

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: P455780

Luminaire Tested: **GALN-SA7A-727-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455780
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26416 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

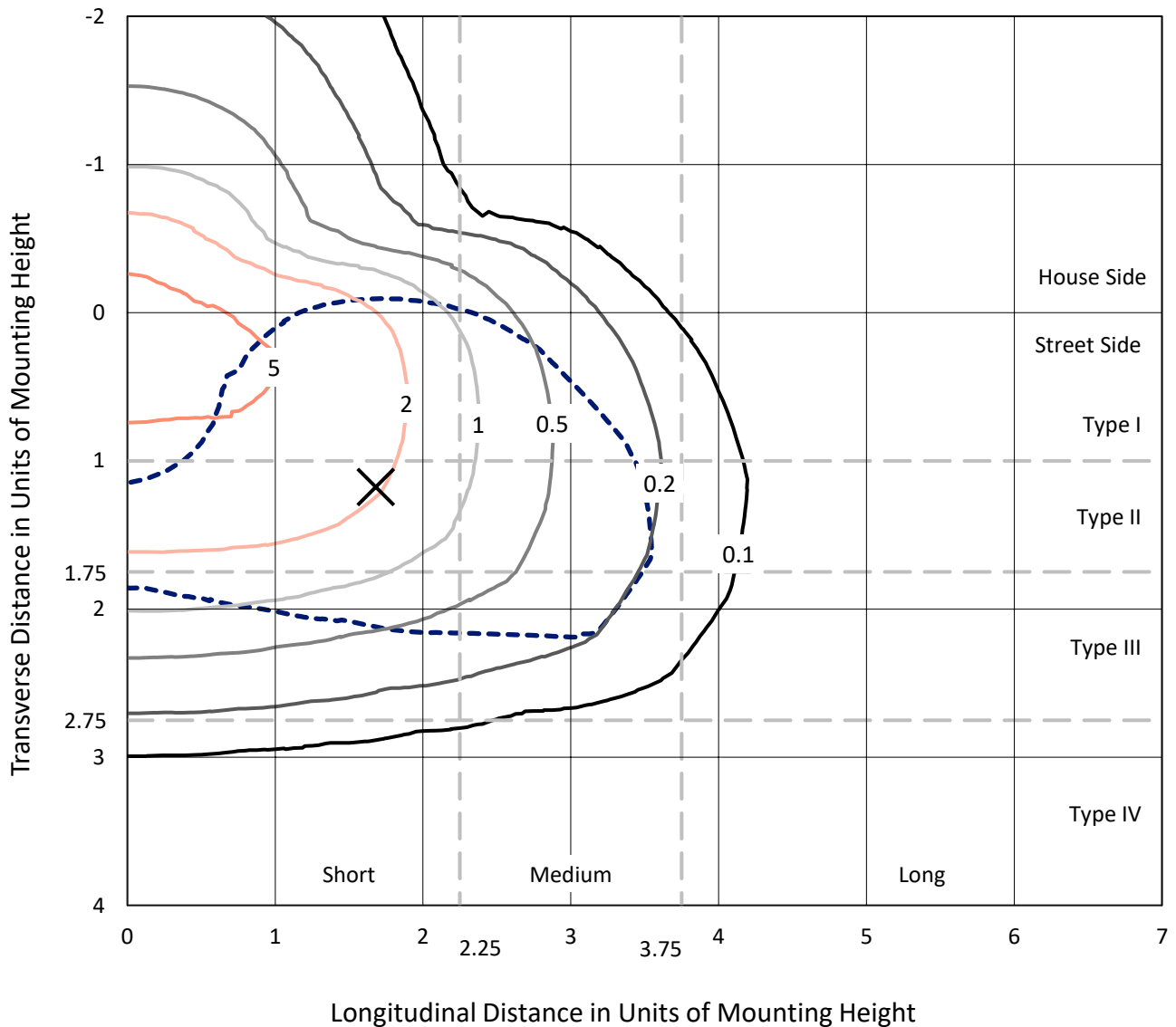
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455780
 CATALOG NUMBER: GALN-SA7A-727-U-T3

