

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: P652033

Luminaire Tested: **GALN-SA7A-840-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652033
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-840-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26564.7 lumens
Efficiency: N/A
Efficacy: 123.6 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

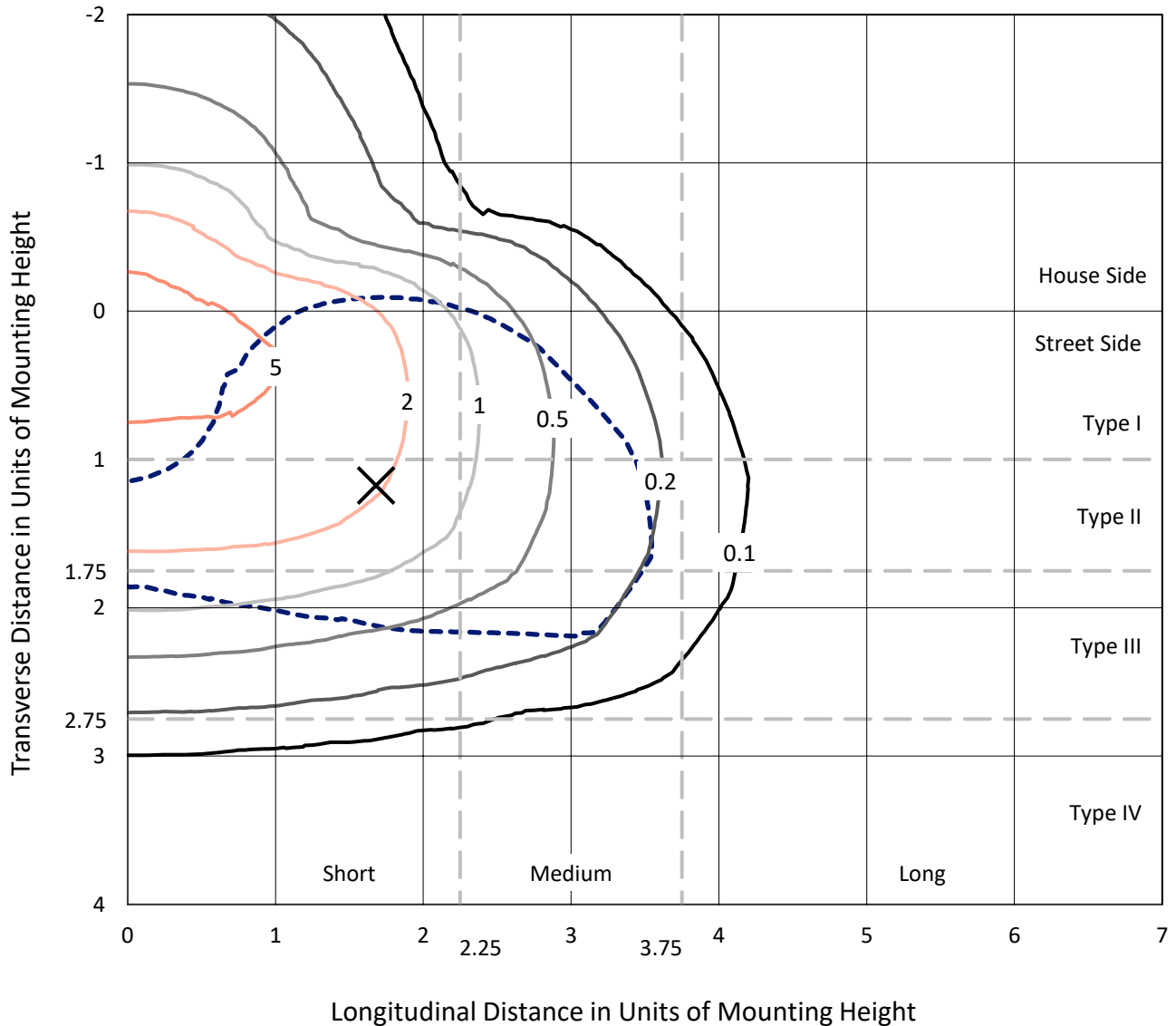
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

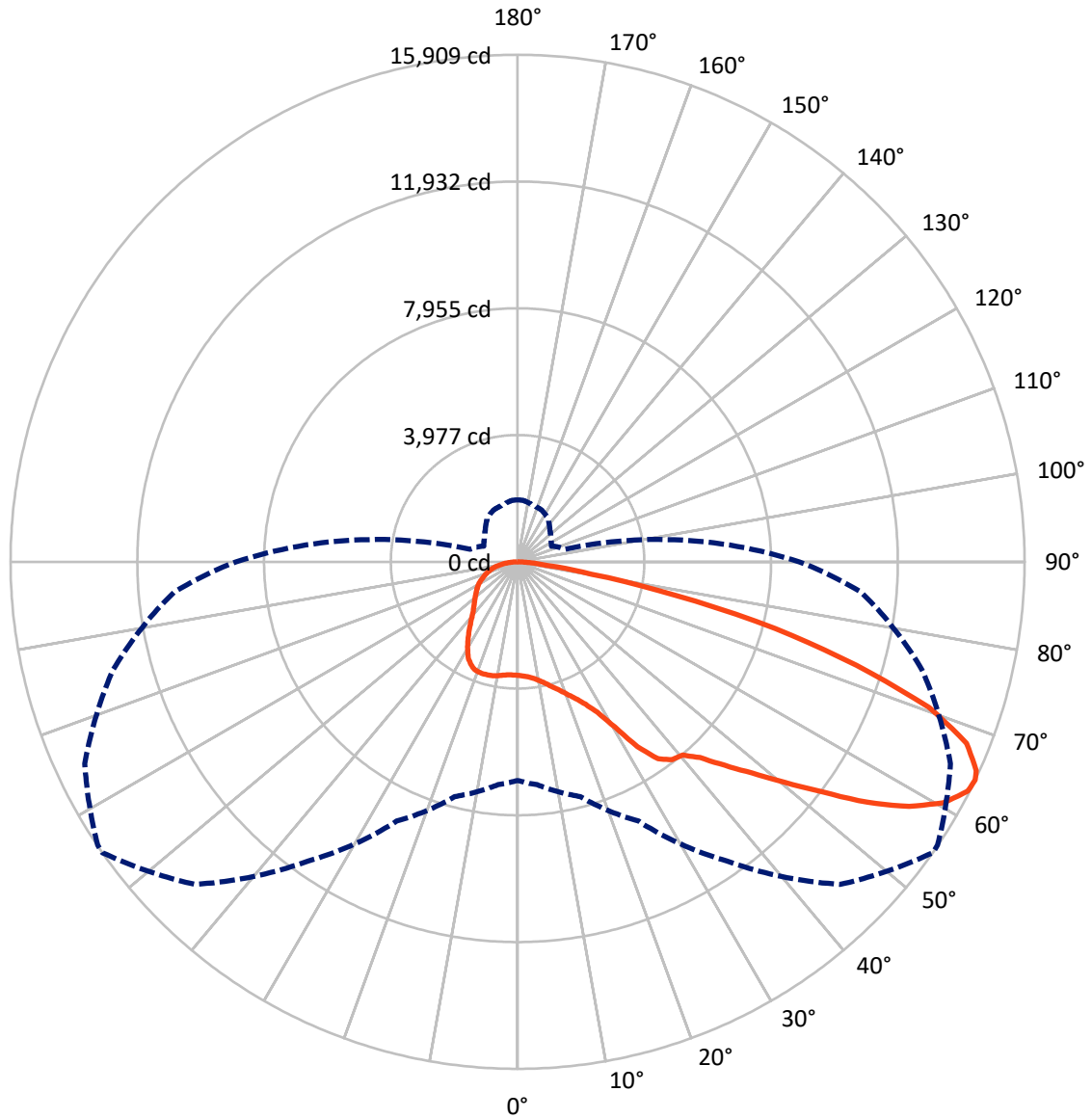
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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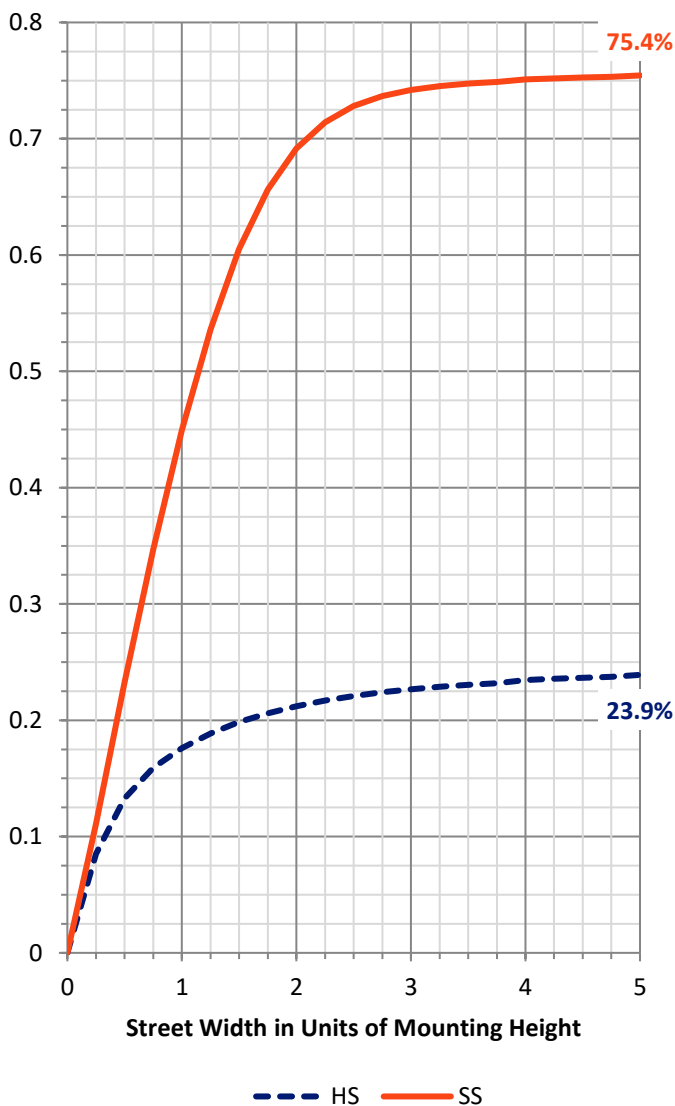
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6453.1	0.0	6453.1
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	20111.6	0.0	20111.6
	% Fixture	75.7	0.0	75.7
Total	Lumens	26564.7	0.0	26564.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.7	1.3
10°-20°	1093.9	4.1
20°-30°	1947.5	7.3
30°-40°	2996.4	11.3
40°-50°	4247.7	16.0
50°-60°	6148.5	23.1
60°-70°	6363.0	24.0
70°-80°	2979.8	11.2
80°-90°	441.1	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°	26564.7	100.0
0°-180°	26564.7	100.0

Coefficient of Utilization



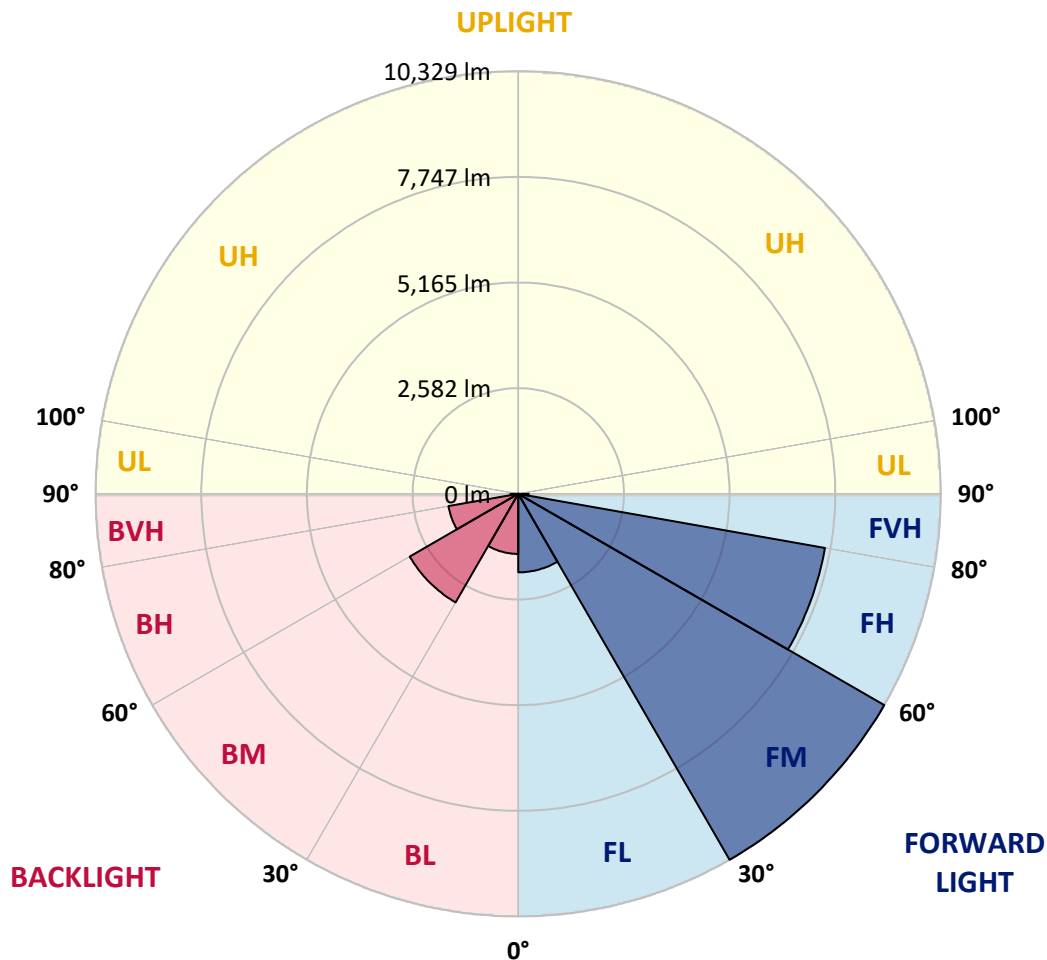
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1918.4	7.2			
