

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: P647993

Luminaire Tested: **GALN-SA6A-835-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-835-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20784 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

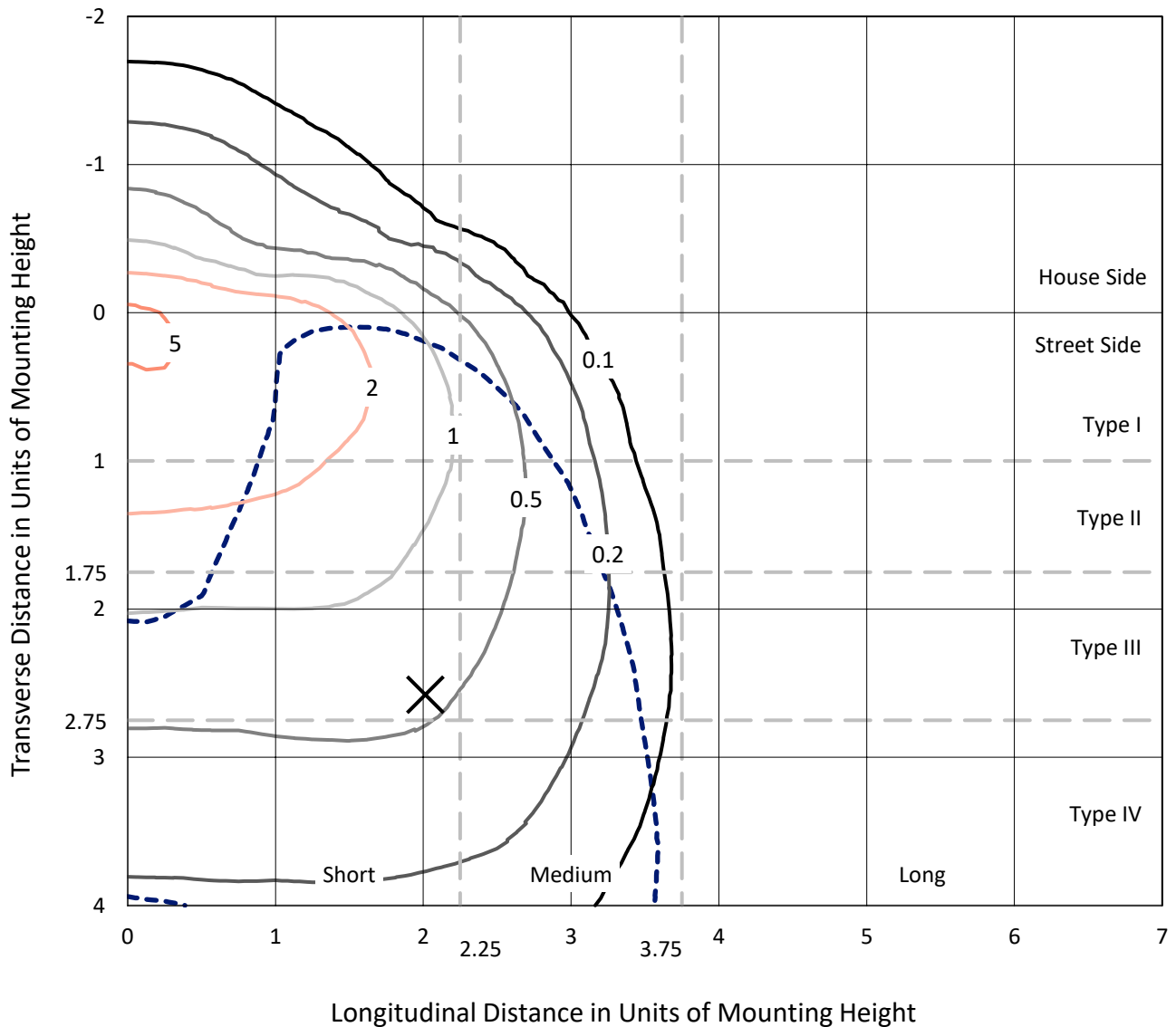
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

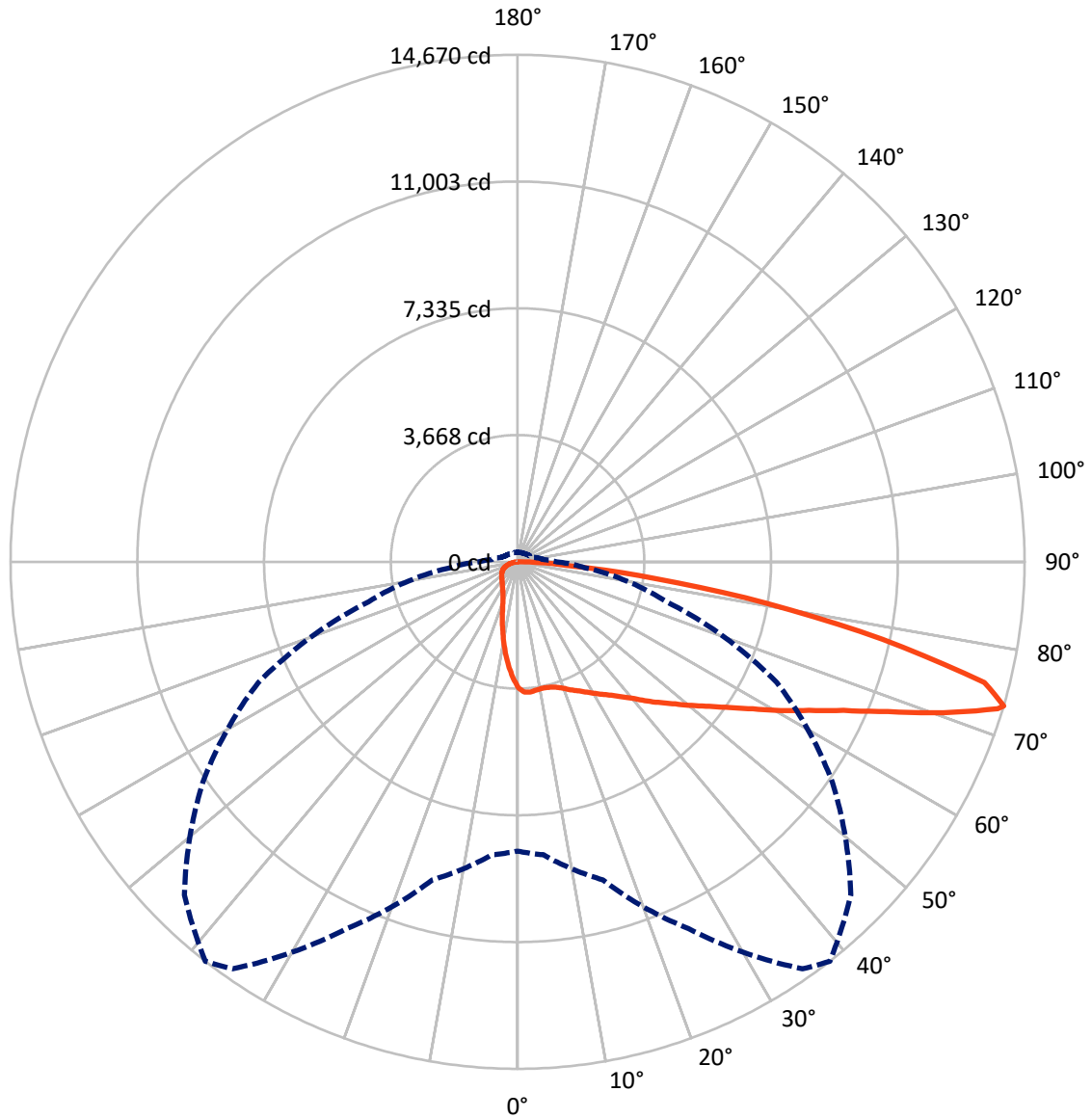
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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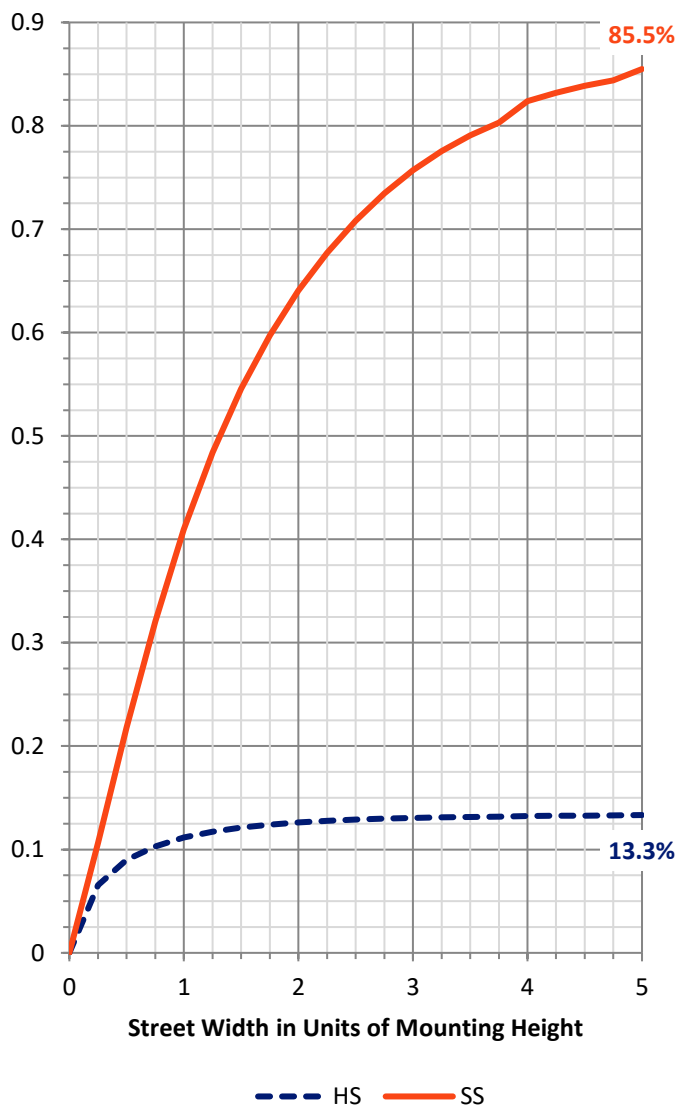
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2794.0	0.0	2794.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	17990.0	0.0	17990.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	20784.0	0.0	20784.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.7	1.5
10°-20°	817.3	3.9
20°-30°	1272.7	6.1
30°-40°	1866.8	9.0
40°-50°	2769.2	13.3
50°-60°	3923.4	18.9
60°-70°	4976.9	23.9
70°-80°	4142.9	19.9
80°-90°	696.1	3.3
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°	20784.0	100.0
0°-180°	20784.0	100.0

Coefficient of Utilization

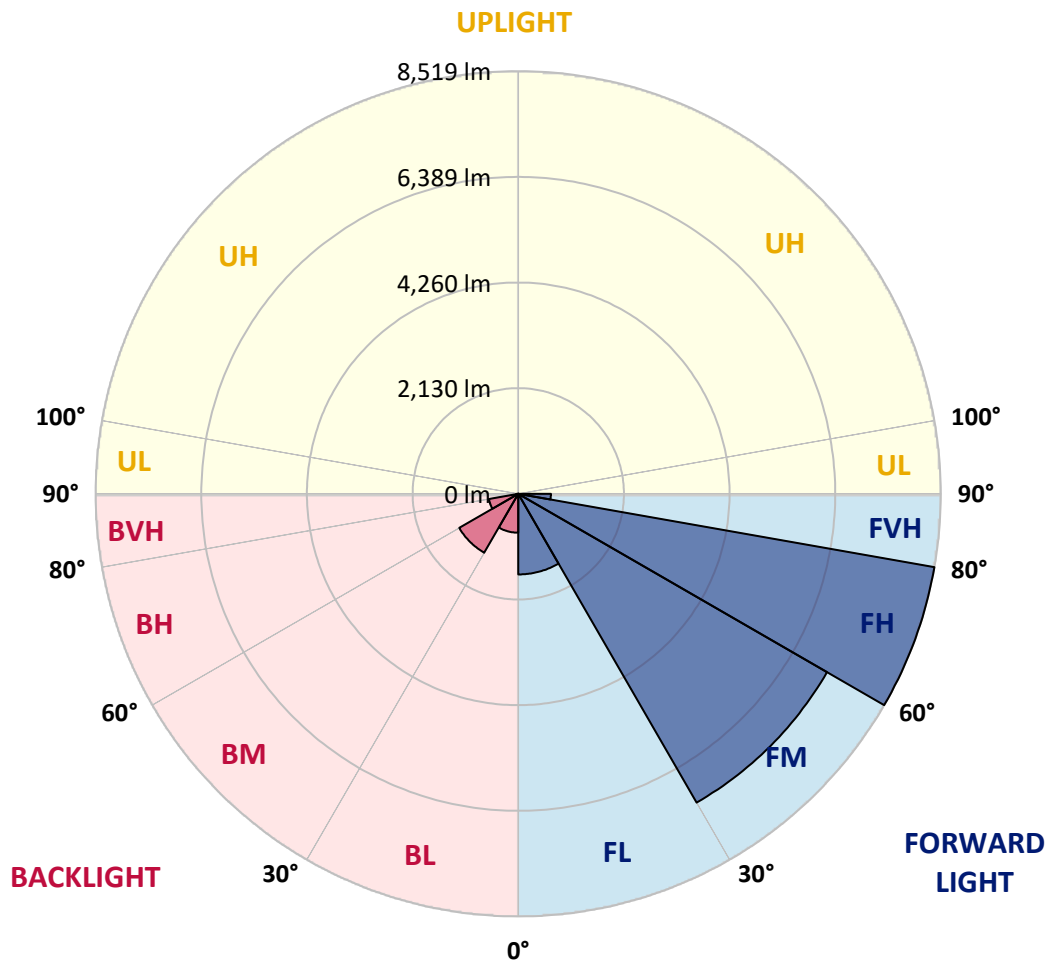


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1624.7	7.8			
FM (30°-60°)	7187.6	34.6			