Iso-Footcandle Lines of Horizontal Illumination

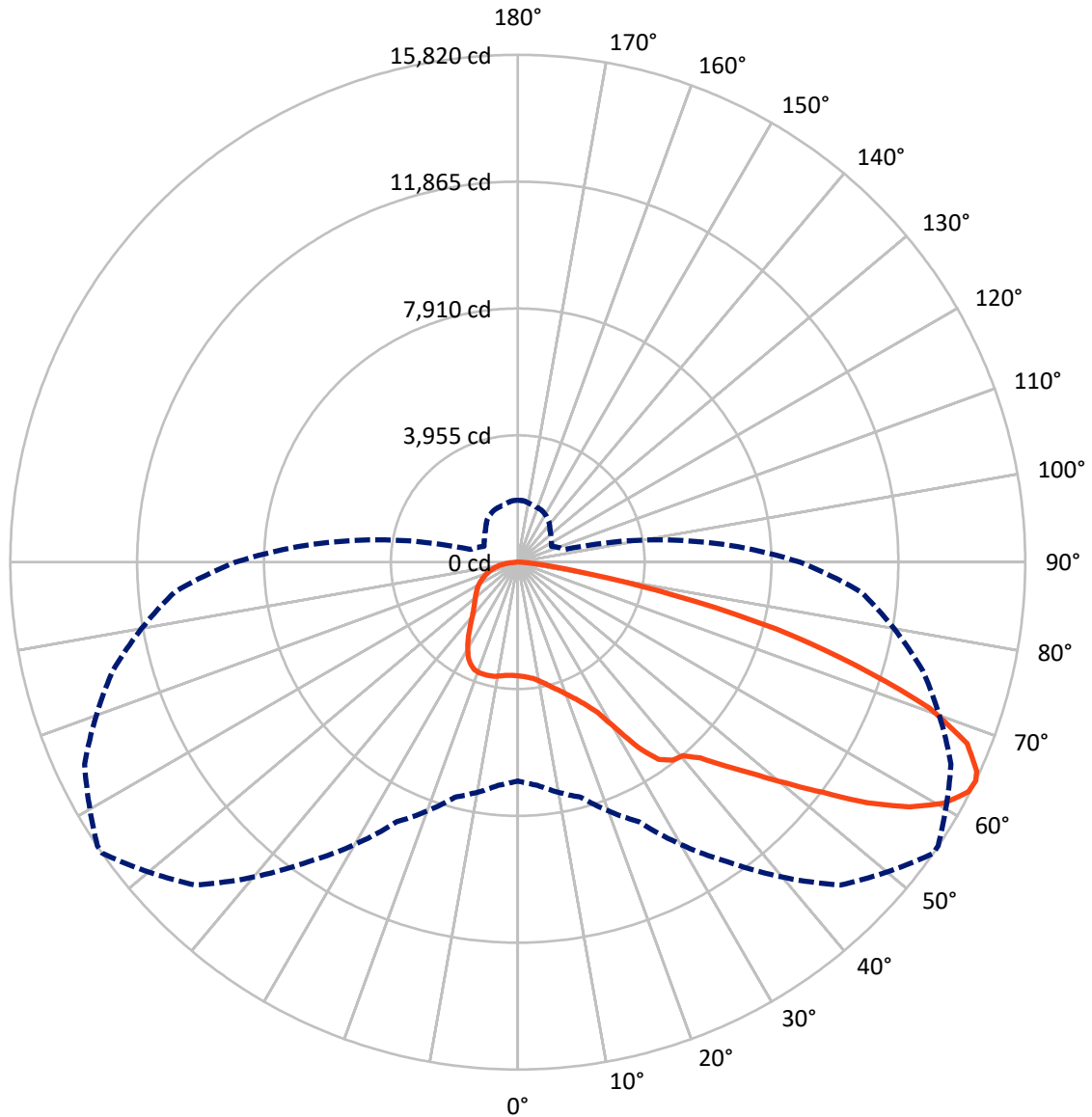
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - N/A

REPORT NUMBER: P455780
CATALOG NUMBER: GALN-SA7A-727-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P455780