FM (30°-60°)	10329.1	38.9			
FH (60°-80°)	7611.6	28.7			G4/12000
FVH (80°-90°)	252.6	1.0			G3/500
BL (0°-30°)	1469.8	5.5	B3/2500		
BM (30°-60°)	3063.5	11.5	B3/5000		
BH (60°-80°)	1731.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	188.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3564.2	3564.2	3564.2	3564.2	3564.2	3564.2	3564.2	3564.2	3564.2	3564.2	3564.2
2.5°	3604.2	3602.7	3607.1	3602.7	3605.6	3595.3	3590.8	3593.8	3589.4	3582.0	3568.6
5°	3648.6	3647.1	3648.6	3642.6	3645.7	3639.7	3629.3	3632.3	3624.9	3608.6	3589.4
7.5°	3724.1	3718.1	3718.1	3716.7	3710.7	3701.9	3694.5	3691.5	3684.1	3663.4	3633.8
10°	3821.8	3821.8	3823.3	3811.5	3818.9	3802.6	3795.2	3793.7	3768.5	3741.9	3700.4
12.5°	3950.7	3958.1	3953.6	3947.7	3944.7	3938.8	3913.6	3919.6	3891.4	3845.6	3795.2
15°	4110.6	4122.4	4115.0	4112.1	4104.7	4082.5	4072.0	4067.7	4030.6	3964.0	3897.4
17.5°	4322.3	4307.5	4301.6	4294.2	4263.1	4246.8	4229.1	4226.1	4193.5	4115.0	4011.4
20°	4507.4	4528.1	4516.3	4508.9	4477.8	4446.7	4433.4	4429.0	4400.8	4314.9	4149.1
22.5°	4728.0	4732.5	4736.9	4719.2	4704.4	4680.7	4657.0	4649.6	4639.2	4550.4	4347.5
25°	4963.5	4981.2	4966.4	4948.7	4931.0	4929.4	4951.6	4948.7	4944.2	4858.4	4611.0
27.5°	5347.0	5363.3	5367.8	5348.5	5280.4	5286.3	5336.6	5353.0	5421.0	5278.9	4950.1
