

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: P317888

Luminaire Tested: **GLEON-SA4C-827-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317888
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-SA4C-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21445 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

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

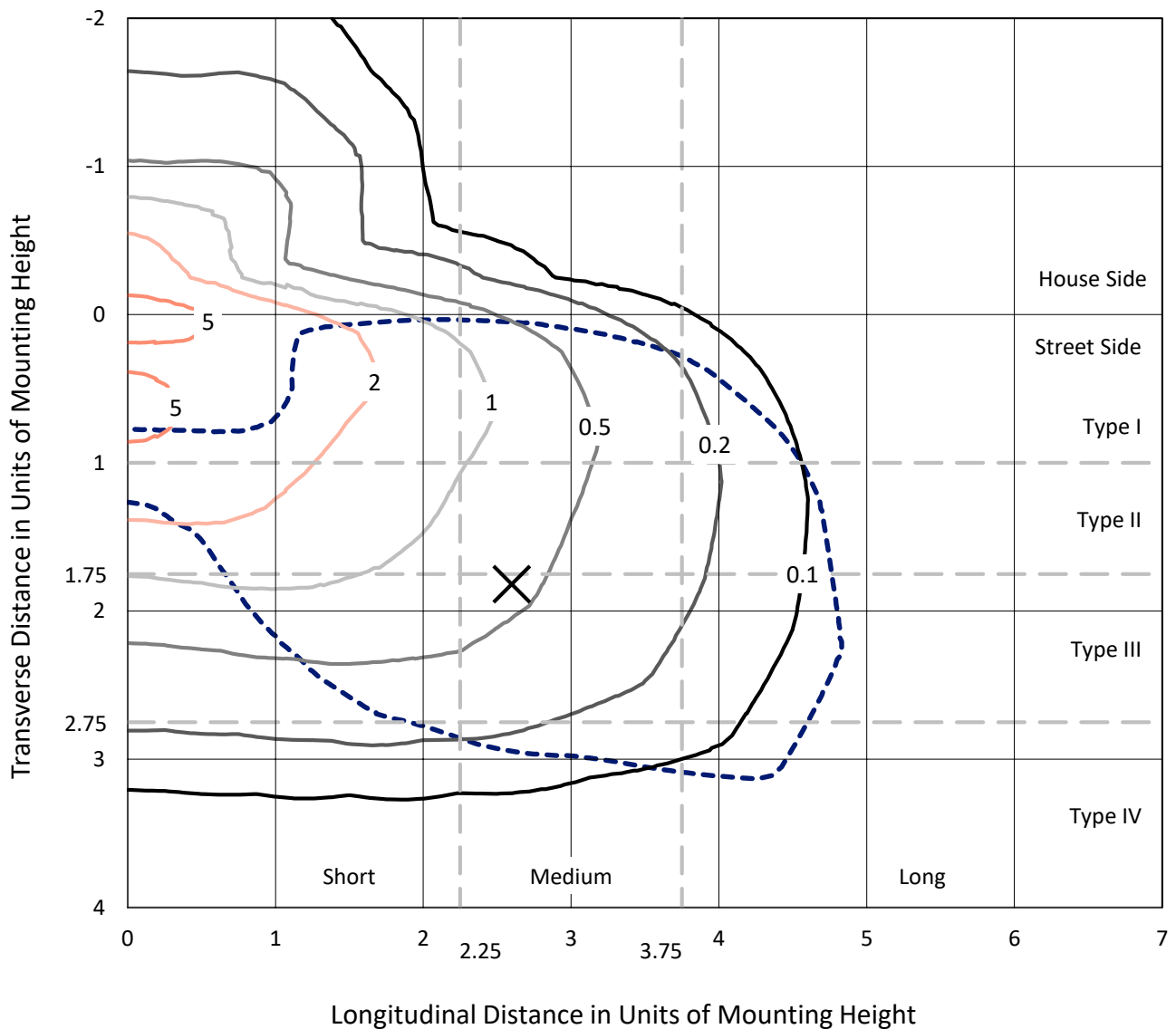




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Iso-Footcandle Lines of Horizontal Illumination

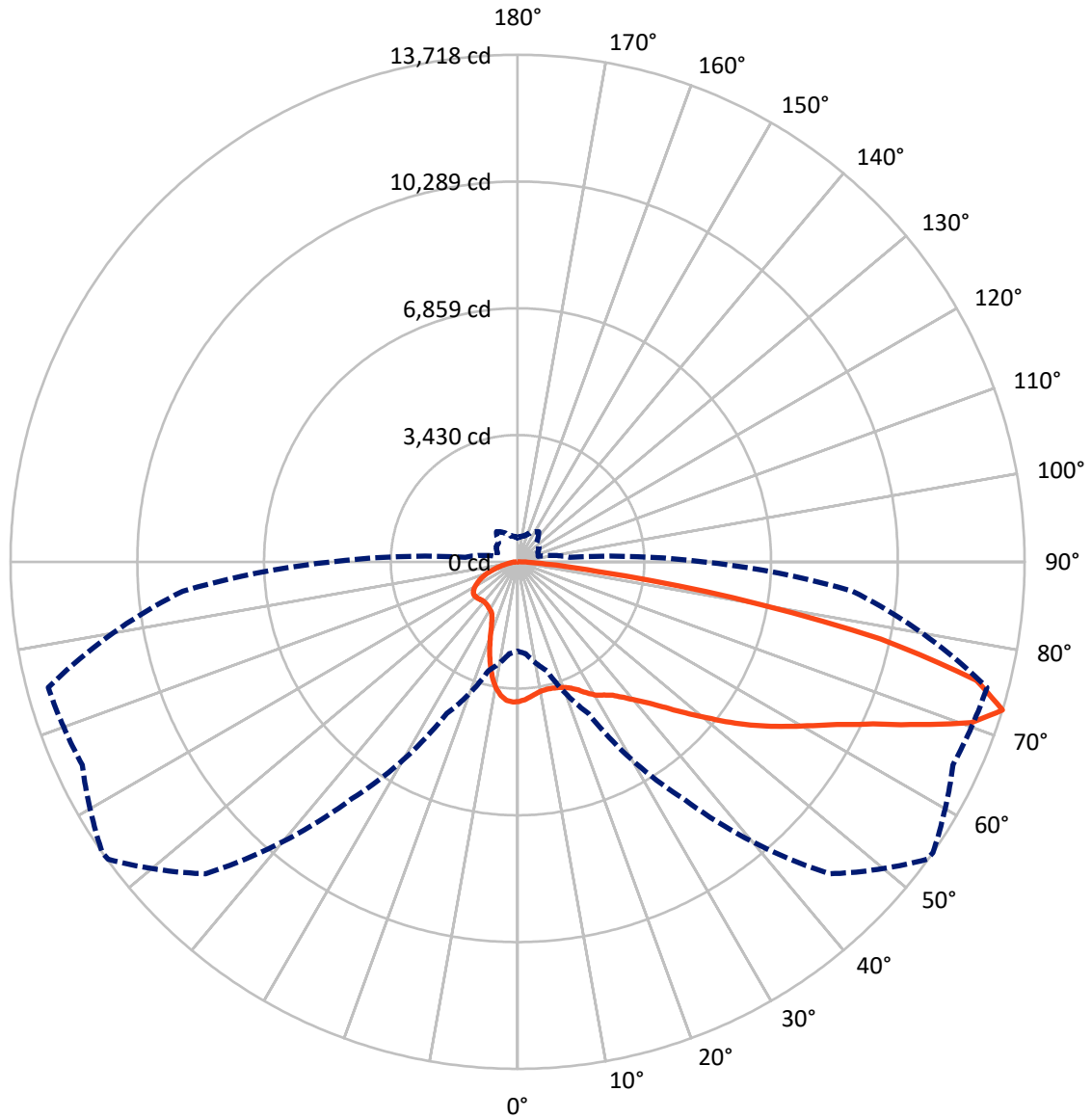
✕ Max cd
 - - - 1/2 Max cd



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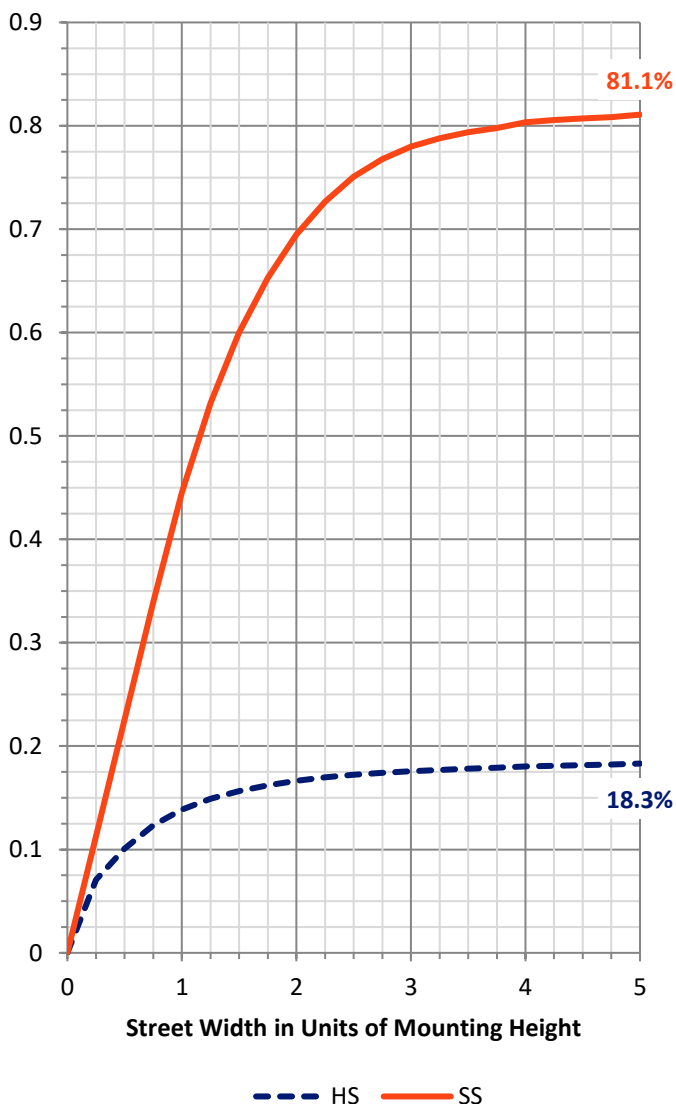
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3985.9	0.0	3985.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	17459.1	0.0	17459.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	21445.0	0.0	21445.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.3	1.6
10°-20°	911.2	4.2
20°-30°	1502.4	7.0
30°-40°	2222.4	10.4
40°-50°	3102.0	14.5
50°-60°	4039.0	18.8
60°-70°	4963.8	23.1
70°-80°	3891.0	18.1
80°-90°	470.9	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°	21445.0	100.0
0°-180°	21445.0	100.0

Coefficient of Utilization

