

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: P317879

Luminaire Tested: **GLEON-SA5B-827-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317879
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-SA5B-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21468 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

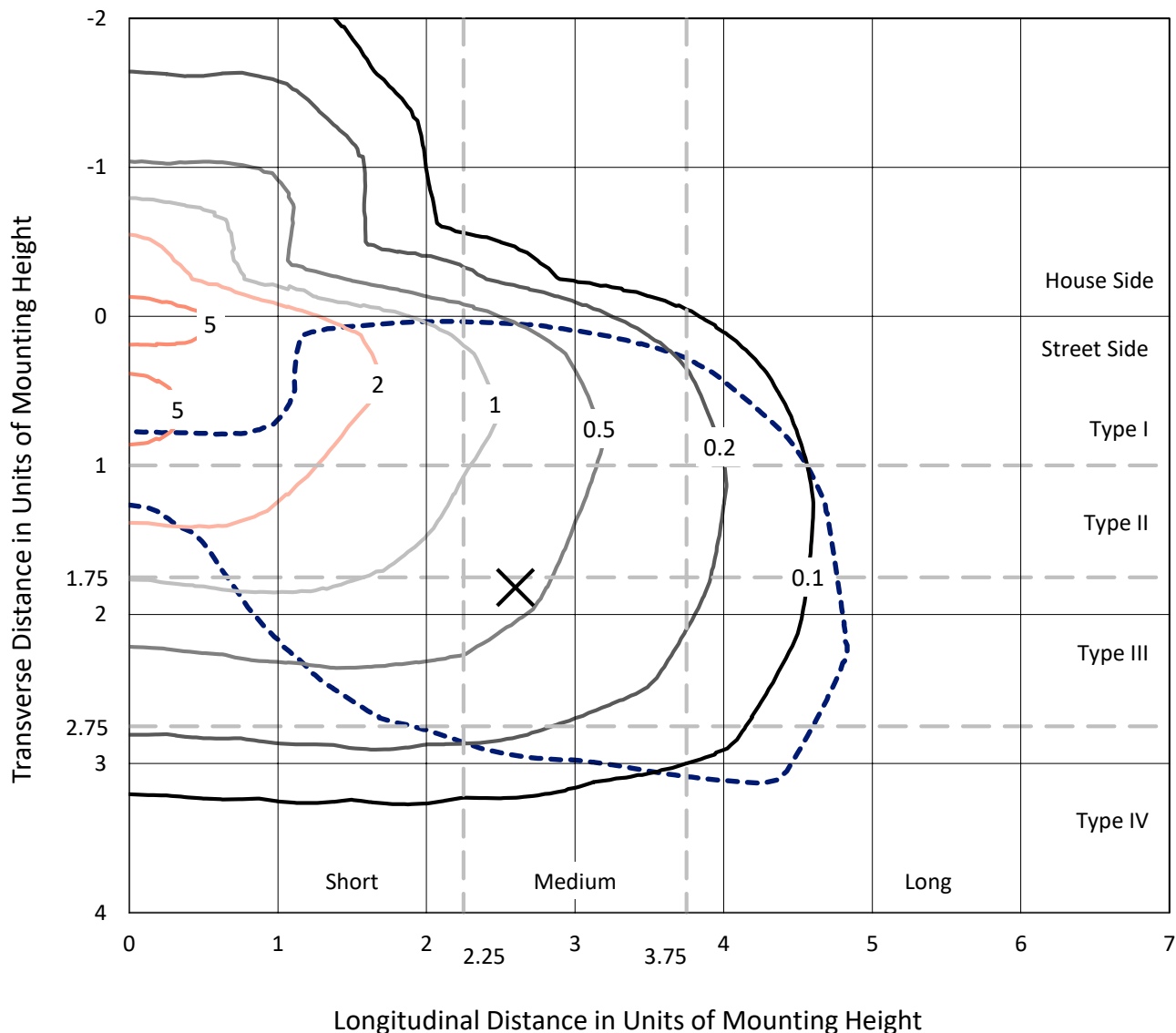
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

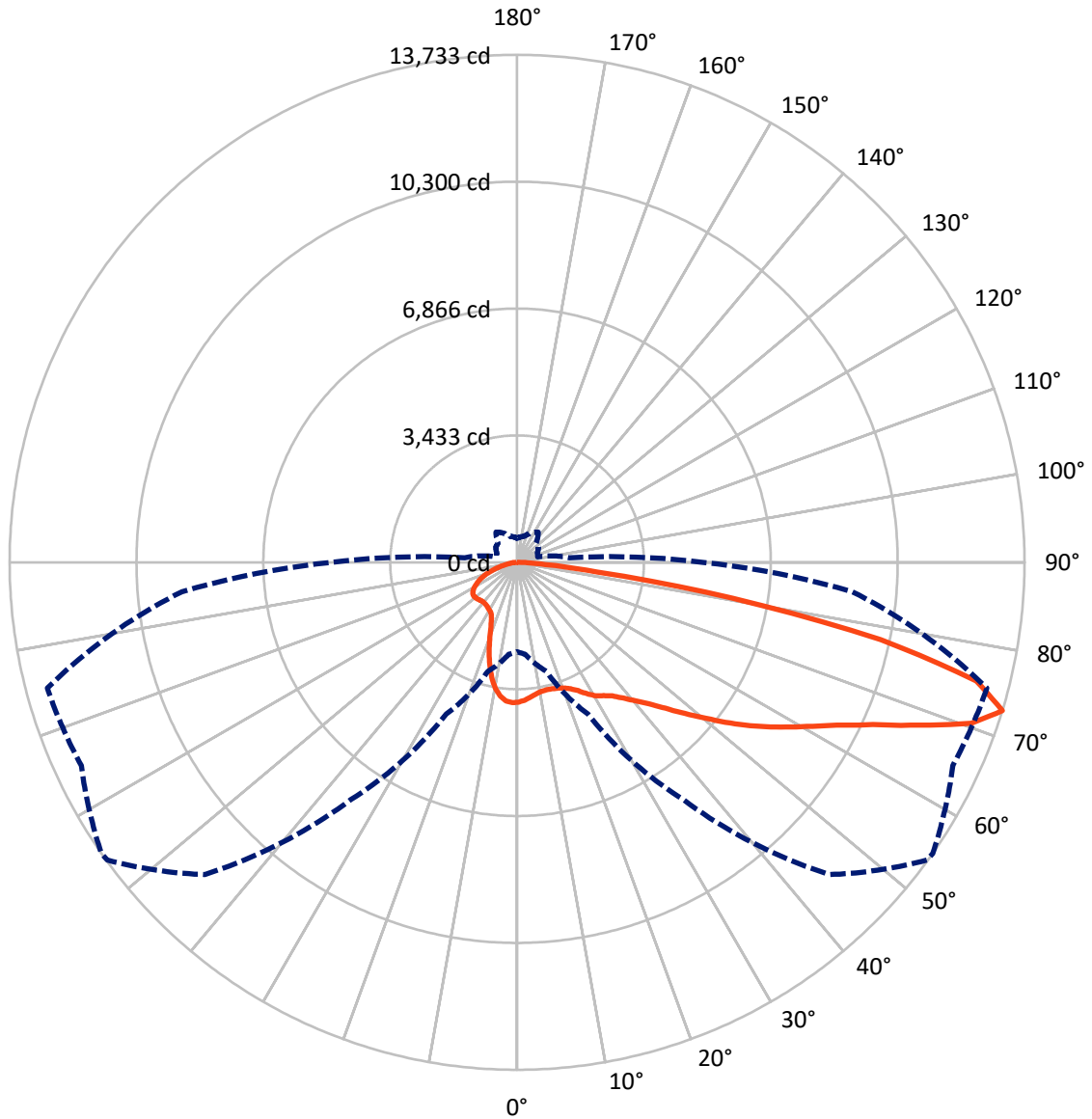
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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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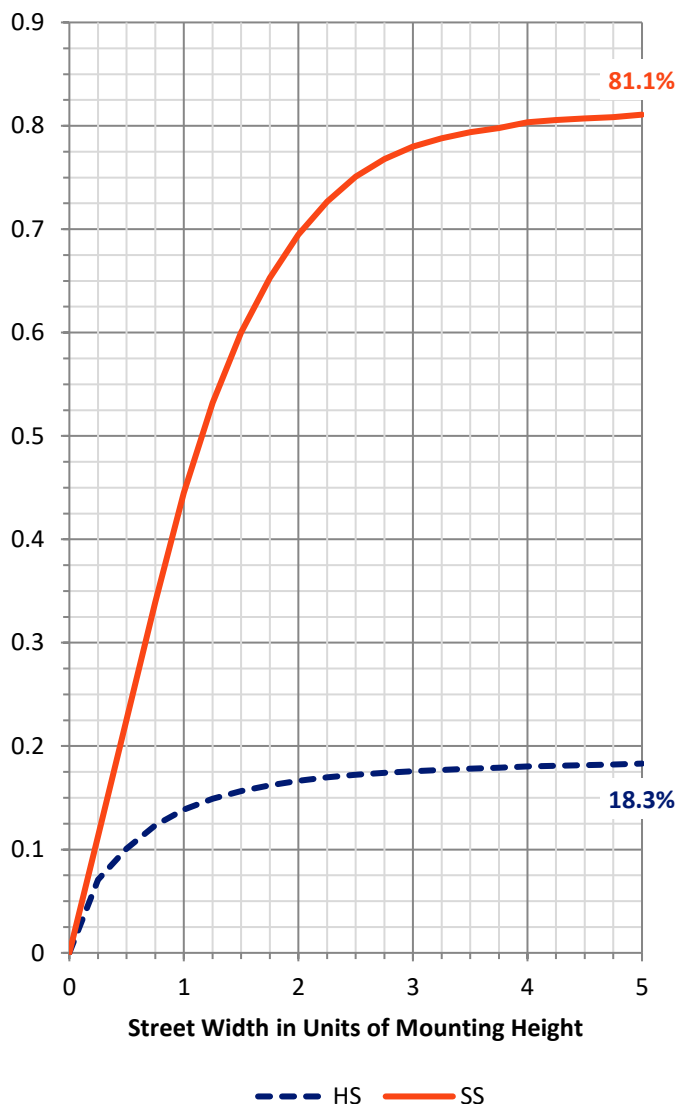
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3990.2	0.0	3990.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	17477.8	0.0	17477.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	21468.0	0.0	21468.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.6	1.6
10°-20°	912.2	4.2
20°-30°	1504.0	7.0
30°-40°	2224.8	10.4
40°-50°	3105.4	14.5
50°-60°	4043.3	18.8
60°-70°	4969.1	23.1
70°-80°	3895.2	18.1
80°-90°	471.4	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°	21468.0	100.0
0°-180°	21468.0	100.0

Coefficient of Utilization

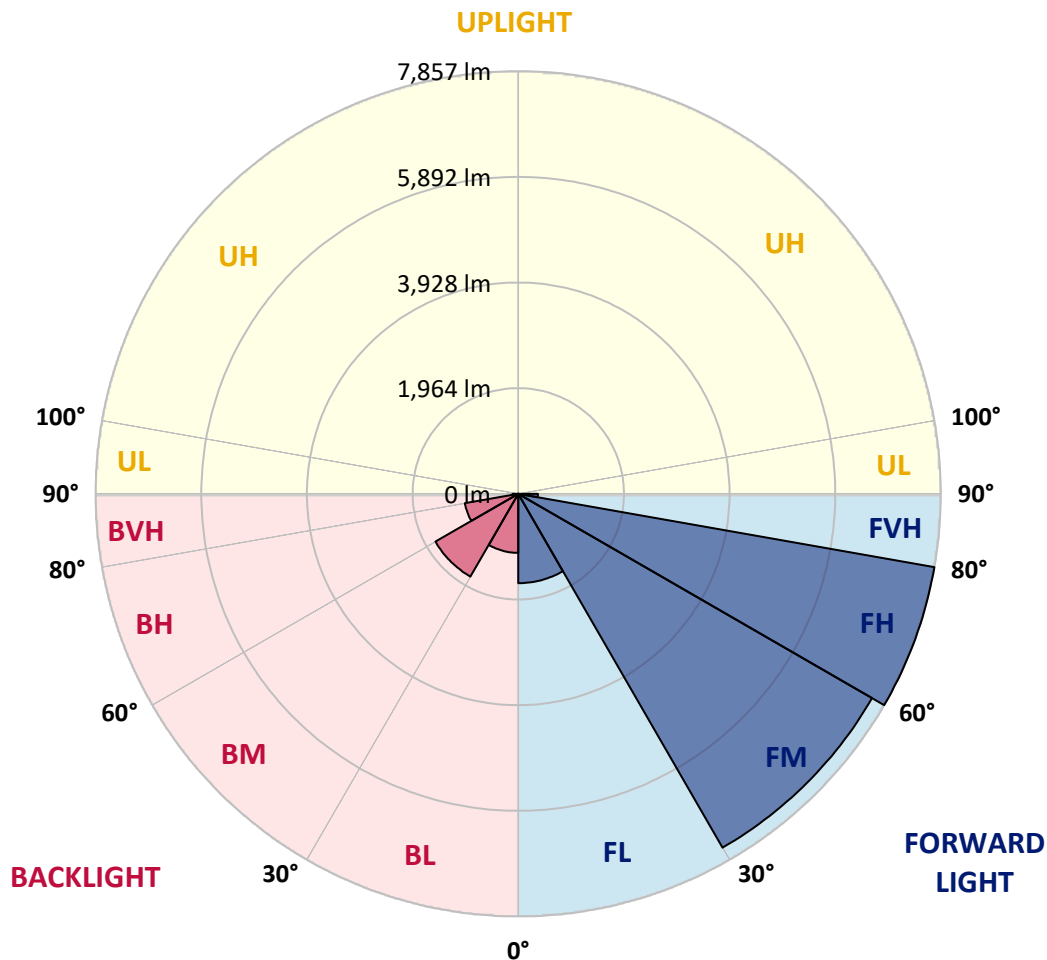