CATALOG NUMBER: GALN-SA7A-727-U-T3

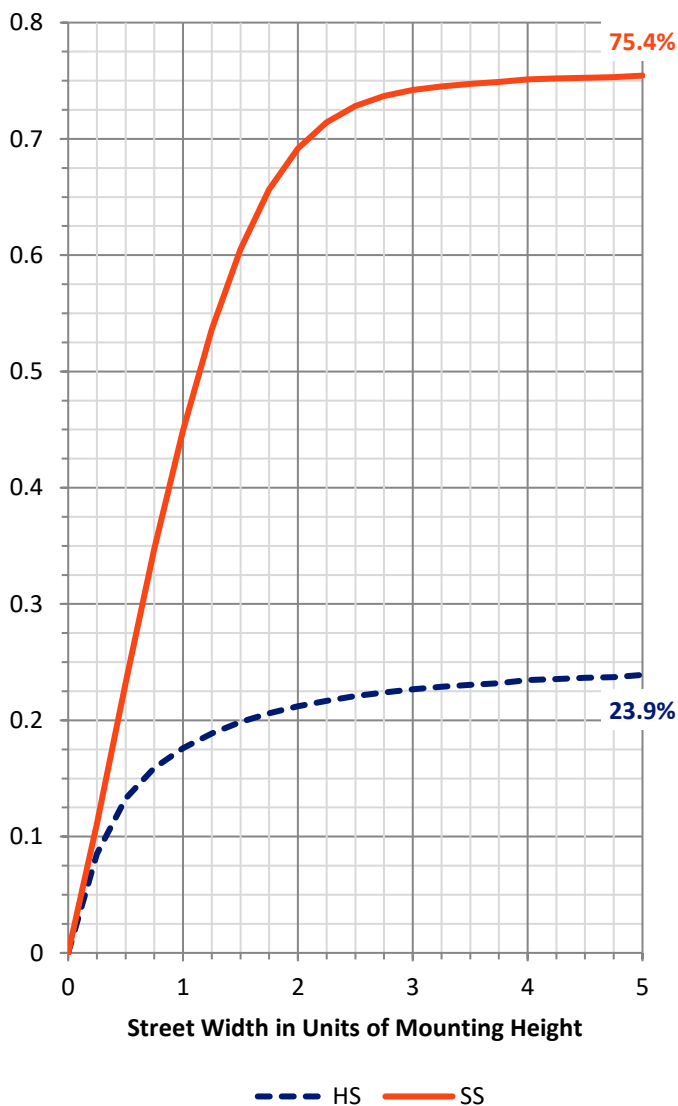
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6417.0	0.0	6417.0
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	19999.0	0.0	19999.0
	% Fixture	75.7	0.0	75.7
Total	Lumens	26416.0	0.0	26416.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.8	1.3
10°-20°	1087.8	4.1
20°-30°	1936.6	7.3
30°-40°	2979.7	11.3
40°-50°	4223.9	16.0
50°-60°	6114.0	23.1
60°-70°	6327.4	24.0
70°-80°	2963.1	11.2
80°-90°	438.7	1.7
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°	26416.0	100.0
0°-180°	26416.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455780