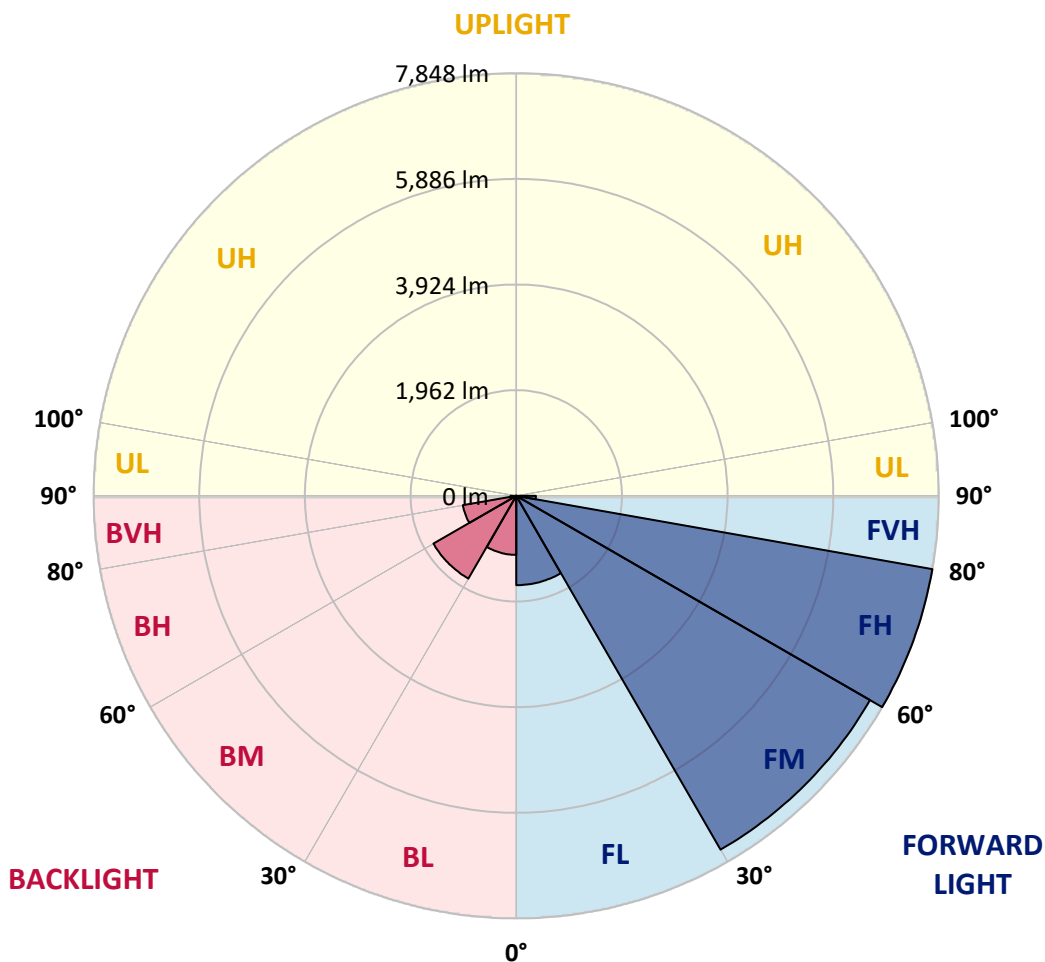


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1659.2	7.7			
FM (30°-60°)	7587.7	35.4			
FH (60°-80°)	7848.1	36.6			G4/12000
FVH (80°-90°)	364.1	1.7			G3/500
BL (0°-30°)	1096.7	5.1	B3/2500		
BM (30°-60°)	1775.8	8.3	B2/2500		
BH (60°-80°)	1006.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	106.8	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°	3782.4	3782.4	3782.4	3782.4	3782.4	3782.4	3782.4	3782.4	3782.4	3782.4	3782.4
2.5°	3659.3	3650.6	3661.5	3676.7	3693.3	3715.8	3728.8	3734.6	3757.1	3765.8	3784.6
5°	3489.8	3485.5	3503.6	3529.6	3566.6	3618.7	3660.7	3668.7	3728.1	3770.1	3808.5
7.5°	3366.7	3366.7	3387.7	3418.8	3460.1	3530.4	3589.8	3600.6	3701.3	3791.9	3862.8
10°	3268.9	3272.5	3297.1	3334.1	3382.6	3457.2	3536.2	3548.5	3694.1	3842.6	3955.6
12.5°	3203.7	3212.4	3234.8	3268.2	3328.3	3418.8	3518.8	3535.4	3709.3	3915.0	4067.1
15°	3245.0	3259.5	3261.6	3275.4	3308.7	3407.2	3528.9	3546.3	3741.9	3988.9	4193.9
17.5°	3426.1	3431.1	3408.7	3379.7	3363.8	3426.8	3559.3	3577.5	3781.0	4062.0	4315.5
20°	3701.3	3698.4	3649.9	3571.7	3490.5	3500.7	3609.3	3628.2	3833.9	4126.5	4437.2
22.5°	4049.0	4038.8	3964.2	3820.1	3681.8	3623.8	3697.0	3712.9	3913.5	4218.5	4567.6