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1661.0	7.7			
FM (30°-60°)	7595.8	35.4			
FH (60°-80°)	7856.6	36.6			G4/12000
FVH (80°-90°)	364.4	1.7			G3/500
BL (0°-30°)	1097.9	5.1	B3/2500		
BM (30°-60°)	1777.7	8.3	B2/2500		
BH (60°-80°)	1007.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	106.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3786.5	3786.5	3786.5	3786.5	3786.5	3786.5	3786.5	3786.5	3786.5	3786.5	3786.5
2.5°	3663.2	3654.5	3665.4	3680.6	3697.3	3719.8	3732.8	3738.6	3761.1	3769.8	3788.7
5°	3493.6	3489.2	3507.3	3533.4	3570.4	3622.6	3664.7	3672.7	3732.1	3774.2	3812.6
7.5°	3370.3	3370.3	3391.3	3422.5	3463.8	3534.2	3593.6	3604.5	3705.3	3795.9	3867.0
10°	3272.4	3276.0	3300.7	3337.7	3386.2	3460.9	3540.0	3552.3	3698.0	3846.7	3959.8
12.5°	3207.1	3215.8	3238.3	3271.7	3331.9	3422.5	3522.6	3539.2	3713.3	3919.2	4071.5
15°	3248.5	3263.0	3265.1	3278.9	3312.3	3410.9	3532.7	3550.1	3745.9	3993.1	4198.4
17.5°	3429.7	3434.8	3412.3	3383.3	3367.4	3430.5	3563.2	3581.3	3785.0	4066.4	4320.2
20°	3705.3	3702.4	3653.8	3575.5	3494.3	3504.4	3613.2	3632.0	3838.0	4130.9	4442.0
22.5°	4053.3	4043.2	3968.5	3824.2	3685.7	3627.7	3700.9	3716.9	3917.7	4223.0	4572.5
25°	4475.3	4452.9	4354.2	4160.6	3956.9	3807.5	3832.9	3848.1	4033.8	4326.0	4692.1