30°	5563.2	5579.4	5616.5	5689.0	5797.2	5892.0	6013.3	6050.3	6115.5	5847.5	5353.0
32.5°	5696.4	5702.4	5769.0	5903.7	6228.0	6581.9	6912.2	6925.5	6966.9	6590.8	5721.7
35°	5906.8	5911.1	5964.5	6112.6	6493.1	7082.5	7593.3	7609.6	7575.6	6821.9	5893.4
37.5°	6165.9	6177.7	6211.8	6334.7	6789.2	7501.5	7876.1	7864.3	7562.2	7005.4	6197.0
40°	6543.5	6543.5	6503.5	6669.3	7101.7	7741.4	7975.4	7954.6	7874.6	7537.0	6659.0
42.5°	6876.6	6870.7	6965.5	7078.0	7492.6	8111.6	8391.4	8425.5	8557.3	8204.9	7184.7
45°	7310.5	7337.1	7390.5	7594.8	8157.4	8743.9	9105.2	9137.7	9324.3	8991.1	7799.1
47.5°	7748.8	7757.6	7925.0	8197.5	8980.8	9601.2	9897.4	9950.7	10120.9	9910.7	8461.0
50°	8059.7	8144.2	8412.2	8841.6	9829.3	10646.6	10877.7	10941.3	11241.9	10911.7	9232.5
52.5°	8388.5	8471.4	8798.6	9453.2	10803.6	11715.7	12000.1	12043.0	12355.4	11924.5	10021.8
55°	8669.8	8746.8	9118.5	9995.1	11579.5	12807.1	13322.4	13272.0	13421.5	12704.9	10630.3
57.5°	8715.7	8777.9	9245.9	10341.6	12162.9	13742.9	14481.8	14511.4	14338.1	13288.3	11132.3
60°	8360.4	8487.7	9025.2	10304.6	12425.0	14394.4	15346.6	15367.3	14875.7	13587.4	11332.2
62.5°	7731.1	7717.7	8367.8	9709.3	12057.8	14542.5	15856.0	15833.7	15085.9	13443.8	11138.2
64°	6861.8	7021.8	7628.9	8977.8	11465.5	14314.5	15909.2	15897.4	14985.3	13144.7	10808.0