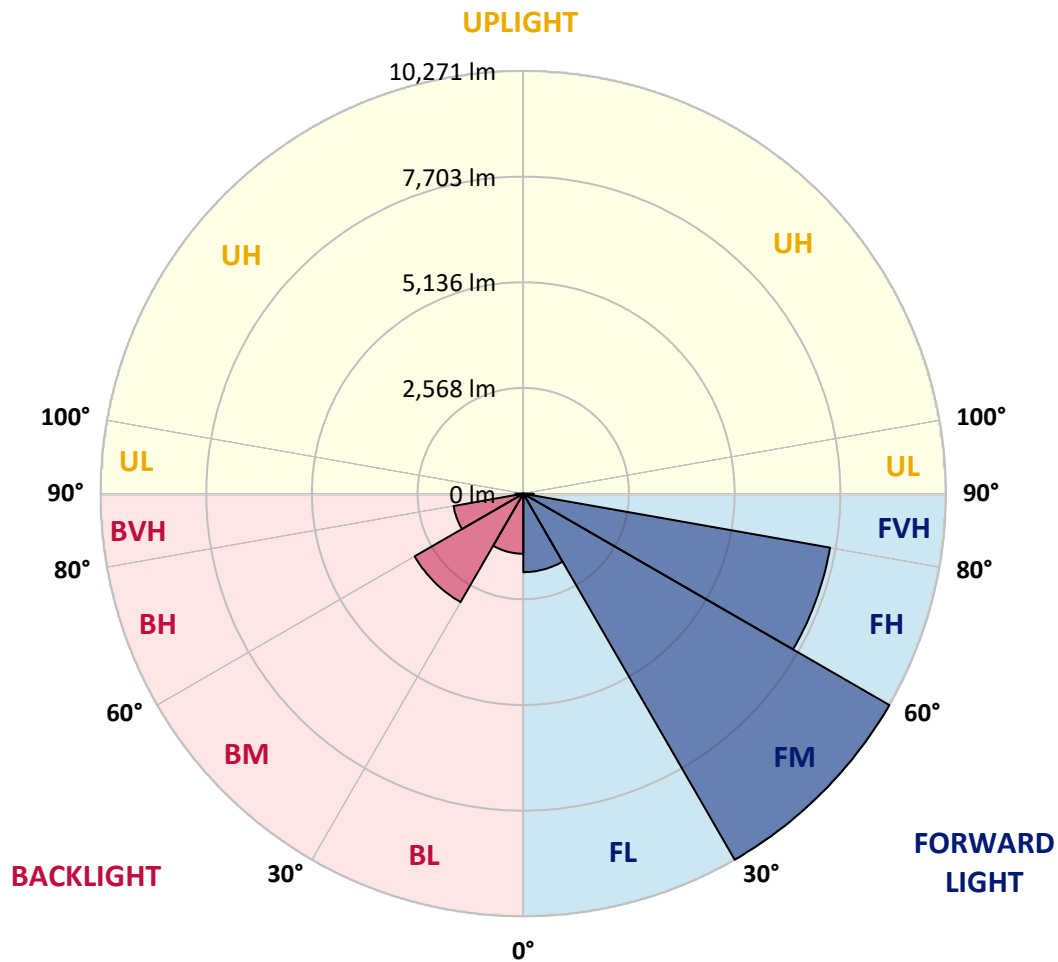
CATALOG NUMBER: GALN-SA7A-727-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1907.7	7.2			
FM	(30°-60°)	10271.3	38.9			
FH	(60°-80°)	7569.0	28.7			G4/12000
FVH	(80°-90°)	251.2	1.0			G3/500
BL	(0°-30°)	1461.5	5.5	B3/2500		
BM	(30°-60°)	3046.4	11.5	B3/5000		
BH	(60°-80°)	1721.5	6.5	B3/2500		G3/2500
BVH	(80°-90°)	187.5	0.7			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 III Short





