

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: P383241

Luminaire Tested: **GLEON-SA5C-735-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5C-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32702 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

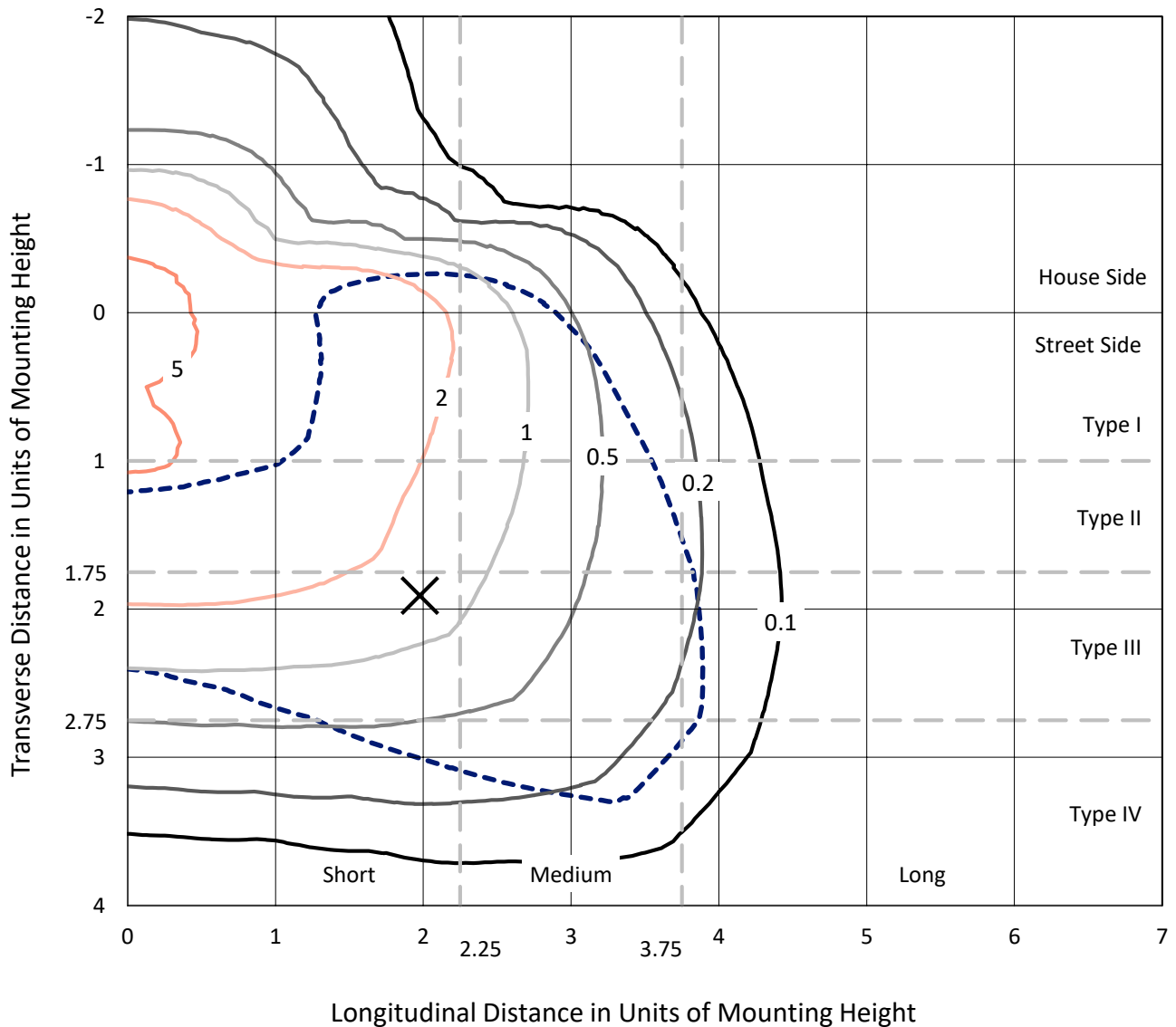
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

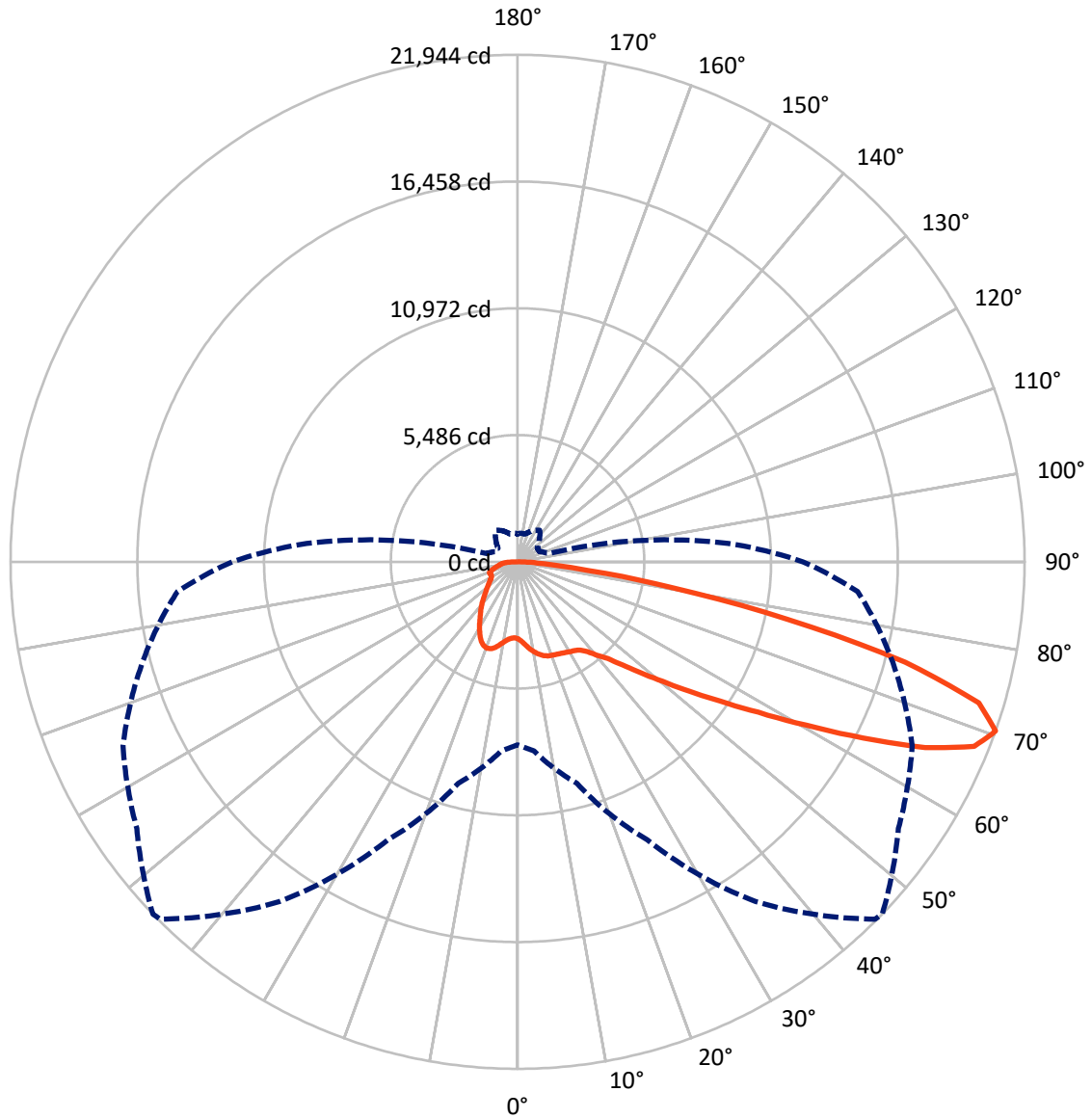
× Max cd
 - - - 1/2 Max cd



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 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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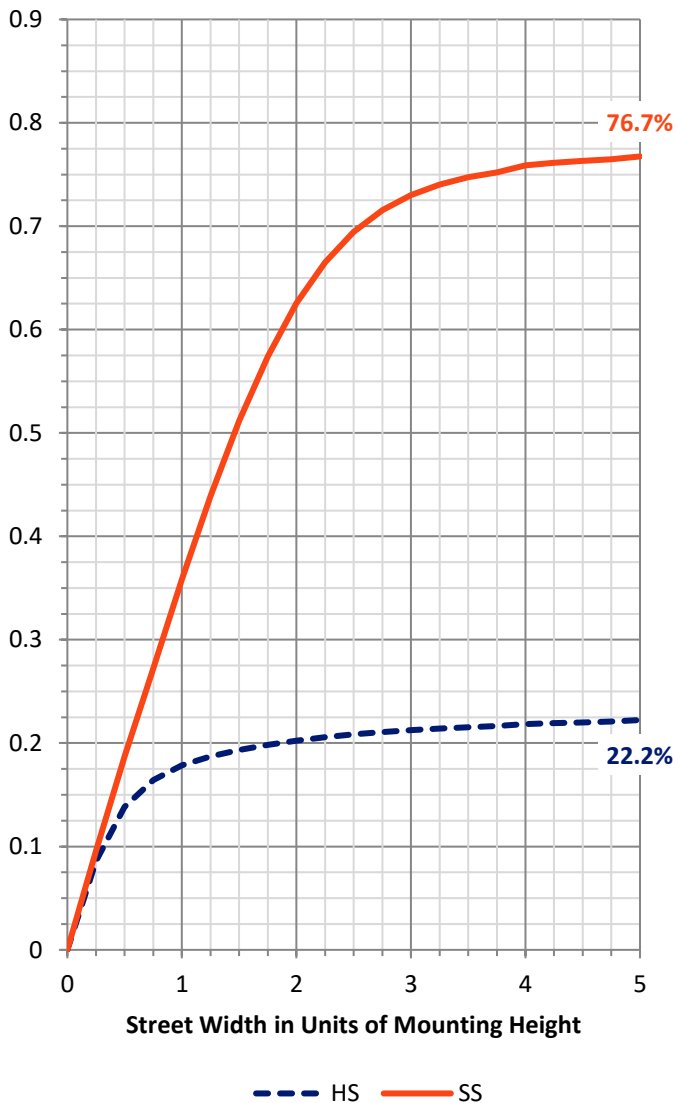
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7495.2	0.0	7495.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	25206.8	0.0	25206.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	32702.0	0.0	32702.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.6	1.0
10°-20°	1131.6	3.5
20°-30°	1886.8	5.8
30°-40°	2677.5	8.2
40°-50°	3938.4	12.0
50°-60°	6669.7	20.4
60°-70°	9467.5	29.0
70°-80°	5751.6	17.6
80°-90°	839.4	2.6
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°	32702.0	100.0
0°-180°	32702.0	100.0



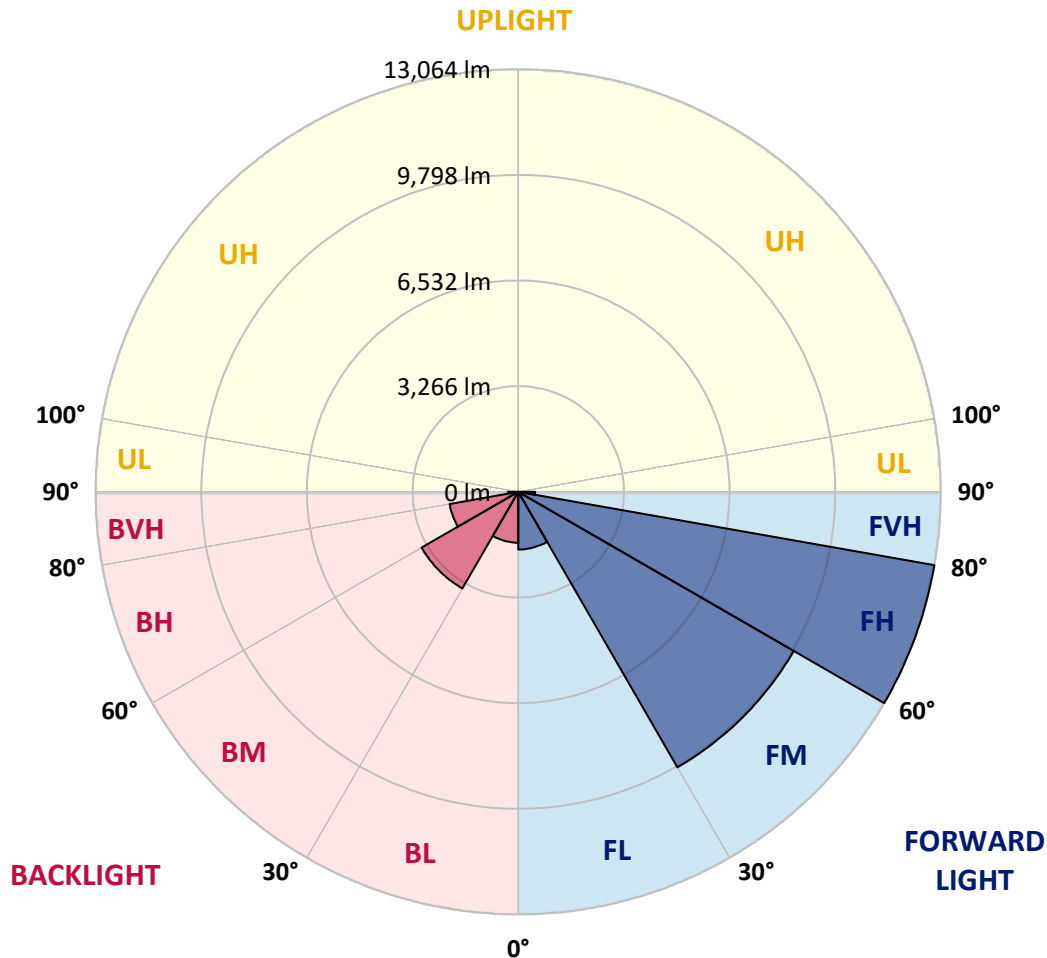
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1784.4	5.5			
