

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: P652336

Luminaire Tested: **GALN-SA4B-840-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652336
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-840-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18763.6 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

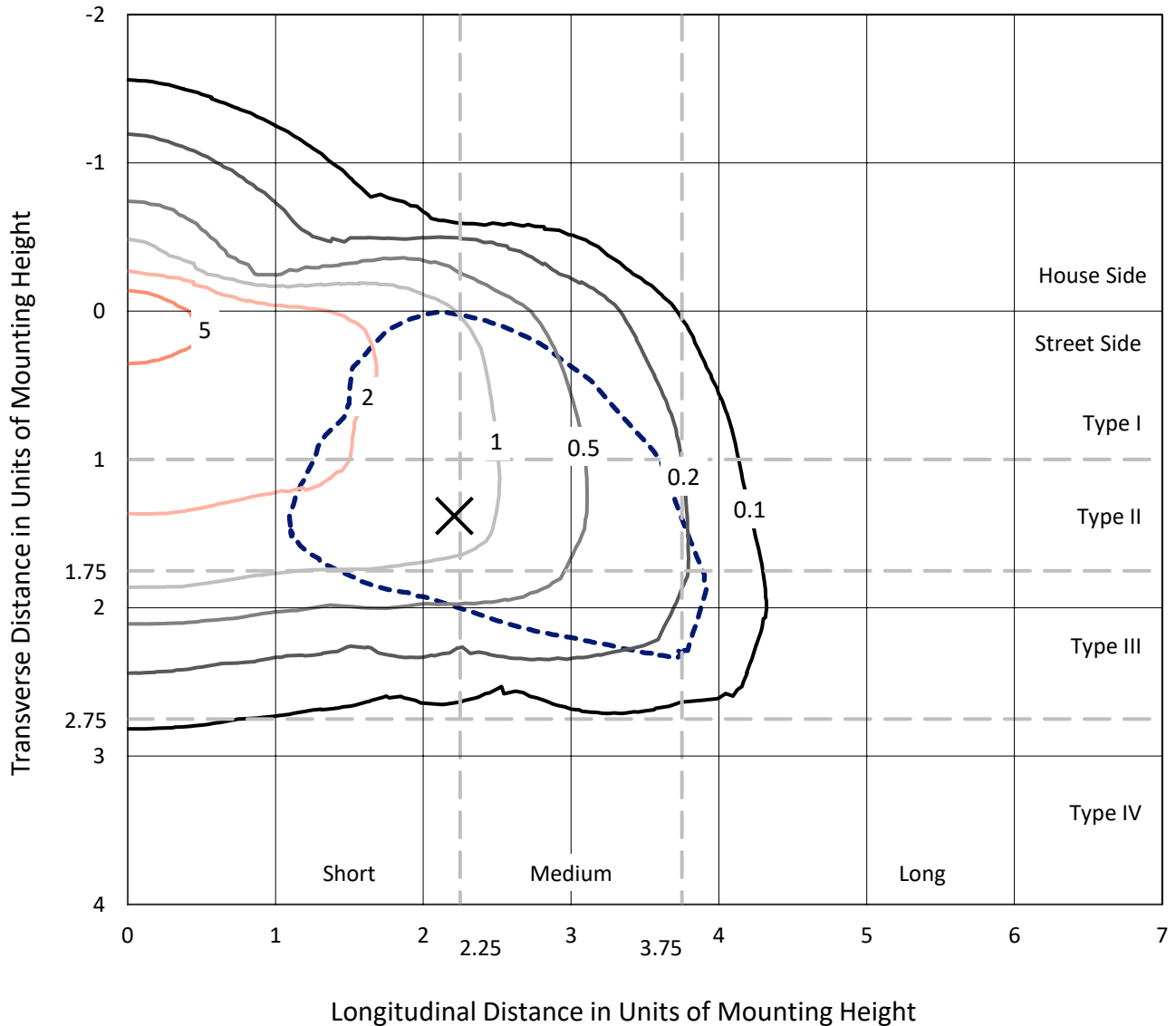
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

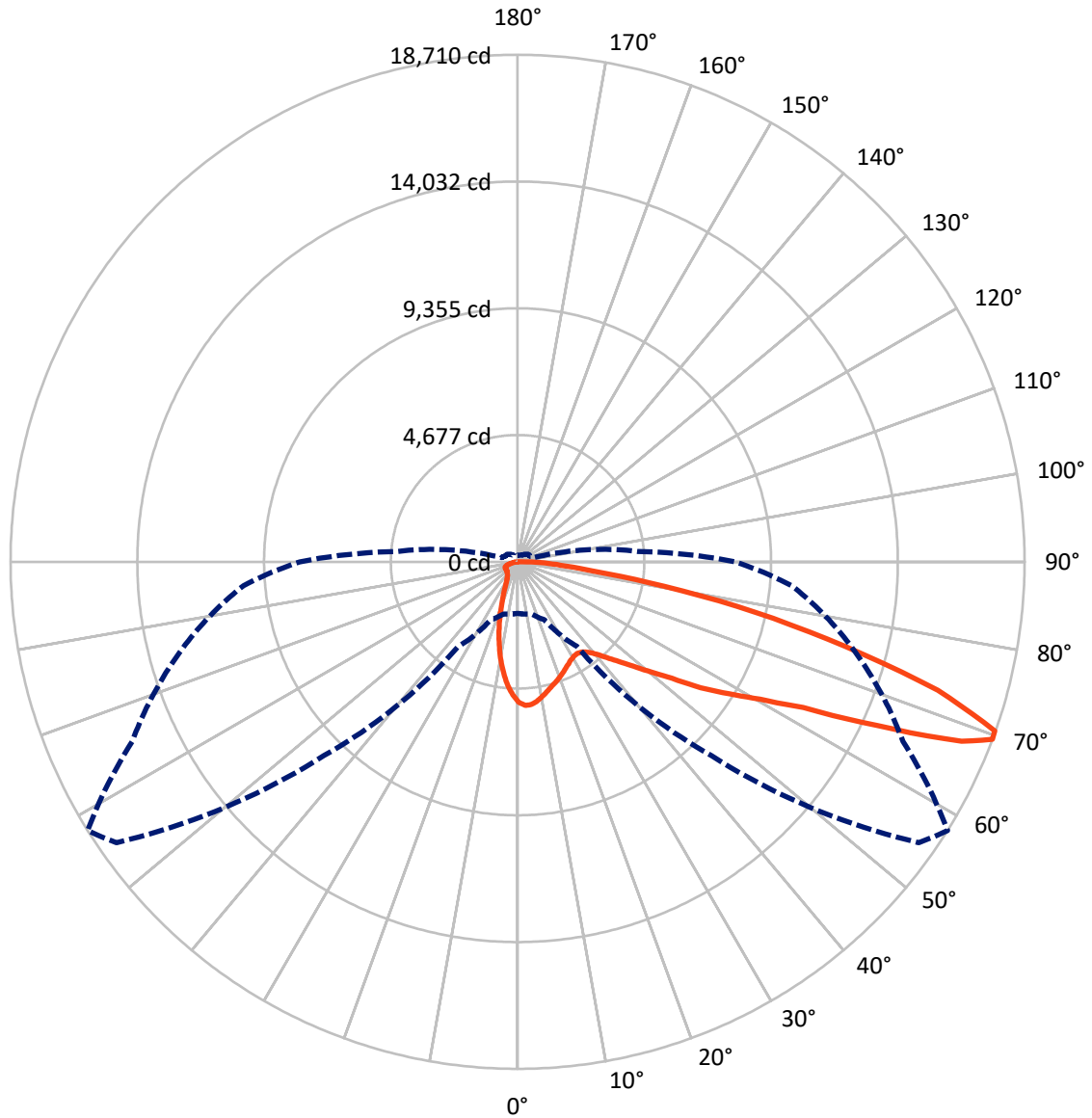
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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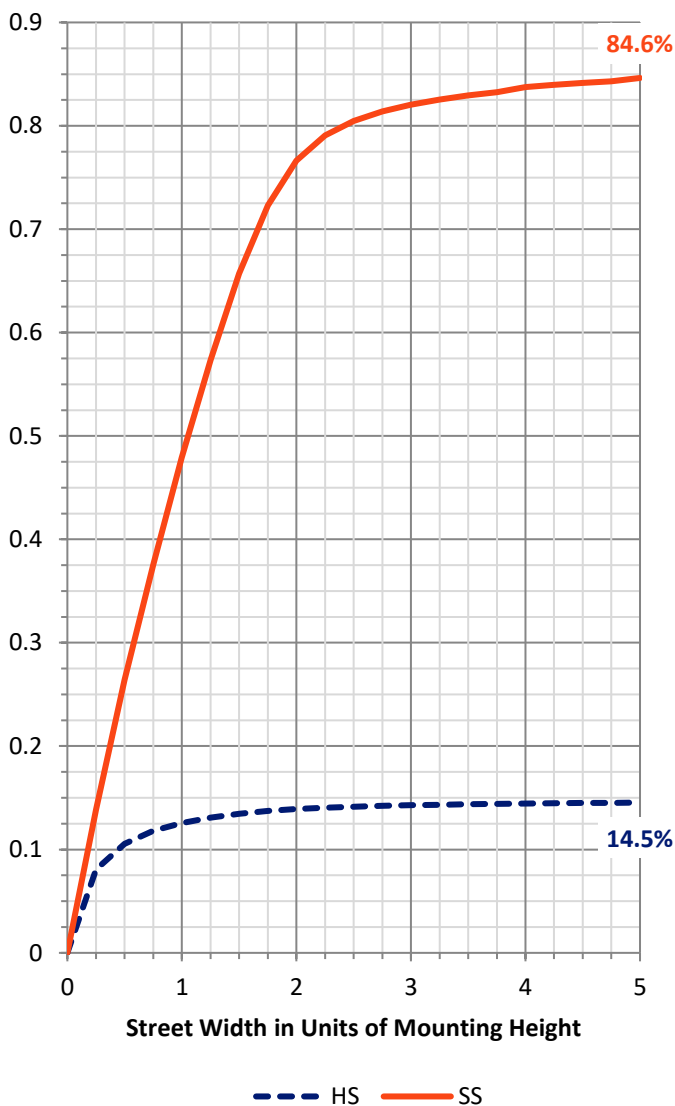
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2749.8	0.0	2749.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	16013.8	0.0	16013.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	18763.6	0.0	18763.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.3	2.3
10°-20°	966.9	5.2
20°-30°	1249.3	6.7
30°-40°	1622.6	8.6