FH (60°-80°)	8519.3	41.0			G4/12000
FVH (80°-90°)	658.3	3.2			G4/750
BL (0°-30°)	784.0	3.8	B2/1000		
BM (30°-60°)	1371.7	6.6	B2/2500		
BH (60°-80°)	600.5	2.9	B2/1000		G2/1000
BVH (80°-90°)	37.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3651.4	3651.4	3651.4	3651.4	3651.4	3651.4	3651.4	3651.4	3651.4	3651.4	3651.4
2.5°	3798.1	3816.9	3807.5	3794.6	3786.4	3778.1	3766.4	3732.4	3705.4	3676.0	3630.2
5°	3826.3	3838.0	3829.8	3813.4	3794.6	3786.4	3764.0	3719.5	3676.0	3626.8	3558.7
7.5°	3809.8	3814.5	3805.1	3785.2	3768.7	3753.5	3727.7	3678.4	3625.6	3565.7	3476.5
10°	3751.1	3768.7	3768.7	3752.3	3735.9	3727.7	3701.9	3654.9	3606.8	3538.7	3433.1
12.5°	3703.0	3721.8	3737.1	3732.4	3731.2	3731.2	3711.3	3676.0	3619.7	3555.1	3429.5
15°	3670.2	3692.5	3725.4	3744.1	3755.8	3759.3	3751.1	3720.7	3663.1	3588.0	3443.6
17.5°	3663.1	3690.1	3749.9	3791.1	3821.6	3820.4	3818.1	3775.8	3712.4	3634.9	3461.3
20°	3694.8	3730.1	3813.4	3877.9	3922.5	3914.3	3901.4	3846.3	3772.3	3685.4	3477.7
22.5°	3789.9	3826.3	3917.8	3988.2	4031.7	4031.7	3992.9	3920.2	3841.6	3744.1	3500.0
25°	3926.0	3966.0	4063.4	4134.9	4154.9	4139.6	4100.9	4012.9	3922.5	3828.6	3546.9
27.5°	4092.7	4140.8	4231.2	4291.1	4285.2	4273.5	4233.5	4120.9	4030.5	3944.8	3626.8