25°	4470.5	4448.1	4349.6	4156.2	3952.7	3803.4	3828.8	3844.0	4029.4	4321.3	4687.1
27.5°	4915.3	4892.8	4767.5	4533.6	4262.7	4030.2	4010.6	4023.6	4161.3	4397.4	4775.5
30°	5380.3	5356.4	5242.0	4979.7	4591.5	4264.8	4180.1	4185.2	4254.0	4438.7	4847.9
32.5°	5847.5	5825.0	5696.8	5392.6	4948.6	4516.9	4302.5	4296.0	4309.7	4481.4	4929.8
35°	6321.2	6329.9	6180.0	5843.1	5344.1	4797.2	4447.4	4433.6	4403.2	4569.1	5045.7
37.5°	6828.2	6822.4	6628.3	6276.3	5757.7	5101.4	4655.3	4653.1	4548.1	4734.9	5227.5
40°	7167.2	7170.8	7052.8	6719.6	6175.6	5438.2	4921.8	4916.7	4779.1	4983.4	5465.8
42.5°	7299.8	7323.7	7354.1	7142.6	6613.1	5828.7	5239.8	5232.5	5101.4	5339.7	5746.1
45°	7309.2	7357.0	7545.3	7518.5	7056.4	6275.6	5646.1	5625.8	5531.7	5813.5	6080.7
47.5°	7228.1	7277.3	7590.2	7742.3	7452.6	6747.1	6121.3	6105.4	6024.2	6405.9	6442.9
50°	7050.6	7097.7	7497.5	7851.7	7778.5	7200.5	6668.9	6626.9	6583.4	7090.4	6857.2
52.5°	6718.1	6808.7	7373.7	7877.8	7973.4	7603.3	7244.7	7217.2	7241.1	7812.6	7272.2
55°	5930.8	6032.2	7054.2	7856.1	8117.5	7941.5	7820.6	7819.1	7943.0	8570.2	7717.7
57.5°	5489.7	5561.4	6403.8	7819.1	8288.5	8277.6	8390.6	8404.4	8645.6	9395.2	8184.2
60°	5240.5	5315.8	6074.2	7682.2	8553.6	8712.2	8972.2	8999.8	9359.8	10308.6	8745.5
62.5°	5013.8	5096.4	5869.9	7403.3	8865.8	9333.7	9669.0	9693.7	10116.0	11247.4	9288.0