27.5°	4920.6	4898.1	4772.6	4538.4	4267.2	4034.5	4014.9	4028.0	4165.7	4402.1	4780.6
30°	5386.1	5362.1	5247.6	4985.1	4596.4	4269.4	4184.6	4189.7	4258.5	4443.4	4853.1
32.5°	5853.8	5831.3	5702.9	5398.4	4953.9	4521.7	4307.1	4300.6	4314.4	4486.2	4935.1
35°	6328.0	6336.7	6186.6	5849.4	5349.8	4802.4	4452.1	4438.4	4407.9	4574.0	5051.1
37.5°	6835.6	6829.8	6635.4	6283.0	5763.9	5106.9	4660.2	4658.1	4552.9	4740.0	5233.1
40°	7174.9	7178.5	7060.3	6726.8	6182.2	5444.1	4927.1	4922.0	4784.2	4988.7	5471.6
42.5°	7307.6	7331.5	7362.0	7150.3	6620.2	5834.9	5245.4	5238.2	5106.9	5345.5	5752.3
45°	7317.0	7364.9	7553.4	7526.6	7064.0	6282.3	5652.2	5631.9	5537.6	5819.7	6087.2
47.5°	7235.8	7285.1	7598.4	7750.6	7460.6	6754.3	6127.9	6111.9	6030.7	6412.8	6449.8
50°	7058.2	7105.3	7505.6	7860.1	7786.9	7208.3	6676.0	6634.0	6590.5	7098.0	6864.6
52.5°	6725.3	6816.0	7381.6	7886.2	7981.9	7611.4	7252.5	7224.9	7248.9	7821.0	7280.0
55°	5937.2	6038.7	7061.8	7864.5	8126.2	7950.0	7828.9	7827.5	7951.5	8579.4	7726.0
57.5°	5495.6	5567.3	6410.6	7827.5	8297.4	8286.5	8399.6	8413.4	8654.8	9405.3	8193.0
60°	5246.1	5321.5	6080.7	7690.5	8562.8	8721.6	8981.9	9009.4	9369.8	10319.7	8754.9
62.5°	5019.2	5101.8	5876.2	7411.3	8875.3	9343.7	9679.4	9704.1	10126.8	11259.4	9298.0
