

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: P383127

Luminaire Tested: **GLEON-SA4C-735-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383127
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-SA4C-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1050mA 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: 26738.2 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

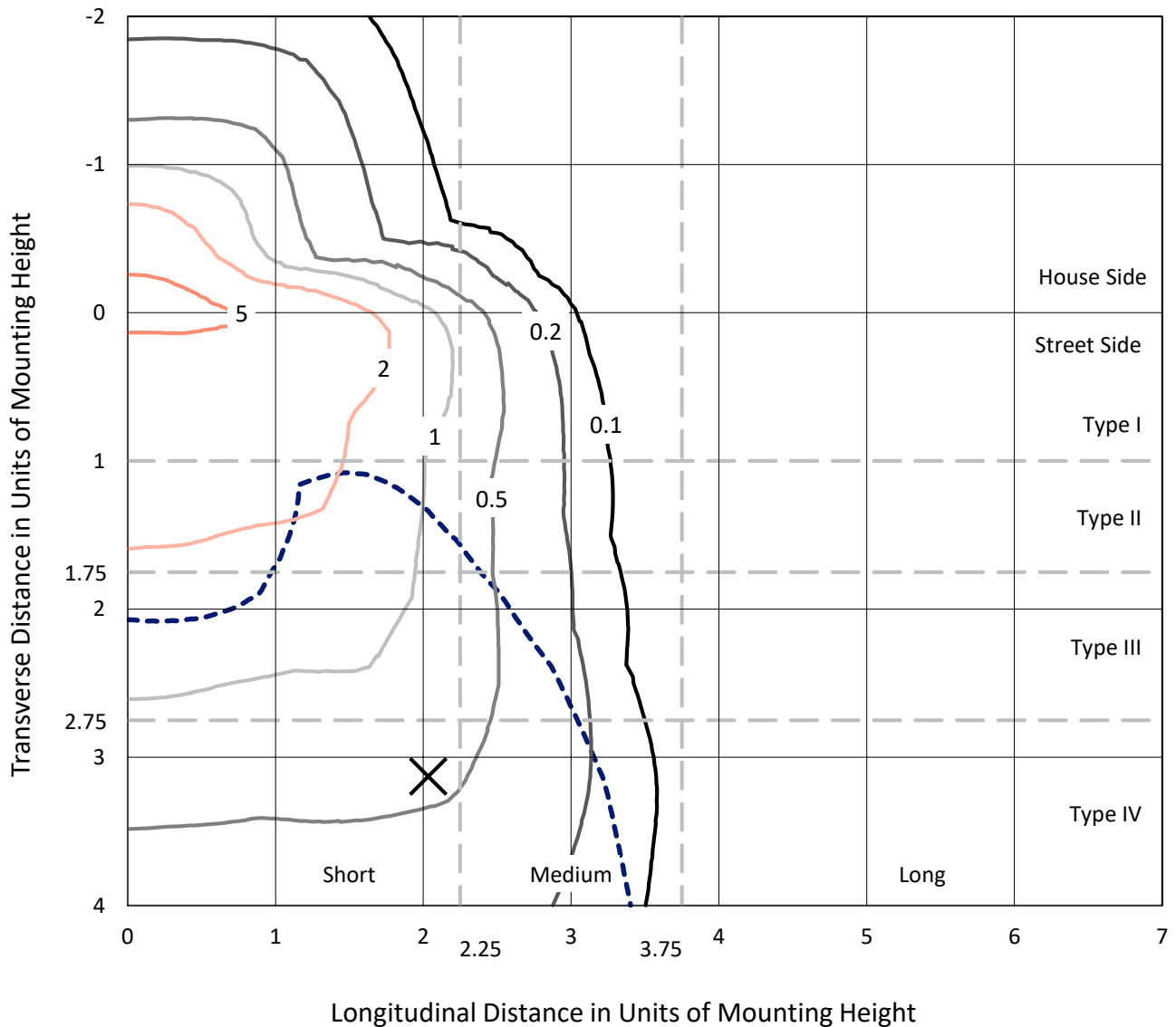
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

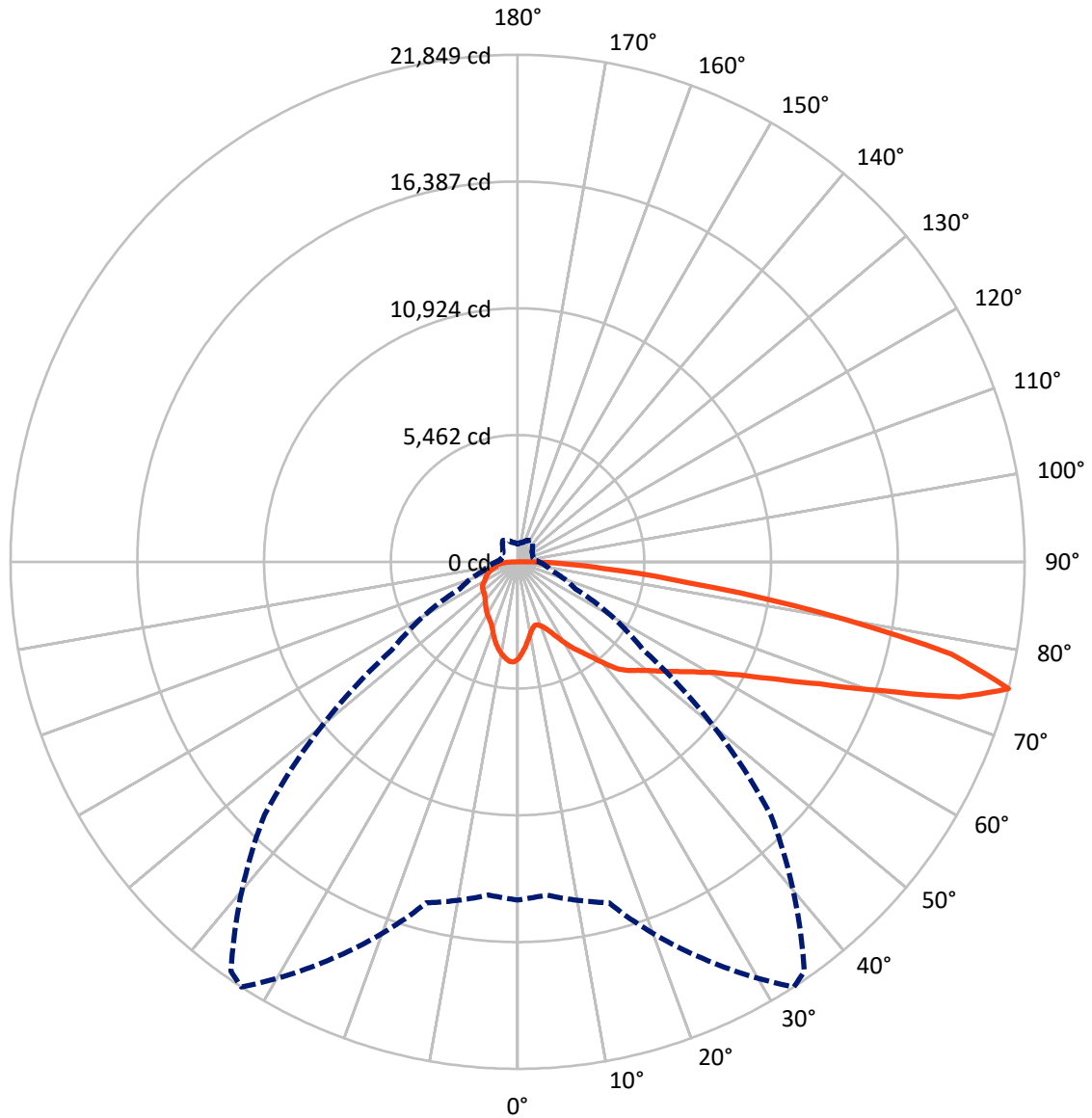
✕ Max cd
 - - - 1/2 Max cd



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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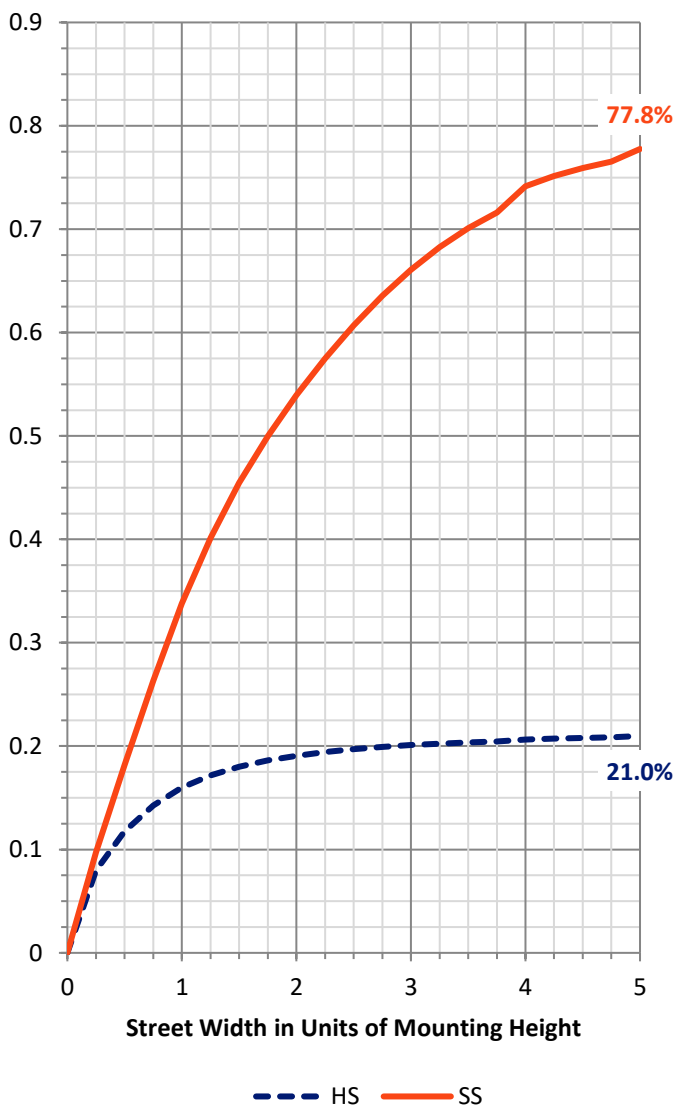
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5741.4	0.0	5741.4
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	20996.8	0.0	20996.8
	% Fixture	78.5	0.0	78.5
Total	Lumens	26738.2	0.0	26738.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.0	1.4
10°-20°	1023.7	3.8
20°-30°	1671.8	6.3
30°-40°	2489.8	9.3
40°-50°	3571.0	13.4
50°-60°	4902.4	18.3
60°-70°	6137.6	23.0
70°-80°	5552.4	20.8
80°-90°	1011.4	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°	26738.2	100.0
0°-180°	26738.2	100.0

Coefficient of Utilization