REPORT NUMBER: P455780

CATALOG NUMBER: GALN-SA7A-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3544.2	3544.2	3544.2	3544.2	3544.2	3544.2	3544.2	3544.2	3544.2	3544.2	3544.2
2.5°	3584.0	3582.5	3586.9	3582.5	3585.5	3575.2	3570.7	3573.7	3569.3	3561.9	3548.6
5°	3628.2	3626.7	3628.2	3622.3	3625.2	3619.3	3609.0	3612.0	3604.6	3588.4	3569.3
7.5°	3703.3	3697.4	3697.4	3695.9	3690.0	3681.2	3673.8	3670.9	3663.5	3642.9	3613.4
10°	3800.4	3800.4	3801.9	3790.1	3797.5	3781.3	3773.9	3772.5	3747.4	3720.9	3679.7
12.5°	3928.5	3935.9	3931.5	3925.6	3922.7	3916.8	3891.7	3897.6	3869.6	3824.0	3773.9
15°	4087.6	4099.4	4092.0	4089.0	4081.7	4059.6	4049.3	4044.9	4008.1	3941.8	3875.5
17.5°	4298.1	4283.4	4277.5	4270.2	4239.2	4223.0	4205.4	4202.4	4170.0	4092.0	3988.9
20°	4482.2	4502.8	4491.0	4483.7	4452.7	4421.8	4408.6	4404.2	4376.2	4290.8	4125.9
22.5°	4701.6	4706.0	4710.4	4692.8	4678.0	4654.5	4630.9	4623.5	4613.2	4524.9	4323.2
25°	4935.7	4953.4	4938.7	4921.0	4903.3	4901.8	4923.9	4921.0	4916.6	4831.2	4585.3
27.5°	5317.1	5333.3	5337.7	5318.6	5250.8	5256.7	5306.8	5323.0	5390.7	5249.3	4922.5
30°	5532.1	5548.3	5585.1	5657.2	5764.7	5858.9	5979.7	6016.5	6081.3	5814.8	5323.0
32.5°	5664.6	5670.5	5736.7	5870.7	6193.2	6545.1	6873.5	6886.7	6928.0	6554.0	5689.6
35°	5873.7	5878.1	5931.1	6078.3	6456.8	7042.8	7550.8	7567.0	7533.1	6783.7	5860.4
37.5°	6131.4	6143.1	6177.0	6299.2	6751.3	7459.5	7832.1	7820.3	7519.9	6966.2	6162.3
40°	6506.8	6506.8	6467.1	6632.0	7062.0	7698.1	7930.7	7910.1	7830.6	7494.9	6621.7
42.5°	6838.1	6832.3	6926.5	7038.4	7450.7	8066.2	8344.5	8378.3	8509.4	8158.9	7144.4
45°	7269.6	7296.1	7349.1	7552.3	8111.8	8694.9	9054.2	9086.6	9272.1	8940.8	7755.5
47.5°	7705.4	7714.3	7880.6	8151.6	8930.5	9547.5	9842.0	9895.0	10064.3	9855.2	8413.7
50°	8014.6	8098.6	8365.1	8792.1	9774.2	10587.0	10816.7	10880.1	11179.0	10850.6	9180.8
52.5°	8341.5	8424.0	8749.4	9400.2	10743.1	11650.2	11932.9	11975.6	12286.3	11857.8	9965.7
55°	8621.3	8697.9	9067.5	9939.2	11514.7	12735.4	13247.8	13197.7	13346.4	12633.8	10570.8
57.5°	8666.9	8728.8	9194.1	10283.7	12094.9	13666.0	14400.7	14430.2	14257.9	13213.9	11070.0
60°	8313.6	8440.2	8974.7	10246.9	12355.5	14313.9	15260.7	15281.3	14792.4	13511.4	11268.8
62.5°	7687.8	7674.5	8320.9	9655.0	11990.3	14461.1	15767.2	15745.1	15001.5	13368.5	11075.9
64°	6823.4	6982.4	7586.2	8927.6	11401.3	14234.3	15820.2	15808.4	14901.4	13071.1	10747.5
65°	6296.3	6287.4	6883.8	8332.7	10815.3	13892.7	15726.0	15709.8	14692.3	12804.6	10492.8
67.5°	4545.5	4566.1	5155.1	6430.3	8792.1	12557.2	15111.9	15051.6	13867.7	11921.1	9523.9
70°	2753.5	2765.3	3227.6	4265.7	6311.0	10151.2	13621.8	13624.7	12605.8	10601.8	8105.9
72.5°	1450.4	1481.3	1666.8	2422.2	3832.8	7122.3	11050.9	11313.0	10822.6	9048.3	6403.8
75°	806.9	811.3	942.4	1194.2	1955.4	3986.0	8306.2	8381.3	8568.3	7282.8	4735.5
77.5°	615.5	624.3	665.6	771.6	1064.6	1847.9	5027.0	5404.0	6038.6	5134.5	2702.0
80°	499.2	508.0	543.3	606.7	708.3	876.1	2335.3	2538.5	3232.1	2279.4	1054.3
82.5°	388.7	382.8	428.5	469.7	515.4	518.3	958.6	1060.2	1316.4	980.7	456.5
85°	288.6	288.6	325.4	316.6	332.8	303.3	422.6	466.8	527.1	416.7	212.0
87.5°	114.9	126.6	213.5	191.4	148.7	119.3	156.1	164.9	182.6	163.4	88.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P455780