40°-50°	2359.0	12.6
50°-60°	3764.2	20.1
60°-70°	5028.4	26.8
70°-80°	2898.7	15.4
80°-90°	434.2	2.3
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°	18763.6	100.0
0°-180°	18763.6	100.0

Coefficient of Utilization



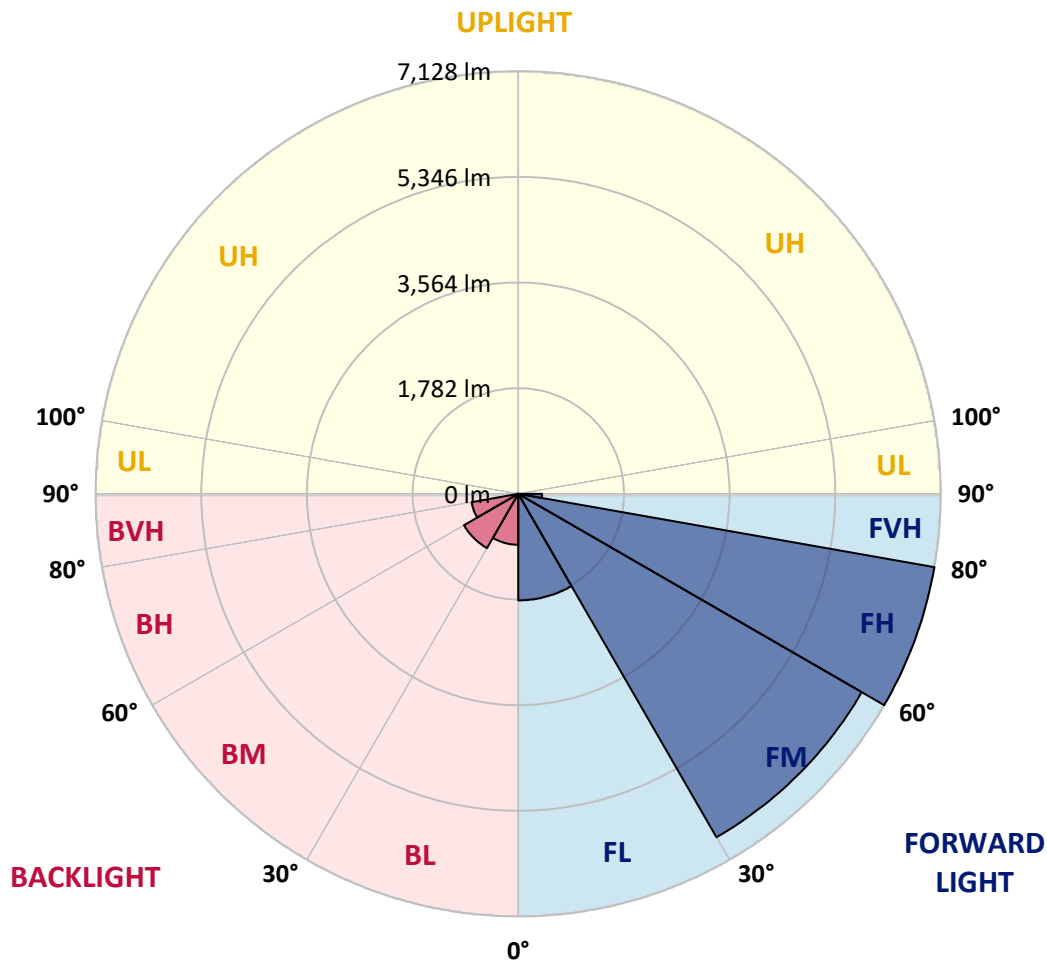
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1797.1	9.6			
FM (30°-60°)	6688.2	35.6			
FH (60°-80°)	7127.6	38.0			G3/7500
FVH (80°-90°)	400.9	2.1			G3/500
BL (0°-30°)	859.5	4.6	B2/1000		
BM (30°-60°)	1057.5	5.6	B2/2500		
BH (60°-80°)	799.6	4.3	B2/1000		G2/1000
BVH (80°-90°)	33.3	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5185.2	5185.2	5185.2	5185.2	5185.2	5185.2	5185.2	5185.2	5185.2	5185.2	5185.2
2.5°	5377.7	5392.3	5388.1	5382.9	5374.6	5351.5	5313.9	5307.6	5283.5	5232.2	5168.4
5°	5295.0	5307.6	5308.6	5316.0	5326.4	5322.3	5295.0	5291.9	5256.3	5187.2	5080.5
7.5°	5011.4	5028.2	5064.8	5105.6	5142.2	5176.8	5185.2	5190.4	5168.4	5088.9	4946.6