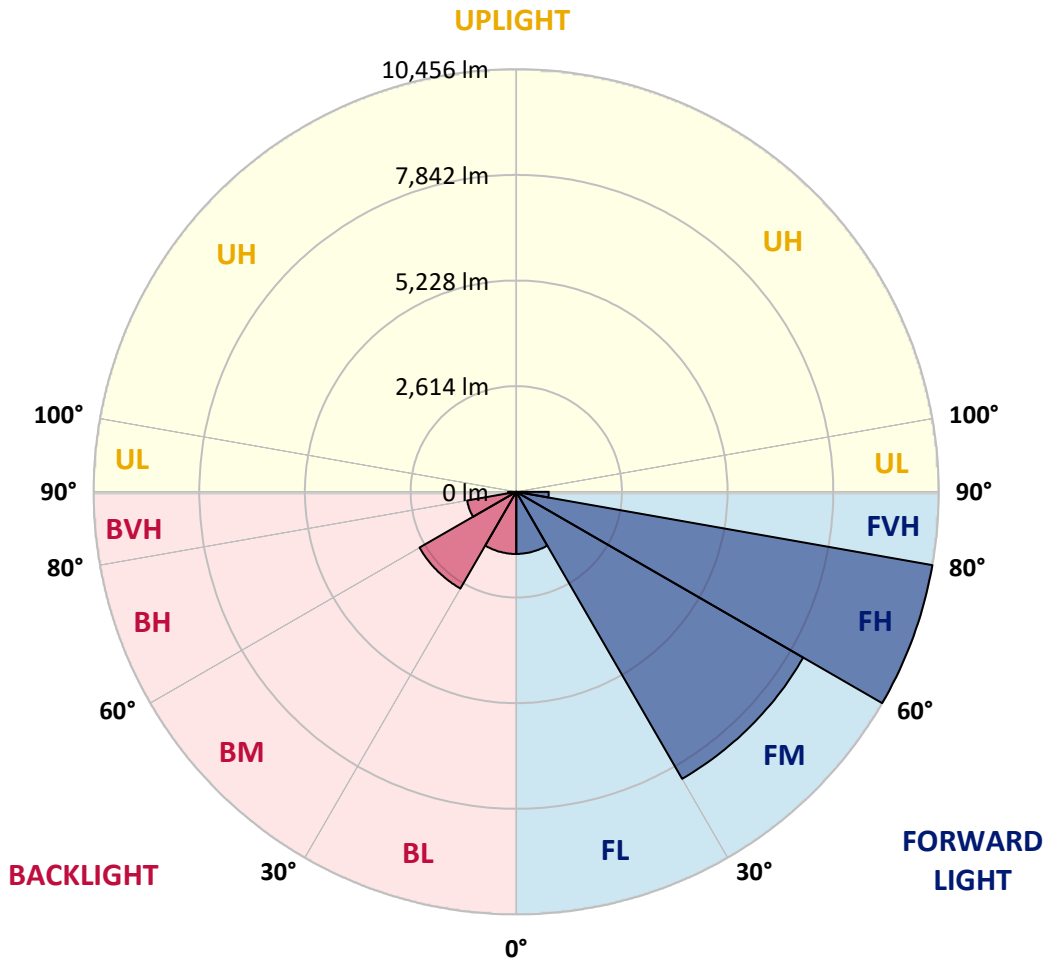
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1535.7	5.7			
FM (30°-60°)	8200.0	30.7			
FH (60°-80°)	10455.6	39.1			G4/12000
FVH (80°-90°)	805.5	3.0			G5
BL (0°-30°)	1537.8	5.8	B3/2500		
BM (30°-60°)	2763.2	10.3	B3/5000		
BH (60°-80°)	1234.5	4.6	B3/2500		G3/2500
BVH (80°-90°)	205.9	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°	4179.3	4179.3	4179.3	4179.3	4179.3	4179.3	4179.3	4179.3	4179.3	4179.3	4179.3
2.5°	3881.0	3866.2	3894.0	3897.6	3921.6	3930.9	3964.1	4015.8	4058.4	4107.3	4151.6
5°	3529.1	3518.9	3557.8	3585.4	3638.1	3660.2	3738.8	3848.7	3946.6	4057.4	4158.1
7.5°	3194.7	3189.2	3232.7	3295.4	3356.4	3386.9	3522.6	3682.4	3845.9	4025.1	4179.3
10°	2913.0	2911.2	2952.8	3014.7	3104.3	3138.4	3313.9	3524.5	3753.6	4000.2	4215.3
12.5°	2755.1	2761.6	2780.9	2832.7	2915.8	2950.0	3144.9	3392.4	3676.0	3991.9	4268.0
15°	2793.9	2804.1	2770.8	2769.0	2828.1	2854.9	3037.8	3298.2	3620.6	4005.7	4344.6
17.5°	2959.2	2961.1	2873.4	2817.9	2854.0	2867.8	3004.5	3244.7	3588.2	4037.1	4440.7
20°	3191.9	3187.4	3032.2	2939.9	2959.2	2963.0	3051.6	3245.6	3585.4	4091.5	4565.4
22.5°	3500.5	3466.3	3257.5	3132.0	3127.3	3121.8	3172.6	3313.9	3626.0	4180.2	4714.1
25°	3903.2	3870.9	3583.6	3411.8	3374.9	3361.0	3368.4	3459.9	3706.4	4275.4	4880.4