30°	4300.5	4335.6	4429.6	4443.6	4422.5	4420.2	4363.8	4251.1	4166.7	4100.9	3740.6
32.5°	4496.5	4528.2	4603.3	4609.1	4571.5	4576.2	4523.5	4420.2	4372.0	4348.5	3931.9
35°	4704.2	4720.6	4785.1	4778.2	4753.5	4750.0	4728.9	4630.3	4645.5	4687.7	4203.1
37.5°	4877.9	4910.7	4947.2	4953.0	4951.8	4963.6	4977.7	4930.7	5018.7	5151.4	4558.6
40°	5037.5	5065.7	5119.7	5138.4	5184.2	5207.7	5255.8	5257.0	5460.1	5678.4	4996.5
42.5°	5145.5	5193.6	5294.6	5328.6	5440.1	5510.5	5582.2	5658.4	5953.0	6233.5	5512.9
45°	5239.4	5302.8	5470.7	5576.3	5727.6	5813.4	5964.7	6124.4	6548.1	6915.5	6037.6
47.5°	5381.4	5437.8	5630.2	5816.9	6045.8	6144.4	6370.9	6609.1	7163.1	7565.7	6539.9
50°	5578.6	5612.6	5808.7	6112.6	6404.9	6531.6	6831.0	7174.9	7820.4	8207.7	6981.1
52.5°	5830.9	5845.0	6001.1	6406.0	6791.0	6948.3	7345.0	7746.5	8395.5	8765.2	7330.9
55°	6129.1	6105.6	6227.7	6717.1	7232.3	7437.7	7863.8	8325.1	9042.2	9215.9	7585.6
57.5°	6423.7	6387.3	6484.7	7095.0	7777.0	8024.6	8521.1	8921.3	9619.7	9637.2	7764.1
60°	6735.9	6708.9	6825.1	7538.7	8444.8	8738.2	9197.1	9539.8	10178.4	9930.7	7792.2
62.5°	7056.3	7012.9	7178.4	8037.5	9197.1	9463.6	9908.4	10197.1	10726.5	10039.9	7521.1
65°	7367.3	7347.4	7603.2	8630.2	10054.0	10356.7	10788.6	10984.7	11165.4	9875.5	6848.6
