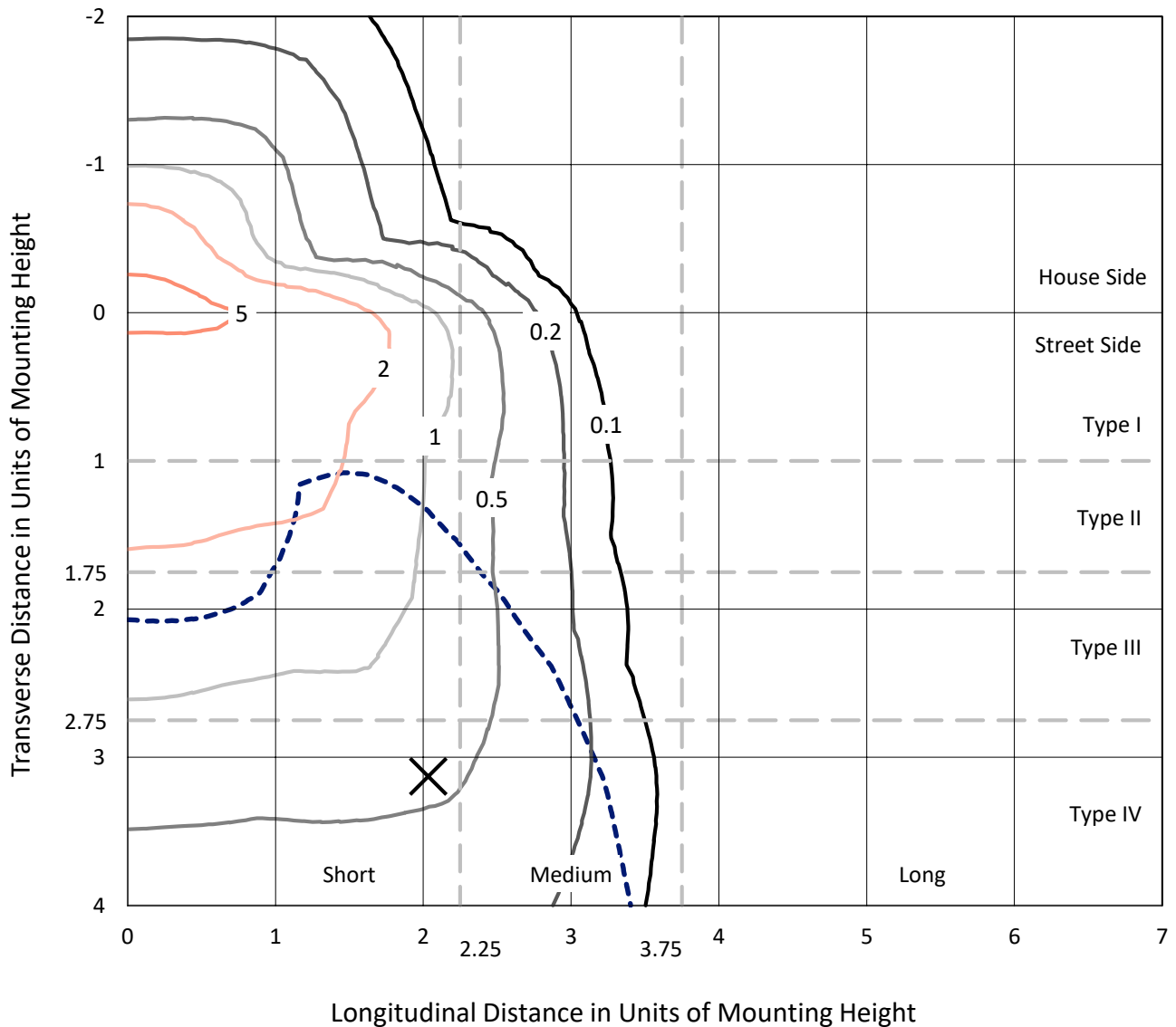
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

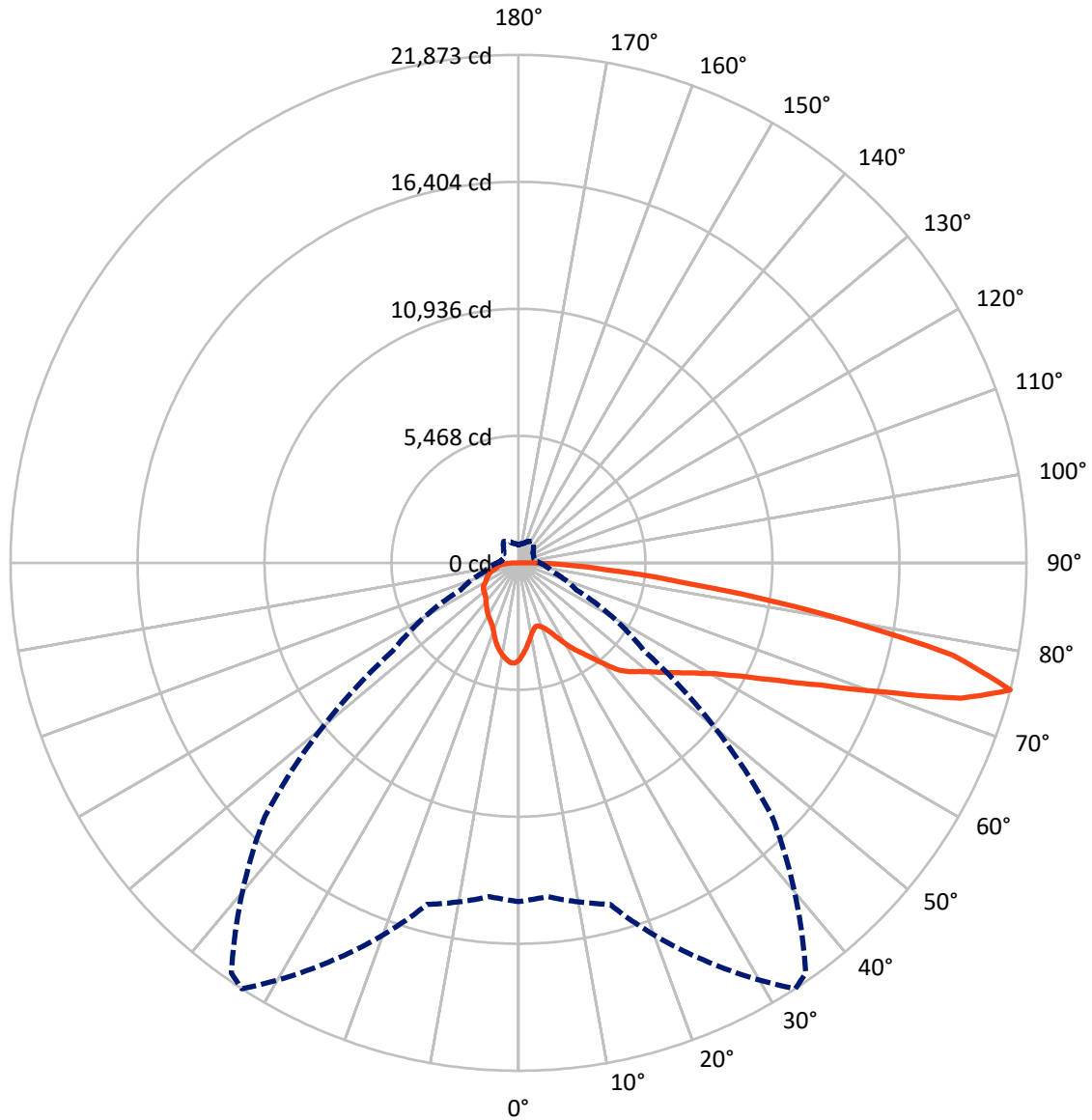
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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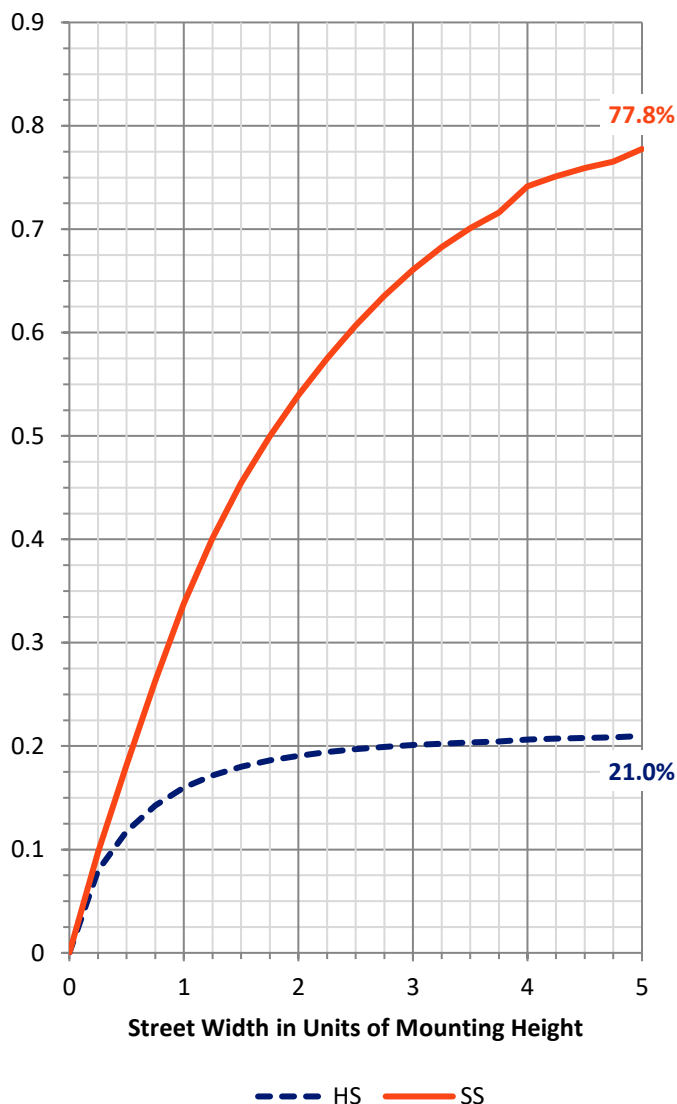
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5747.6	0.0	5747.6
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	21019.5	0.0	21019.5
	% Fixture	78.5	0.0	78.5
Total	Lumens	26767.1	0.0	26767.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.4	1.4
10°-20°	1024.8	3.8
20°-30°	1673.7	6.3
30°-40°	2492.5	9.3
40°-50°	3574.9	13.4
50°-60°	4907.7	18.3
60°-70°	6144.3	23.0
70°-80°	5558.4	20.8
80°-90°	1012.5	3.8
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°	26767.1	100.0
0°-180°	26767.1	100.0

Coefficient of Utilization



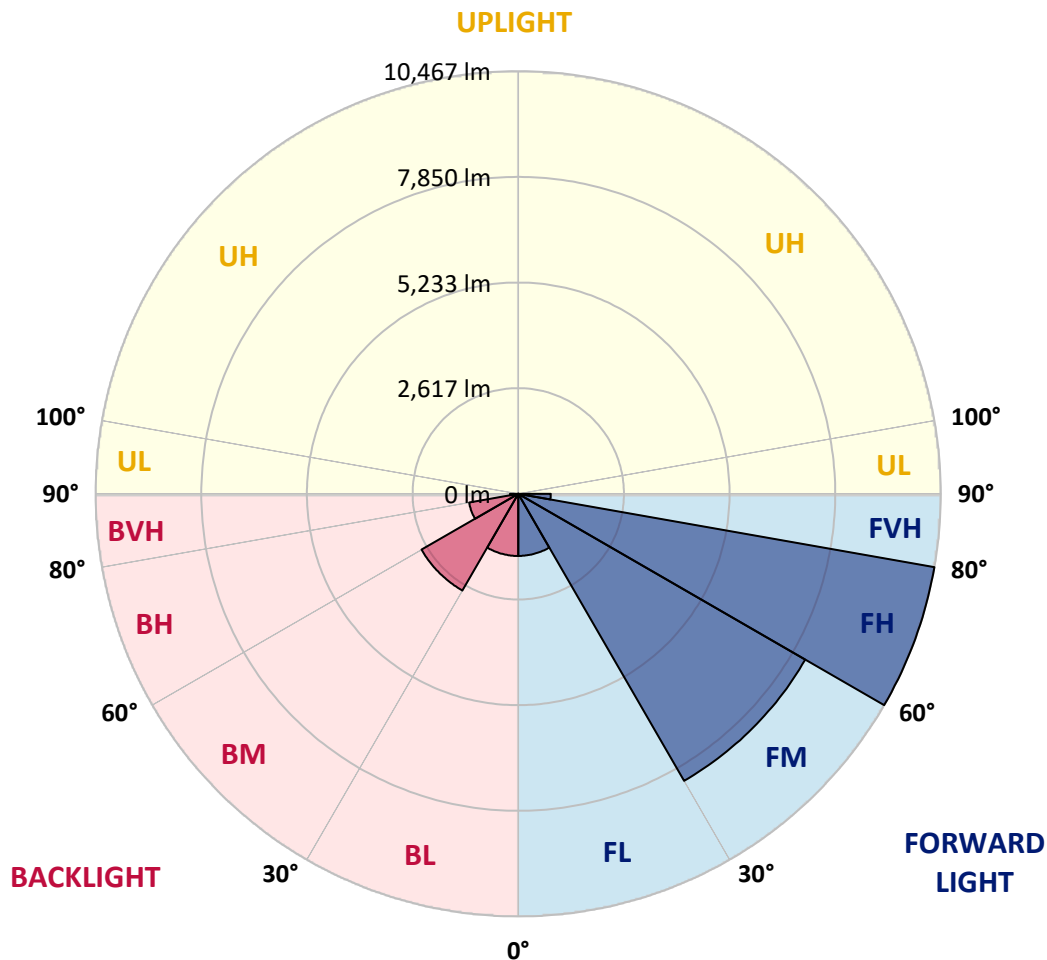
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1537.4	5.7			
FM (30°-60°)	8208.9	30.7			
FH (60°-80°)	10466.9	39.1			G4/12000
FVH (80°-90°)	806.4	3.0			G5
BL (0°-30°)	1539.5	5.8	B3/2500		
BM (30°-60°)	2766.2	10.3	B3/5000		
BH (60°-80°)	1235.8	4.6	B3/2500		G3/2500