65°	4631.2	4724.8	5576.8	7227.8	9159.5	10155.1	10566.2	10582.9	10996.2	12244.1	9713.5
67.5°	4083.1	4168.6	5011.9	6822.5	9369.8	11140.5	11745.2	11754.7	11858.4	12939.5	9925.9
70°	3442.8	3475.4	4207.1	5985.7	9121.1	12062.1	13037.4	13039.5	12644.4	13384.7	9891.1
72.5°	2418.9	2495.8	3054.1	4531.2	7838.4	11949.7	13708.1	13732.7	13009.8	13159.9	9100.8
75°	1483.6	1564.8	1915.7	2746.0	4972.8	9398.1	12665.4	12836.5	12324.6	11733.6	7434.5
77.5°	991.9	1022.4	1250.1	1601.0	2252.9	5407.1	9737.4	10059.4	10238.5	8557.0	4754.5
80°	553.3	611.3	828.8	994.8	1002.1	2148.5	5838.5	5913.9	5696.4	3407.3	1466.9
82.5°	292.9	324.8	553.3	584.4	546.7	719.3	2176.0	2178.2	1820.0	913.6	435.8
85°	227.0	253.8	379.2	356.8	279.2	319.0	717.9	757.0	619.2	374.2	142.1
87.5°	113.1	140.7	257.4	226.2	109.5	91.4	256.7	274.1	244.4	146.5	51.5
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°	3786.5	3786.5	3786.5	3786.5	3786.5	3786.5	3786.5	3786.5	3786.5	3786.5	3786.5
2.5°	3795.9	3802.4	3810.4	3801.7	3798.8	3787.2	3767.6	3763.3	3753.1	3753.9	3759.7
5°	3829.3	3840.2	3835.8	3802.4	3762.6	3706.7	3648.7	3599.4	3566.8	3564.6	3562.4
7.5°	3893.1	3900.3	3866.3	3771.3	3659.6	3530.5	3408.7	3302.1	3237.6	3221.6	3218.0
10°	3993.1	3991.7	3898.2	3706.7	3484.1	3253.5	3057.8	2909.8	2823.6	2798.2	2791.7