10°	4692.3	4709.0	4725.7	4786.5	4876.5	4962.2	5033.4	5042.8	5048.1	4974.9	4801.1
12.5°	4338.6	4373.1	4408.7	4498.7	4619.0	4754.0	4879.6	4899.5	4935.1	4879.6	4675.5
15°	4038.2	4073.8	4125.1	4205.7	4351.2	4545.8	4722.6	4755.1	4825.2	4796.9	4558.3
17.5°	3830.0	3842.5	3878.1	3970.2	4127.2	4332.3	4568.8	4633.7	4745.7	4738.3	4457.9
20°	3665.7	3681.4	3703.3	3759.9	3923.1	4139.7	4425.4	4509.1	4660.9	4686.0	4358.5
22.5°	3596.6	3608.1	3605.0	3635.4	3746.3	3964.0	4279.9	4379.4	4585.6	4650.4	4266.4
25°	3600.8	3611.3	3595.6	3588.3	3654.2	3809.1	4128.2	4254.9	4524.8	4626.3	4182.6
27.5°	3671.0	3678.3	3648.9	3619.7	3624.9	3712.8	4002.7	4142.9	4473.5	4636.8	4112.6
30°	3765.2	3778.7	3759.9	3724.3	3685.6	3689.8	3922.1	4060.2	4449.5	4673.4	4079.0
32.5°	3886.5	3899.0	3890.7	3862.5	3812.2	3756.7	3902.2	4029.9	4451.6	4747.7	4071.7
35°	4014.2	4039.3	4052.9	4050.8	4010.0	3913.7	3980.7	4086.4	4501.8	4872.2	4114.6
37.5°	4158.6	4179.5	4238.1	4275.8	4238.1	4126.1	4157.6	4230.8	4612.7	5052.2	4208.8