BVH (80°-90°)	206.1	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	4183.9	4183.9	4183.9	4183.9	4183.9	4183.9	4183.9	4183.9	4183.9	4183.9	4183.9
2.5°	3885.2	3870.4	3898.2	3901.9	3925.9	3935.1	3968.4	4020.2	4062.8	4111.8	4156.1
5°	3532.9	3522.7	3561.6	3589.3	3642.1	3664.2	3742.8	3852.9	3950.9	4061.8	4162.6
7.5°	3198.2	3192.7	3236.1	3299.0	3360.0	3390.6	3526.5	3686.4	3850.1	4029.4	4183.9
10°	2916.2	2914.3	2956.0	3017.9	3107.6	3141.8	3317.5	3528.3	3757.6	4004.4	4219.9
12.5°	2758.1	2764.6	2784.0	2835.7	2919.0	2953.2	3148.3	3396.0	3679.9	3996.2	4272.6
15°	2797.0	2807.1	2773.8	2772.0	2831.2	2858.0	3041.0	3301.8	3624.5	4010.0	4349.4
17.5°	2962.4	2964.3	2876.4	2821.0	2857.1	2870.9	3007.8	3248.1	3592.1	4041.4	4445.5
20°	3195.5	3190.8	3035.4	2943.0	2962.4	2966.1	3054.9	3249.1	3589.3	4096.0	4570.4
22.5°	3504.3	3470.0	3261.1	3135.3	3130.7	3125.2	3176.0	3317.5	3630.0	4184.8	4719.2
25°	3907.4	3875.1	3587.5	3415.5	3378.5	3364.7	3372.0	3463.6	3710.4	4280.0	4885.6
27.5°	4355.8	4299.5	4022.0	3778.8	3702.2	3682.7	3638.3	3669.7	3798.3	4371.6	5083.5
30°	4731.2	4700.7	4458.5	4170.0	4079.3	4051.7	3935.1	3900.9	3925.0	4496.4	5333.1
32.5°	4941.1	4920.7	4773.7	4540.7	4456.6	4417.8	4253.2	4184.8	4128.3	4693.3	5671.5