FM (30°-60°)	9835.3	30.1			
FH (60°-80°)	13064.3	39.9			G5
FVH (80°-90°)	522.9	1.6			G4/750
BL (0°-30°)	1573.6	4.8	B3/2500		
BM (30°-60°)	3450.2	10.6	B3/5000		
BH (60°-80°)	2154.8	6.6	B3/2500		G3/2500
BVH (80°-90°)	316.5	1.0			G3/500
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°	35°	45°	46°	55°	65°	75°	85°
0°	3331.7	3331.7	3331.7	3331.7	3331.7	3331.7	3331.7	3331.7	3331.7	3331.7	3331.7
2.5°	3498.4	3500.7	3505.1	3494.0	3462.7	3453.7	3450.4	3417.8	3396.6	3365.3	3338.4
5°	3778.3	3780.5	3773.8	3742.4	3673.0	3621.6	3617.1	3543.2	3476.1	3404.4	3350.7
7.5°	4070.3	4073.7	4052.4	3993.1	3895.7	3806.2	3800.6	3699.9	3598.0	3489.5	3408.9
10°	4328.8	4315.4	4280.7	4197.9	4082.6	3973.0	3968.5	3863.3	3745.8	3614.9	3507.4
12.5°	4501.2	4490.0	4445.3	4344.6	4218.0	4117.3	4108.4	4011.1	3896.8	3753.6	3624.9
15°	4596.3	4604.2	4543.7	4429.6	4306.5	4221.4	4213.6	4144.2	4042.4	3898.0	3750.2
17.5°	4608.6	4615.4	4557.1	4444.1	4343.4	4285.2	4281.9	4235.9	4162.1	4023.4	3868.9
20°	4537.0	4541.5	4493.3	4400.4	4334.5	4316.5	4315.4	4295.3	4240.4	4117.3	3967.4
22.5°	4433.0	4436.3	4401.6	4334.5	4312.0	4340.1	4347.9	4340.1	4300.9	4185.6	4044.6
25°	4407.2	4404.9	4369.1	4300.9	4319.9	4379.2	4389.3	4392.6	4365.8	4265.1	4143.1
27.5°	4531.4	4523.6	4455.3	4345.7	4358.0	4429.6	4443.0	4475.4	4458.7	4370.3	4255.0