67.5°	7698.3	7738.2	8146.6	9421.3	11171.3	11551.6	12017.6	11833.2	11291.0	9097.4	5767.6
70°	8203.0	8228.9	8860.3	10457.7	12611.5	13070.4	13295.7	12134.9	10685.4	7619.7	4335.6
72.5°	8420.1	8534.0	9497.6	11545.7	14247.5	14528.1	13725.3	11462.4	8901.4	5176.0	2278.1
73°	8372.0	8508.2	9526.9	11711.2	14375.5	14670.1	13633.8	11116.2	8274.6	4457.7	1953.0
75°	7772.3	7940.1	9145.5	11572.7	14126.7	13950.6	12161.9	9474.1	5591.5	2027.0	889.6
77.5°	6132.6	6180.7	7246.4	9345.0	11124.3	10798.0	9102.1	5921.4	2284.0	753.5	504.7
80°	3076.3	3253.5	4084.5	5353.3	7438.9	7332.1	5745.3	2800.5	951.9	442.5	334.5
82.5°	1480.0	1605.6	1989.4	2610.3	4110.3	4012.9	2845.0	1530.5	604.5	258.2	197.2
85°	953.1	1046.9	1266.4	1245.3	1690.1	1613.8	1278.2	1158.4	358.0	135.0	137.3
87.5°	629.1	689.0	826.3	660.8	615.0	556.3	564.5	652.6	70.4	51.7	18.8
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°	3651.4	3651.4	3651.4	3651.4	3651.4	3651.4	3651.4	3651.4	3651.4	3651.4	3651.4
2.5°	3611.5	3596.2	3545.7	3496.5	3449.5	3404.9	3375.6	3336.8	3311.0	3318.0	3328.6
5°	3521.1	3487.1	3397.9	3311.0	3228.9	3131.5	3052.8	2989.4	2941.3	2923.7	2920.2
7.5°	3426.0	3368.5	3240.6	3091.5	2951.8	2830.9	2691.3	2622.0	2541.1	2512.9	2503.5