27.5°	4351.2	4294.8	4017.7	3774.8	3698.2	3678.8	3634.4	3665.8	3794.2	4366.8	5078.0
30°	4726.1	4695.7	4453.6	4165.5	4075.0	4047.3	3930.9	3896.7	3920.7	4491.5	5327.3
32.5°	4935.8	4915.4	4768.6	4535.9	4451.8	4413.0	4248.6	4180.2	4124.0	4688.2	5665.4
35°	5189.7	5176.8	5088.2	4919.1	4794.5	4753.8	4626.3	4555.3	4410.2	4958.8	6102.3
37.5°	5513.0	5499.2	5501.0	5364.3	5215.6	5177.7	5093.7	5018.9	4781.5	5314.5	6577.0
40°	5878.8	5852.0	5841.8	5835.4	5741.1	5719.9	5675.5	5574.0	5247.0	5739.3	7045.3
42.5°	6429.3	6334.2	6130.9	6207.6	6300.9	6289.8	6325.8	6179.9	5764.2	6241.7	7502.5
45°	6960.3	6804.2	6453.3	6469.9	6674.0	6735.9	7005.6	6902.1	6324.8	6792.2	7975.4
47.5°	7202.3	7084.0	6785.8	6786.7	6988.9	7117.3	7708.5	7634.6	6914.1	7417.5	8552.6
50°	7473.0	7354.7	7086.8	7187.5	7364.0	7500.6	8387.3	8349.5	7474.7	8101.9	9244.4
52.5°	7768.5	7568.1	7398.1	7578.2	7825.7	7984.6	9067.0	8963.6	7989.2	8790.9	10039.7
55°	7772.2	7717.7	7847.0	7979.1	8349.5	8544.3	9779.2	9505.8	8408.5	9467.9	10687.1
57.5°	8214.6	8125.9	8400.2	8461.2	8945.2	9164.9	10487.5	9977.7	8835.3	9987.0	11036.2
60°	8800.1	8724.4	8948.8	9109.6	9682.2	9975.9	11244.1	10462.7	9170.5	10378.6	11019.6
62.5°	9811.5	9725.6	9722.8	9948.2	10719.4	11061.1	12092.8	10938.3	9303.6	10456.2	10549.5