12.5°	4104.8	4088.1	3909.0	3589.3	3236.1	2916.4	2668.4	2503.8	2413.9	2384.9	2377.6
15°	4220.1	4178.8	3882.2	3413.8	2931.6	2553.1	2292.8	2140.5	2091.9	2076.0	2073.1
17.5°	4327.4	4247.7	3805.3	3176.0	2584.3	2191.3	1988.2	1927.3	1938.9	1960.0	1960.7
20°	4432.6	4294.1	3682.1	2875.8	2218.1	1893.2	1824.4	1869.3	1924.4	1967.2	1973.0
22.5°	4536.3	4326.7	3523.3	2529.2	1890.3	1725.7	1774.3	1856.3	1919.4	1965.8	1973.7
25°	4623.3	4334.7	3304.3	2159.4	1662.7	1662.7	1750.4	1828.0	1890.3	1936.0	1944.0
27.5°	4655.2	4281.0	2995.4	1817.1	1548.1	1633.7	1717.0	1781.6	1834.5	1883.1	1891.8
30°	4667.5	4181.7	2638.7	1542.3	1501.0	1602.5	1672.1	1727.2	1777.2	1822.9	1830.9
32.5°	4669.7	4062.0	2260.1	1386.4	1468.3	1569.9	1616.3	1664.8	1718.5	1736.6	1739.5
35°	4683.4	3920.6	1861.3	1306.6	1437.9	1539.4	1576.4	1611.2	1524.2	1530.7	1536.5
37.5°	4723.3	3780.7	1527.8	1261.7	1418.3	1523.4	1567.7	1441.5	1373.3	1357.4	1355.2
40°	4798.0	3631.3	1280.5	1225.4	1411.1	1531.4	1511.8	1345.8	1228.3	1140.6	1127.5
42.5°	4901.7	3470.3	1122.5	1201.5	1416.1	1569.9	1434.3	1253.7	1058.7	1002.1	994.8
45°	5018.4	3301.4	1036.9	1184.8	1433.5	1599.6	1418.3	1131.2	979.6	936.8	933.2
47.5°	5131.6	3094.7	992.7	1177.6	1457.5	1575.7	1350.9	1093.5	941.9	919.4	921.6