65°	4626.3	4719.7	5570.8	7220.1	9149.7	10144.2	10554.9	10571.6	10984.4	12231.0	9703.1
67.5°	4078.7	4164.2	5006.5	6815.2	9359.8	11128.6	11732.7	11742.1	11845.6	12925.6	9915.3
70°	3439.1	3471.7	4202.5	5979.3	9111.3	12049.2	13023.4	13025.6	12630.8	13370.4	9880.5
72.5°	2416.4	2493.1	3050.9	4526.3	7830.0	11936.9	13693.4	13718.0	12995.9	13145.8	9091.0
75°	1482.0	1563.1	1913.7	2743.0	4967.4	9388.0	12651.8	12822.8	12311.4	11721.1	7426.5
77.5°	990.9	1021.3	1248.7	1599.3	2250.5	5401.3	9727.0	10048.6	10227.5	8547.8	4749.4
80°	552.7	610.6	827.9	993.8	1001.0	2146.2	5832.3	5907.6	5690.3	3403.6	1465.3
82.5°	292.6	324.5	552.7	583.8	546.1	718.5	2173.7	2175.9	1818.1	912.7	435.3
85°	226.7	253.5	378.8	356.4	278.9	318.7	717.1	756.2	618.6	373.8	142.0
87.5°	113.0	140.5	257.1	226.0	109.4	91.3	256.4	273.8	244.1	146.3	51.4
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°	3782.4	3782.4	3782.4	3782.4	3782.4	3782.4	3782.4	3782.4	3782.4	3782.4	3782.4
2.5°	3791.9	3798.4	3806.3	3797.6	3794.8	3783.2	3763.6	3759.3	3749.1	3749.8	3755.6
5°	3825.2	3836.0	3831.7	3798.4	3758.5	3702.8	3644.8	3595.6	3563.0	3560.8	3558.6
7.5°	3888.9	3896.2	3862.1	3767.2	3655.7	3526.7	3405.1	3298.6	3234.1	3218.2	3214.6
10°	3988.9	3987.4	3894.0	3702.8	3480.4	3250.1	3054.5	2906.7	2820.5	2795.2	2788.7