65°	11292.0	11155.4	10897.7	11004.8	12151.9	12492.7	13041.4	11282.8	9128.0	10040.6	9338.6
67.5°	12732.9	12728.3	12411.5	12631.3	14043.5	14316.9	14122.0	11317.0	8580.3	8593.2	7190.3
70°	14169.1	14187.6	14134.0	14898.7	16599.2	16883.6	15272.8	10857.9	7349.2	6205.7	4307.8
72.5°	15307.0	15302.3	15572.0	17543.9	19915.7	19852.0	16242.6	9467.0	5276.6	3349.9	2058.7
75°	14570.0	14409.3	15212.7	18853.6	21848.9	21537.7	15417.8	6603.8	2738.5	1524.9	1108.4
77.5°	9503.0	9655.4	10834.8	15574.8	19111.4	18732.7	11311.4	3081.2	1290.3	1000.3	803.6
80°	3441.3	3602.1	5073.4	8822.3	13167.0	13105.1	5570.3	1266.3	872.8	755.5	585.6
82.5°	1184.1	1243.2	2001.4	3918.0	7434.1	7711.3	2095.7	719.5	634.5	535.7	400.8
85°	464.6	532.0	915.3	1885.1	3749.9	3777.5	848.8	430.4	441.5	351.0	219.8
87.5°	176.4	214.3	437.8	875.6	1712.4	1572.9	303.9	205.0	251.2	208.8	104.3
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°	4179.3	4179.3	4179.3	4179.3	4179.3	4179.3	4179.3	4179.3	4179.3	4179.3	4179.3
2.5°	4185.8	4205.2	4245.8	4273.6	4303.1	4311.4	4315.1	4322.5	4329.9	4327.1	4328.1
5°	4211.6	4249.5	4315.1	4342.8	4355.7	4340.9	4312.3	4289.2	4272.6	4263.4	4260.6
7.5°	4254.1	4307.8	4377.9	4373.3	4343.7	4278.1	4204.3	4148.8	4102.6	4086.0	4076.8
10°	4310.5	4373.3	4422.2	4369.6	4283.7	4170.1	4059.2	3973.3	3904.1	3877.3	3872.7