30°	4890.6	4877.2	4737.3	4515.8	4455.3	4492.2	4509.1	4560.5	4563.8	4490.0	4403.8
32.5°	5497.2	5480.5	5229.8	4833.6	4619.8	4556.0	4571.7	4648.9	4690.3	4633.2	4540.4
35°	6263.8	6244.8	5915.8	5374.1	4895.1	4678.0	4689.2	4750.8	4833.6	4753.0	4629.9
37.5°	7062.9	7017.1	6700.3	6009.8	5332.7	4938.8	4938.8	4946.6	4985.8	4817.9	4735.1
40°	7857.5	7811.6	7525.1	6757.4	5899.0	5349.5	5323.8	5150.3	5118.9	4974.6	4946.6
42.5°	8596.1	8582.7	8413.7	7602.4	6563.8	5753.5	5717.7	5423.4	5430.1	5340.6	5341.7
45°	9381.8	9381.8	9244.1	8455.1	7338.3	6402.6	6366.8	5933.7	6000.8	5959.5	6059.1
47.5°	10023.1	10043.2	10024.2	9343.7	8239.2	7227.4	7162.5	6641.0	6829.0	6971.1	7261.0
50°	10677.8	10709.1	10712.4	10318.5	9328.1	8207.8	8133.9	7580.0	7999.7	8407.0	8976.7
52.5°	11627.9	11698.4	11417.5	11291.0	10662.1	9371.7	9299.0	8787.5	9488.1	10060.0	11041.4
55°	12508.6	12447.2	12246.8	12325.1	12090.1	10696.8	10641.9	10193.2	11146.7	11889.8	13164.4
57.5°	12985.4	12980.9	13182.4	13518.2	13630.0	12330.7	12284.9	11848.4	13016.8	13575.3	15157.7
60°	13545.0	13552.8	14051.9	14814.1	15275.2	14365.3	14345.2	14013.9	14833.1	15148.7	16721.1
62.5°	13623.3	13764.4	14623.9	15935.5	16815.2	16742.4	16787.1	15964.6	16458.1	16404.4	17888.4