CATALOG NUMBER: GALN-SA7A-727-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3544.2	3544.2	3544.2	3544.2	3544.2	3544.2	3544.2	3544.2	3544.2	3544.2	3544.2
2.5°	3550.1	3554.5	3544.2	3536.9	3533.9	3529.5	3525.1	3526.6	3532.5	3538.3	3536.9
5°	3567.8	3569.3	3551.6	3542.8	3536.9	3531.0	3531.0	3535.4	3547.2	3556.0	3556.0
7.5°	3612.0	3612.0	3586.9	3570.7	3561.9	3551.6	3548.6	3550.1	3559.0	3570.7	3572.2
10°	3681.2	3675.3	3642.9	3617.9	3601.7	3576.6	3554.5	3542.8	3547.2	3554.5	3554.5
12.5°	3765.1	3748.9	3707.7	3673.8	3634.1	3586.9	3541.3	3517.7	3516.3	3523.6	3520.7
15°	3854.9	3837.3	3779.8	3718.0	3648.8	3579.6	3525.1	3491.2	3464.7	3457.4	3473.6
17.5°	3959.5	3922.7	3843.1	3757.7	3654.7	3564.8	3479.4	3410.2	3363.1	3349.9	3354.3
20°	4086.1	4037.5	3930.0	3796.0	3650.2	3511.8	3379.3	3286.5	3210.0	3186.4	3189.4
22.5°	4261.3	4177.4	4019.8	3815.2	3613.4	3411.7	3227.6	3106.9	3014.1	2977.3	2999.4
25°	4460.1	4368.8	4105.2	3810.7	3517.7	3251.2	3048.0	2890.5	2806.5	2752.0	2763.8
27.5°	4734.0	4572.0	4196.5	3771.0	3380.8	3055.4	2819.8	2671.1	2594.5	2566.5	2579.8
30°	5084.4	4835.6	4295.2	3663.5	3164.3	2808.0	2590.1	2492.9	2447.2	2411.9	2423.7
32.5°	5337.7	5021.1	4317.3	3482.4	2930.2	2582.7	2434.0	2361.8	2311.8	2277.9	2285.3
35°	5518.8	5178.7	4307.0	3260.0	2685.8	2397.2	2310.3	2251.4	2170.4	2096.8	2083.5
37.5°	5761.8	5376.0	4231.9	3017.1	2444.3	2272.0	2210.2	2101.2	1984.9	1886.2	1881.8
40°	6134.3	5607.2	4071.4	2731.4	2238.2	2179.3	2104.2	1962.8	1837.6	1758.1	1752.2
42.5°	6518.6	5820.7	3853.4	2431.0	2068.8	2082.1	1990.8	1850.9	1774.3	1722.8	1716.9
45°	6988.3	6051.8	3617.9	2170.4	1943.7	1990.8	1892.1	1811.1	1765.5	1731.6	1722.8
47.5°	7496.3	6288.9	3352.8	1936.3	1837.6	1906.8	1850.9	1814.1	1789.0	1765.5	1755.2
50°	8044.1	6554.0	3104.0	1747.8	1741.9	1820.0	1846.5	1833.2	1818.5	1811.1	1802.3
52.5°	8644.9	6824.9	2894.9	1615.3	1658.0	1758.1	1847.9	1858.3	1858.3	1853.8	1847.9
55°	9051.3	7013.4	2682.8	1507.8	1572.6	1708.1	1845.0	1884.8	1899.5	1893.6	1887.7
57.5°	9351.6	7116.4	2416.3	1415.0	1500.4	1659.5	1828.8	1887.7	1902.4	1909.8	1906.8
60°	9413.5	7020.7	2067.3	1317.9	1422.4	1588.8	1769.9	1843.5	1862.7	1908.3	1912.7
62.5°	9135.2	6726.2	1719.8	1222.1	1326.7	1481.3	1690.4	1793.5	1831.7	1902.4	1909.8
64°	8793.6	6396.4	1526.9	1161.8	1264.8	1420.9	1650.6	1780.2	1830.3	1924.5	1930.4
65°	8543.3	6156.4	1406.2	1123.5	1225.1	1381.2	1628.5	1784.6	1843.5	1958.4	1967.2
67.5°	7621.5	5330.3	1163.2	1033.7	1130.9	1313.4	1633.0	1821.4	1840.6	1971.6	1970.2
70°	6306.6	4243.7	974.8	951.2	1039.6	1259.0	1615.3	1762.5	1764.0	1850.9	1830.3
72.5°	4722.2	3136.4	845.2	865.8	938.0	1129.4	1525.5	1683.0	1658.0	1669.8	1649.2
75°	3243.8	2074.7	727.4	774.5	831.9	998.3	1398.8	1528.4	1488.7	1473.9	1459.2
77.5°	1731.6	1147.1	605.2	684.7	723.0	862.9	1220.7	1345.8	1304.6	1247.2	1228.0
80°	700.9	540.4	487.4	566.9	589.0	695.0	1016.0	1094.0	1063.1	963.0	930.6
82.5°	351.9	323.9	382.8	446.2	447.6	496.2	755.4	829.0	759.8	637.6	609.6
85°	184.1	189.9	263.6	313.6	276.8	268.0	453.5	502.1	460.9	400.5	360.8
87.5°	66.3	76.6	138.4	136.9	97.2	51.5	100.1	48.6	26.5	16.2	20.6
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)