65°	6331.7	6322.8	6922.5	8379.6	10876.1	13970.9	15814.5	15798.2	14774.9	12876.6	10551.9
67.5°	4571.1	4591.9	5184.1	6466.4	8841.6	12627.9	15197.0	15136.2	13945.7	11988.2	9577.6
70°	2769.0	2780.9	3245.8	4289.8	6346.5	10208.3	13698.5	13701.4	12676.7	10661.4	8151.6
72.5°	1458.5	1489.7	1676.2	2435.9	3854.4	7162.4	11113.1	11376.6	10883.5	9099.2	6439.8
75°	811.5	815.9	947.7	1200.9	1966.4	4008.4	8352.9	8428.4	8616.5	7323.8	4762.1
77.5°	619.0	627.8	669.3	775.9	1070.6	1858.4	5055.3	5434.4	6072.6	5163.4	2717.2
80°	502.0	510.8	546.4	610.1	712.2	881.0	2348.5	2552.9	3250.3	2292.2	1060.2
82.5°	390.9	385.0	430.9	472.4	518.2	521.3	964.0	1066.1	1323.8	986.2	459.0
85°	290.2	290.2	327.2	318.4	334.6	305.0	425.0	469.4	530.1	419.1	213.2
87.5°	115.5	127.3	214.7	192.5	149.5	119.9	156.9	165.8	183.6	164.3	88.8
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°	3564.2	3564.2	3564.2	3564.2	3564.2	3564.2	3564.2	3564.2	3564.2	3564.2	3564.2
2.5°	3570.1	3574.5	3564.2	3556.8	3553.8	3549.4	3544.9	3546.4	3552.3	3558.3	3556.8
5°	3587.9	3589.4	3571.6	3562.7	3556.8	3550.9	3550.9	3555.3	3567.1	3576.0	3576.0
7.5°	3632.3	3632.3	3607.1	3590.8	3582.0	3571.6	3568.6	3570.1	3579.0	3590.8	3592.3
10°	3701.9	3695.9	3663.4	3638.3	3621.9	3596.8	3574.5	3562.7	3567.1	3574.5	3574.5
12.5°	3786.3	3770.0	3728.6	3694.5	3654.5	3607.1	3561.2	3537.5	3536.1	3543.5	3540.5