12.5°	4100.4	4083.8	3904.8	3585.4	3232.7	2913.2	2665.5	2501.1	2411.3	2382.3	2375.1
15°	4215.6	4174.3	3878.0	3410.1	2928.5	2550.4	2290.3	2138.2	2089.7	2073.7	2070.9
17.5°	4322.8	4243.1	3801.3	3172.6	2581.5	2188.9	1986.1	1925.3	1936.9	1957.9	1958.6
20°	4427.8	4289.5	3678.1	2872.7	2215.7	1891.2	1822.4	1867.3	1922.4	1965.1	1970.9
22.5°	4531.4	4322.1	3519.5	2526.5	1888.3	1723.9	1772.4	1854.3	1917.3	1963.7	1971.6
25°	4618.3	4330.0	3300.8	2157.0	1660.9	1660.9	1748.5	1826.0	1888.3	1934.0	1941.9
27.5°	4650.2	4276.4	2992.2	1815.2	1546.4	1631.9	1715.2	1779.7	1832.5	1881.1	1889.8
30°	4662.5	4177.2	2635.8	1540.6	1499.4	1600.8	1670.3	1725.3	1775.3	1821.0	1828.9
32.5°	4664.7	4057.7	2257.7	1384.9	1466.8	1568.2	1614.5	1663.1	1716.7	1734.8	1737.7
35°	4678.4	3916.4	1859.3	1305.2	1436.3	1537.7	1574.7	1609.5	1522.5	1529.1	1534.8
37.5°	4718.3	3776.6	1526.2	1260.3	1416.8	1521.8	1566.0	1440.0	1371.9	1355.9	1353.8
40°	4792.9	3627.4	1279.2	1224.1	1409.5	1529.8	1510.2	1344.4	1227.0	1139.4	1126.3
42.5°	4896.5	3466.6	1121.3	1200.2	1414.6	1568.2	1432.7	1252.4	1057.5	1001.0	993.8
45°	5013.1	3297.9	1035.8	1183.6	1432.0	1597.9	1416.8	1130.0	978.6	935.8	932.2
47.5°	5126.1	3091.4	991.6	1176.3	1455.9	1574.0	1349.4	1092.3	940.9	918.4	920.6