35°	5195.3	5182.4	5093.7	4924.4	4799.6	4759.0	4631.4	4560.2	4415.0	4964.2	6108.9
37.5°	5519.0	5505.1	5506.9	5370.1	5221.2	5183.3	5099.2	5024.3	4786.7	5320.2	6584.1
40°	5885.1	5858.3	5848.2	5841.6	5747.4	5726.1	5681.7	5580.0	5252.7	5745.5	7052.9
42.5°	6436.2	6341.0	6137.5	6214.3	6307.7	6296.6	6332.7	6186.5	5770.5	6248.4	7510.6
45°	6967.9	6811.6	6460.2	6476.9	6681.2	6743.2	7013.2	6909.6	6331.7	6799.6	7984.0
47.5°	7210.1	7091.8	6793.1	6794.1	6996.5	7125.0	7716.8	7642.8	6921.6	7425.6	8561.9
50°	7481.0	7362.7	7094.5	7195.3	7371.9	7508.7	8396.3	8358.4	7482.8	8110.6	9254.4
52.5°	7776.8	7576.2	7406.1	7586.4	7834.2	7993.2	9076.9	8973.3	7997.9	8800.4	10050.5
55°	7780.6	7726.0	7855.5	7987.6	8358.4	8553.6	9789.7	9516.0	8417.7	9478.1	10698.6
57.5°	8223.4	8134.6	8409.3	8470.3	8954.8	9174.9	10498.9	9988.5	8844.8	9997.7	11048.2
60°	8809.6	8733.8	8958.5	9119.4	9692.7	9986.7	11256.2	10473.9	9180.4	10389.8	11031.5
62.5°	9822.1	9736.1	9733.4	9958.9	10731.0	11073.1	12105.8	10950.2	9313.5	10467.4	10560.9
65°	11304.2	11167.4	10909.4	11016.7	12165.1	12506.2	13055.5	11295.0	9137.9	10051.4	9348.7
67.5°	12746.6	12742.0	12424.9	12644.9	14058.6	14332.3	14137.3	11329.2	8589.6	8602.6	7198.1
70°	14184.4	14202.8	14149.3	14914.8	16617.0	16901.8	15289.3	10869.7	7357.1	6212.4	4312.3