15°	3876.6	3858.8	3801.1	3738.9	3669.3	3599.7	3544.9	3510.8	3484.2	3476.8	3493.1
17.5°	3981.7	3944.7	3864.7	3778.9	3675.3	3584.9	3499.1	3429.4	3382.1	3368.7	3373.2
20°	4109.1	4060.3	3952.1	3817.4	3670.8	3531.6	3398.3	3305.0	3228.0	3204.4	3207.3
22.5°	4285.3	4200.9	4042.4	3836.6	3633.8	3430.9	3245.8	3124.4	3031.1	2994.0	3016.3
25°	4485.2	4393.4	4128.4	3832.2	3537.5	3269.5	3065.2	2906.7	2822.3	2767.6	2779.3
27.5°	4760.6	4597.7	4220.1	3792.2	3399.8	3072.6	2835.7	2686.1	2609.1	2580.9	2594.3
30°	5113.0	4862.8	4319.4	3684.1	3182.2	2823.8	2604.7	2506.9	2461.0	2425.4	2437.3
32.5°	5367.8	5049.4	4341.6	3502.0	2946.7	2597.3	2447.6	2375.2	2324.8	2290.7	2298.1
35°	5549.8	5207.8	4331.2	3278.4	2700.9	2410.6	2323.3	2264.1	2182.6	2108.6	2095.3
37.5°	5794.2	5406.2	4255.7	3034.1	2458.1	2284.8	2222.6	2113.0	1996.0	1896.9	1892.4
40°	6168.8	5638.7	4094.3	2746.8	2250.8	2191.5	2116.0	1973.8	1848.0	1768.0	1762.1
42.5°	6555.3	5853.4	3875.2	2444.7	2080.5	2093.8	2002.0	1861.3	1784.3	1732.5	1726.6
45°	7027.6	6085.9	3638.3	2182.6	1954.6	2002.0	1902.8	1821.4	1775.4	1741.4	1732.5
47.5°	7538.6	6324.3	3371.7	1947.2	1848.0	1917.6	1861.3	1824.3	1799.2	1775.4	1765.1
50°	8089.3	6590.8	3121.5	1757.7	1751.7	1830.2	1856.8	1843.6	1828.8	1821.4	1812.4