10°	3368.5	3291.0	3111.5	2903.8	2693.7	2492.9	2341.6	2218.3	2106.8	2085.7	2075.1
12.5°	3352.1	3250.0	3008.2	2740.6	2461.3	2214.8	1990.6	1828.6	1720.6	1696.0	1659.6
15°	3342.7	3215.9	2912.0	2576.3	2221.8	1921.3	1685.4	1496.5	1397.9	1332.1	1333.3
17.5°	3334.5	3177.2	2804.0	2396.7	2015.3	1669.0	1408.5	1238.2	1147.9	1112.6	1109.1
20°	3322.7	3131.5	2679.6	2207.7	1779.4	1439.0	1203.1	1076.3	1015.2	985.9	984.7
22.5°	3318.0	3086.8	2557.5	2015.3	1570.4	1261.7	1066.9	977.7	939.0	919.0	919.0
25°	3329.8	3055.1	2429.6	1832.1	1385.0	1110.3	973.0	912.0	889.6	879.1	875.6
27.5°	3366.2	3041.1	2302.8	1649.1	1214.7	1007.0	909.6	867.3	851.0	842.7	843.9
30°	3435.4	3039.9	2178.4	1468.3	1088.1	928.4	859.2	829.8	816.9	812.2	811.0
32.5°	3546.9	3065.7	2056.3	1319.3	981.2	862.7	812.2	791.1	785.2	781.7	780.5
35°	3735.9	3138.5	1935.4	1183.1	899.0	804.0	767.6	757.0	748.9	752.3	753.5
37.5°	3990.6	3264.1	1820.4	1076.3	836.9	760.5	730.1	720.7	716.0	719.5	723.0
40°	4332.1	3444.8	1724.2	990.6	792.2	724.2	697.2	689.0	684.3	690.1	691.3
42.5°	4708.9	3653.7	1644.4	923.7	755.8	693.7	667.8	658.4	654.9	658.4	659.6
45°	5096.2	3896.7	1603.3	875.6	725.4	671.3	644.3	633.8	625.6	623.3	626.8
47.5°	5477.6	4107.9	1602.1	846.3	700.7	651.4	622.1	610.3	599.8	593.9	592.7