72.5°	15323.5	15318.9	15588.9	17562.9	19937.3	19873.5	16260.2	9477.2	5282.2	3353.6	2061.0
75°	14585.7	14424.8	15229.2	18874.0	21872.5	21560.9	15434.4	6610.9	2741.5	1526.5	1109.6
77.5°	9513.2	9665.8	10846.6	15591.7	19131.9	18752.9	11323.7	3084.4	1291.7	1001.3	804.4
80°	3445.0	3605.9	5078.9	8831.8	13181.2	13119.3	5576.3	1267.6	873.8	756.3	586.2
82.5°	1185.3	1244.5	2003.7	3922.2	7442.1	7719.5	2097.9	720.3	635.2	536.3	401.3
85°	465.1	532.6	916.3	1887.1	3753.9	3781.6	849.8	430.8	441.9	351.4	220.0
87.5°	176.6	214.5	438.3	876.5	1714.2	1574.6	304.2	205.2	251.5	208.9	104.5
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°	4183.9	4183.9	4183.9	4183.9	4183.9	4183.9	4183.9	4183.9	4183.9	4183.9	4183.9
2.5°	4190.3	4209.8	4250.4	4278.1	4307.8	4316.0	4319.8	4327.1	4334.6	4331.8	4332.7
5°	4216.2	4254.1	4319.8	4347.5	4360.5	4345.7	4317.0	4293.9	4277.2	4268.0	4265.2
7.5°	4258.8	4312.3	4382.7	4378.0	4348.5	4282.8	4208.8	4153.3	4107.1	4090.4	4081.2
10°	4315.1	4378.0	4427.0	4374.4	4288.3	4174.6	4063.7	3977.6	3908.3	3881.5	3876.9
12.5°	4387.2	4451.0	4460.3	4348.5	4206.0	4050.7	3900.0	3786.3	3682.7	3649.4	3642.1
15°	4480.7	4540.7	4483.4	4303.1	4104.3	3895.4	3700.3	3545.8	3436.8	3396.0	3381.3