52.5°	8693.5	6863.3	2911.2	1624.4	1667.4	1768.0	1858.4	1868.7	1868.7	1864.2	1858.4
55°	9102.2	7052.8	2697.9	1516.3	1581.4	1717.7	1855.4	1895.4	1910.2	1904.3	1898.3
57.5°	9404.3	7156.5	2429.9	1423.0	1508.9	1668.8	1839.1	1898.3	1913.1	1920.5	1917.6
60°	9466.5	7060.3	2079.0	1325.2	1430.4	1597.7	1779.9	1853.9	1873.2	1919.1	1923.5
62.5°	9186.6	6764.1	1729.5	1229.0	1334.2	1489.7	1699.9	1803.5	1842.0	1913.1	1920.5
64°	8843.0	6432.4	1535.6	1168.3	1271.9	1428.9	1660.0	1790.2	1840.6	1935.3	1941.3
65°	8591.3	6191.0	1414.1	1129.8	1232.0	1388.9	1637.7	1794.7	1853.9	1969.4	1978.3
67.5°	7664.4	5360.4	1169.8	1039.5	1137.2	1320.9	1642.1	1831.7	1851.0	1982.7	1981.2
70°	6342.1	4267.6	980.3	956.6	1045.4	1266.0	1624.4	1772.5	1773.9	1861.3	1840.6
72.5°	4748.8	3154.0	849.9	870.7	943.3	1135.8	1534.1	1692.5	1667.4	1679.1	1658.5
75°	3262.1	2086.4	731.5	778.9	836.6	1004.0	1406.7	1537.0	1497.1	1482.3	1467.5
77.5°	1741.4	1153.5	608.6	688.5	727.0	867.7	1227.5	1353.4	1312.0	1254.2	1234.9
80°	704.8	543.5	490.1	570.1	592.3	699.0	1021.7	1100.2	1069.1	968.4	935.9
82.5°	353.9	325.8	385.0	448.7	450.2	499.0	759.6	833.7	764.0	641.2	613.0
85°	185.1	191.0	265.1	315.4	278.4	269.5	456.1	504.9	463.5	402.8	362.8
87.5°	66.6	77.0	139.2	137.7	97.7	51.8	100.7	48.9	26.7	16.3	20.7
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)