50°	5788.7	4275.8	1630.3	833.3	679.6	629.1	599.8	588.0	573.9	562.2	564.5
52.5°	6023.5	4385.0	1643.2	827.5	667.8	605.7	576.3	565.7	549.3	534.0	534.0
55°	6174.8	4410.8	1611.5	821.6	658.4	581.0	549.3	539.9	523.4	508.2	508.2
57.5°	6226.5	4330.9	1497.6	807.5	649.0	559.8	522.3	514.1	501.2	485.9	483.6
60°	6106.8	4061.0	1298.1	765.2	630.3	537.5	493.0	489.5	484.8	471.8	470.7
62.5°	5645.5	3488.3	1081.0	710.1	598.6	514.1	466.0	471.8	475.4	468.3	467.1
65°	4877.9	2832.1	923.7	633.8	556.3	481.2	436.6	451.9	461.3	461.3	458.9
67.5°	3956.6	2174.9	778.1	568.1	503.5	436.6	403.7	415.5	422.5	420.2	426.0
70°	2812.2	1473.0	633.8	493.0	436.6	386.2	361.5	361.5	356.8	354.5	354.5
72.5°	1363.8	841.6	514.1	411.9	372.1	329.8	309.8	301.6	292.2	291.0	285.2
73°	1139.7	754.7	490.6	396.7	356.8	321.6	299.3	286.4	280.5	275.9	274.7
75°	693.7	572.8	409.6	334.5	304.0	277.0	257.1	245.3	239.4	235.9	234.7
77.5°	456.6	427.2	318.1	255.9	232.4	216.0	207.7	196.0	192.5	187.8	187.8
80°	340.4	326.3	227.7	180.7	166.7	152.6	150.3	147.9	138.5	132.6	130.3
82.5°	219.5	232.4	155.0	120.9	105.6	93.9	95.1	98.6	89.2	81.0	78.6
85°	156.1	167.9	93.9	55.2	44.6	38.8	43.5	38.8	39.9	31.7	25.8
87.5°	25.8	44.6	16.4	7.0	3.5	2.3	0.0	0.0	0.0	0.0	0.0
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)