65°	12722.4	12908.2	14463.9	16274.6	18346.1	19342.2	19383.5	17926.4	17739.6	17477.7	18305.8
67.5°	10875.8	11151.2	12841.1	15537.1	18850.9	21263.7	21321.9	19447.4	18802.7	17841.4	17300.9
70°	7914.6	8220.1	9921.2	13269.7	17951.1	21878.1	21944.2	20119.9	18843.1	16806.1	14769.3
72.5°	4781.0	5020.5	6422.7	9769.0	15151.0	20759.0	20876.5	19267.2	17203.4	14235.5	10906.1
75°	2099.5	2256.2	3105.6	5629.2	10846.8	17175.5	17322.1	16491.7	13978.2	10345.4	6446.3
77.5°	894.2	939.0	1273.6	2445.3	6131.8	11736.5	11937.9	12049.8	9483.6	5629.2	2724.0
80°	557.3	575.2	720.7	1106.9	2869.4	6591.7	6808.9	7089.8	4709.3	2069.3	951.3
82.5°	339.1	359.2	479.0	669.2	1494.0	2988.1	3092.2	3290.3	1827.6	894.2	492.4
85°	203.7	218.3	293.3	423.0	850.5	1175.1	1173.9	1298.2	860.7	575.2	259.6
87.5°	97.3	108.5	156.7	219.4	428.6	440.9	413.0	467.8	522.6	377.2	131.0
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°	3331.7	3331.7	3331.7	3331.7	3331.7	3331.7	3331.7	3331.7	3331.7	3331.7	3331.7
2.5°	3329.4	3325.0	3310.4	3299.3	3297.0	3290.3	3284.7	3288.1	3292.6	3293.7	3293.7
5°	3328.3	3316.0	3297.0	3289.2	3299.3	3312.7	3329.4	3351.8	3365.3	3375.4	3382.1
7.5°	3382.1	3358.5	3337.3	3332.8	3352.9	3388.8	3426.8	3473.8	3506.3	3528.7	3533.2
10°	3471.6	3442.4	3421.2	3425.7	3461.5	3513.0	3566.7	3627.2	3676.4	3706.6	3708.9