50°	5261.4	2908.4	965.8	1169.6	1478.5	1560.4	1274.7	1073.9	927.4	955.0	984.0
52.5°	5370.8	2715.5	941.9	1153.6	1486.5	1533.6	1255.2	1077.5	927.4	980.3	1007.9
55°	5500.6	2569.8	914.4	1120.3	1471.2	1457.5	1241.4	1099.3	938.3	904.9	907.8
57.5°	5668.1	2521.9	883.9	1068.1	1420.5	1346.5	1234.9	1120.3	931.8	910.7	918.0
60°	5900.2	2572.7	871.6	999.9	1341.4	1259.5	1235.6	1109.4	886.1	849.8	850.5
62.5°	6121.3	2629.2	870.8	957.1	1244.3	1181.9	1218.9	1073.9	862.9	841.8	849.8
65°	6193.8	2571.9	836.0	909.3	1134.8	1089.1	1188.4	1036.2	845.5	813.6	812.1
67.5°	6096.7	2394.3	765.7	831.7	1009.3	981.1	1148.6	991.2	817.9	791.8	787.5
70°	5808.1	1997.7	678.7	729.5	866.5	859.2	1085.5	939.0	780.9	758.5	739.6
72.5°	5031.5	1423.4	572.1	606.9	705.5	728.7	998.5	870.8	728.7	680.1	651.1
75°	4132.4	1053.6	469.9	477.1	535.9	598.9	878.8	791.1	667.1	584.4	562.0
77.5°	2530.6	644.6	374.2	377.1	384.3	477.8	723.7	701.9	588.8	487.3	471.3
80°	819.4	351.7	270.5	284.2	262.5	350.2	559.8	597.5	505.4	407.5	390.1
82.5°	311.8	205.2	182.7	192.2	182.0	234.9	408.2	478.6	414.0	335.0	272.6
85°	150.8	116.0	108.0	121.1	112.4	120.4	261.0	352.4	314.0	218.3	203.0
87.5°	53.7	51.5	41.3	55.8	47.9	42.8	79.8	177.7	207.4	150.1	134.1
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)