12.5°	4382.6	4446.3	4455.5	4343.7	4201.5	4046.4	3895.8	3782.2	3678.8	3645.5	3638.1
15°	4475.8	4535.9	4478.6	4298.4	4099.9	3891.2	3696.3	3542.0	3433.0	3392.4	3377.6
17.5°	4573.7	4631.0	4483.2	4223.6	3966.9	3707.4	3462.7	3304.7	3180.0	3132.9	3127.3
20°	4691.0	4716.9	4463.8	4116.5	3784.0	3469.1	3211.4	3062.6	2996.2	2963.0	2959.2
22.5°	4836.0	4808.3	4419.4	3971.6	3552.2	3193.8	2984.2	2914.9	2898.3	2890.9	2893.7
25°	4989.4	4904.4	4353.9	3782.2	3259.4	2918.6	2817.9	2837.3	2859.5	2856.7	2856.7
27.5°	5158.4	5002.2	4253.3	3530.9	2935.2	2693.3	2705.2	2776.4	2809.6	2808.7	2807.8
30°	5375.4	5113.1	4124.8	3228.9	2632.3	2534.4	2607.3	2694.1	2739.4	2737.5	2738.5
32.5°	5642.3	5235.0	3950.3	2891.8	2413.4	2417.1	2501.1	2587.0	2639.6	2635.1	2636.0
35°	5954.5	5371.7	3713.8	2559.3	2268.4	2323.8	2390.3	2450.3	2500.2	2493.8	2487.3
37.5°	6294.4	5505.6	3399.8	2261.9	2150.2	2237.0	2292.4	2302.6	2325.6	2309.0	2297.0
40°	6617.6	5608.2	2995.3	2018.1	2031.1	2163.1	2199.1	2158.5	2116.9	2111.4	2094.8
42.5°	6899.3	5642.3	2586.1	1823.2	1905.4	2085.5	2107.7	2022.7	1947.9	1912.8	1898.0
45°	7196.8	5654.3	2204.7	1659.7	1784.4	2016.2	2040.3	1926.6	1821.4	1745.6	1720.7
47.5°	7585.6	5741.1	1908.2	1538.7	1692.1	1970.0	2004.2	1850.0	1713.3	1605.2	1582.1