12.5°	3574.5	3546.6	3526.5	3545.5	3604.7	3667.4	3723.4	3776.0	3820.7	3851.0	3851.0
15°	3693.2	3673.0	3649.5	3693.2	3773.8	3829.7	3853.3	3879.0	3903.6	3925.9	3921.4
17.5°	3807.3	3788.3	3776.0	3827.4	3911.4	3937.2	3921.4	3902.4	3902.4	3914.7	3917.0
20°	3905.8	3889.0	3896.8	3947.2	3990.8	3964.0	3905.8	3845.3	3820.7	3827.4	3834.2
22.5°	3992.0	3984.1	4007.6	4031.2	3999.8	3905.8	3798.4	3716.7	3686.5	3684.2	3686.5
25°	4092.8	4091.6	4120.7	4078.1	3939.4	3765.9	3621.6	3542.1	3525.3	3538.8	3561.1
27.5°	4218.0	4230.3	4244.9	4089.3	3816.3	3554.4	3407.8	3352.9	3369.8	3402.2	3423.4
30°	4378.1	4411.6	4380.3	4061.4	3639.5	3312.7	3172.8	3157.1	3203.0	3248.9	3271.2
32.5°	4533.7	4586.3	4510.2	3988.6	3411.1	3056.4	2947.8	2943.3	2999.3	3044.1	3075.4
35°	4659.0	4763.1	4607.5	3844.2	3147.0	2820.3	2740.8	2710.5	2730.7	2783.3	2819.1
37.5°	4822.4	4995.9	4674.7	3623.8	2860.5	2625.5	2532.6	2463.2	2445.3	2466.6	2484.5
40°	5121.2	5350.6	4706.0	3316.0	2580.8	2430.8	2336.8	2235.0	2164.5	2112.9	2114.1
42.5°	5609.1	5812.9	4685.9	2942.2	2322.3	2240.6	2134.2	2016.7	1902.5	1786.1	1777.2
45°	6401.5	6500.0	4625.4	2546.0	2095.1	2041.3	1941.7	1824.2	1672.0	1539.9	1527.6
47.5°	7669.5	7451.3	4531.4	2200.2	1894.7	1872.3	1780.6	1645.1	1484.0	1377.7	1368.7
50°	9398.6	8824.5	4485.5	1924.9	1717.9	1724.6	1649.6	1506.4	1354.2	1275.8	1266.9