17.5°	4578.6	4635.9	4488.0	4228.2	3971.2	3711.4	3466.4	3308.2	3183.4	3136.2	3130.7
20°	4696.1	4721.9	4468.6	4121.0	3788.1	3472.8	3214.9	3066.0	2999.4	2966.1	2962.4
22.5°	4841.3	4813.5	4424.2	3975.8	3556.0	3197.3	2987.4	2918.1	2901.4	2894.0	2896.8
25°	4994.8	4909.6	4358.6	3786.3	3262.9	2921.8	2821.0	2840.4	2862.6	2859.9	2859.9
27.5°	5163.9	5007.6	4257.8	3534.8	2938.4	2696.2	2708.2	2779.4	2812.6	2811.7	2810.8
30°	5381.2	5118.7	4129.3	3232.5	2635.2	2537.2	2610.2	2697.1	2742.4	2740.5	2741.5
32.5°	5648.4	5240.7	3954.5	2895.0	2416.0	2419.7	2503.8	2589.8	2642.5	2637.9	2638.8
35°	5961.0	5377.5	3717.8	2562.1	2270.8	2326.4	2392.9	2453.0	2502.9	2496.5	2489.9
37.5°	6301.2	5511.6	3403.5	2264.4	2152.5	2239.4	2294.9	2305.0	2328.1	2311.5	2299.5
40°	6624.8	5614.3	2998.5	2020.2	2033.2	2165.5	2201.5	2160.8	2119.2	2113.7	2097.0
42.5°	6906.8	5648.4	2588.9	1825.2	1907.4	2087.8	2110.0	2024.9	1950.0	1914.9	1900.1
45°	7204.5	5660.5	2207.0	1661.5	1786.3	2018.4	2042.4	1928.8	1823.3	1747.5	1722.5
47.5°	7593.8	5747.4	1910.2	1540.4	1693.9	1972.2	2006.4	1852.0	1715.2	1607.0	1583.8
50°	8103.3	5919.3	1669.0	1447.9	1633.7	1941.7	1980.5	1777.1	1626.4	1496.0	1472.9