50°	5255.7	2905.3	964.8	1168.3	1476.9	1558.8	1273.4	1072.7	926.4	953.9	982.9
52.5°	5365.1	2712.6	940.9	1152.4	1484.9	1532.0	1253.8	1076.4	926.4	979.3	1006.8
55°	5494.7	2567.0	913.4	1119.1	1469.7	1455.9	1240.0	1098.1	937.3	904.0	906.9
57.5°	5662.1	2519.2	883.0	1066.9	1419.0	1345.1	1233.5	1119.1	930.8	909.8	917.0
60°	5893.9	2569.9	870.6	998.8	1340.0	1258.2	1234.3	1108.2	885.1	848.9	849.6
62.5°	6114.8	2626.4	869.9	956.1	1242.9	1180.7	1217.6	1072.7	861.9	840.9	848.9
65°	6187.2	2569.2	835.1	908.3	1133.6	1087.9	1187.2	1035.1	844.6	812.7	811.2
67.5°	6090.1	2391.7	764.9	830.8	1008.3	980.0	1147.3	990.2	817.0	791.0	786.6
70°	5801.9	1995.5	678.0	728.7	865.6	858.3	1084.3	938.0	780.1	757.6	738.8
72.5°	5026.1	1421.9	571.5	606.3	704.8	727.9	997.4	869.9	727.9	679.4	650.4
75°	4127.9	1052.4	469.4	476.6	535.3	598.3	877.9	790.2	666.4	583.8	561.4
77.5°	2527.9	643.9	373.8	376.7	383.9	477.3	722.9	701.1	588.2	486.7	470.8
80°	818.5	351.3	270.2	283.9	262.2	349.9	559.2	596.8	504.9	407.1	389.7
82.5°	311.5	205.0	182.5	191.9	181.8	234.7	407.8	478.1	413.6	334.6	272.3
85°	150.7	115.9	107.9	121.0	112.3	120.2	260.8	352.0	313.6	218.0	202.8
87.5°	53.6	51.4	41.3	55.8	47.8	42.7	79.7	177.5	207.2	149.9	134.0
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)