52.5°	11466.8	10423.7	4573.9	1712.3	1575.7	1599.3	1543.3	1409.0	1281.4	1219.9	1210.9
55°	13612.1	12080.0	4669.1	1557.8	1441.5	1487.3	1468.3	1357.5	1242.2	1185.2	1177.4
57.5°	15448.7	13316.7	4478.8	1432.5	1321.7	1393.3	1410.1	1325.0	1222.1	1170.6	1161.6
60°	16604.7	13814.8	3979.7	1315.0	1226.6	1318.3	1376.5	1316.1	1229.9	1225.5	1218.7
62.5°	17153.1	13771.1	3231.0	1222.1	1167.2	1285.9	1401.1	1366.5	1319.4	1359.8	1363.1
65°	16906.9	13113.0	2406.2	1160.5	1124.8	1298.2	1475.0	1461.6	1345.2	1385.5	1391.1
67.5°	15286.4	11542.8	1781.7	1106.9	1077.7	1332.9	1609.3	1492.9	1294.9	1323.9	1306.0
70°	12355.4	9151.2	1374.3	1046.4	1029.6	1328.4	1669.8	1473.9	1240.0	1246.7	1198.6
72.5°	8520.0	6240.3	1118.0	990.4	960.2	1210.9	1627.2	1426.9	1194.2	1142.6	1078.8
75°	4633.2	3349.6	950.2	932.3	838.2	1063.2	1548.9	1393.3	1152.7	1084.4	1048.6
77.5°	1823.1	1390.0	824.8	852.8	733.0	939.0	1461.6	1329.5	1095.7	1006.1	988.2
80°	744.2	709.6	683.8	737.5	630.1	821.4	1356.4	1254.5	1027.4	933.4	897.5
82.5°	421.9	440.9	531.6	581.9	511.4	756.5	1306.0	1194.2	945.7	836.0	793.5
85°	216.0	258.5	370.5	417.4	376.1	643.5	1203.1	1045.3	758.7	640.2	643.5
87.5°	104.1	144.4	233.9	261.9	244.0	465.6	898.7	757.6	590.9	467.8	453.3
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)