50°	8094.5	5912.9	1667.1	1446.4	1632.0	1939.6	1978.3	1775.2	1624.6	1494.4	1471.3
52.5°	8659.8	6070.9	1472.2	1371.5	1573.8	1886.0	1945.2	1721.6	1541.5	1391.9	1367.0
55°	9055.1	5949.9	1315.3	1294.0	1498.1	1809.3	1899.0	1676.3	1422.4	1292.1	1270.0
57.5°	9130.8	5536.1	1196.1	1213.6	1406.6	1713.3	1827.8	1575.7	1357.7	1248.7	1225.6
60°	8923.9	4959.7	1107.4	1139.7	1308.7	1592.3	1694.9	1504.5	1295.8	1202.5	1183.2
62.5°	8404.0	4369.6	1041.8	1073.2	1217.3	1469.4	1611.7	1429.7	1233.0	1149.9	1130.5
65°	7353.8	3668.6	979.1	1014.1	1132.4	1363.2	1536.9	1360.4	1171.1	1107.4	1089.0
67.5°	5550.9	2747.7	919.9	951.3	1056.7	1270.9	1455.6	1292.1	1111.1	1070.4	1048.3
70°	3268.6	1720.7	852.5	885.7	977.2	1174.9	1368.8	1217.3	1036.3	1017.8	989.2
72.5°	1521.2	1035.3	775.8	808.1	877.4	1046.4	1257.0	1119.4	947.7	907.0	868.2
75°	907.9	757.3	685.3	713.9	762.9	909.7	1116.6	1019.7	863.5	810.0	769.4
77.5°	678.8	579.1	585.6	616.0	655.7	796.2	989.2	941.1	798.9	757.3	729.7
80°	488.6	439.6	477.5	510.8	552.3	724.1	947.7	870.1	722.2	666.8	641.0
82.5°	326.0	315.9	359.3	393.5	434.1	633.6	890.4	762.0	617.0	546.8	489.5
85°	180.1	190.2	242.0	256.7	291.9	446.1	729.7	612.4	464.6	374.0	357.4
87.5°	74.8	87.8	130.2	125.6	155.2	266.0	480.3	369.5	295.6	220.8	171.8
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)