52.5°	8669.1	6077.4	1473.8	1373.0	1575.5	1888.1	1947.2	1723.5	1543.2	1393.4	1368.4
55°	9064.9	5956.3	1316.6	1295.4	1499.7	1811.3	1901.0	1678.2	1423.9	1293.5	1271.4
57.5°	9140.6	5542.1	1197.4	1214.9	1408.2	1715.2	1829.8	1577.4	1359.1	1250.0	1226.9
60°	8933.5	4965.1	1108.6	1141.0	1310.1	1594.1	1696.6	1506.2	1297.2	1203.8	1184.5
62.5°	8413.0	4374.4	1043.0	1074.4	1218.7	1471.0	1613.4	1431.3	1234.4	1151.1	1131.7
65°	7361.7	3672.5	980.1	1015.2	1133.6	1364.7	1538.5	1361.9	1172.4	1108.6	1090.1
67.5°	5556.9	2750.7	920.9	952.3	1057.8	1272.2	1457.2	1293.5	1112.3	1071.7	1049.4
70°	3272.2	1722.5	853.4	886.7	978.2	1176.1	1370.3	1218.7	1037.4	1018.9	990.2
72.5°	1522.8	1036.4	776.6	809.0	878.4	1047.6	1258.4	1120.7	948.7	908.0	869.1
75°	908.9	758.2	686.1	714.7	763.7	910.8	1117.9	1020.8	864.5	810.9	770.2
77.5°	679.6	579.7	586.2	616.7	656.5	797.0	990.2	942.2	799.8	758.2	730.4
80°	489.2	440.2	478.0	511.3	552.9	724.9	948.7	871.0	723.1	667.5	641.6
82.5°	326.4	316.3	359.7	393.9	434.6	634.3	891.3	762.8	617.6	547.4	490.1
85°	180.3	190.5	242.2	257.0	292.1	446.6	730.4	613.1	465.1	374.5	357.8
87.5°	74.9	87.8	130.3	125.8	155.3	266.3	480.8	369.8	295.9	221.0	172.0
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)