40°	4298.8	4330.2	4416.0	4533.2	4518.5	4420.2	4427.5	4475.6	4808.4	5320.2	4393.0
42.5°	4445.3	4483.0	4632.6	4806.3	4840.9	4764.4	4784.4	4827.3	5086.8	5691.6	4709.0
45°	4633.7	4678.7	4862.8	5079.5	5215.5	5168.4	5224.9	5245.8	5459.4	6175.1	5125.5
47.5°	4876.5	4928.8	5155.8	5425.8	5618.4	5661.3	5759.7	5747.1	5920.8	6747.5	5665.5
50°	5285.6	5314.9	5529.4	5804.7	6069.4	6263.0	6369.7	6389.6	6493.2	7304.2	6269.2
52.5°	5772.2	5798.4	5953.3	6193.9	6525.7	6935.9	7199.5	7134.7	7159.8	7982.3	6975.6
55°	6319.5	6363.4	6461.8	6621.9	7052.0	7655.8	8185.3	8201.0	7922.6	8631.1	7652.7
57.5°	6743.3	6817.6	6986.1	7214.2	7759.4	8456.3	9167.9	9178.4	8822.6	9323.8	8399.8
60°	6529.9	6617.7	7002.8	7558.5	8687.6	9853.3	10342.0	10282.4	9698.5	10112.9	9311.3
62.5°	5609.0	5624.7	6184.5	7053.0	8973.3	11722.3	12089.6	11837.4	10867.3	11113.3	10237.4
65°	3630.1	3732.7	4176.4	5393.4	8034.7	12759.3	15151.5	14568.6	12506.1	12248.7	11012.8
67.5°	2291.7	2265.6	2449.7	3079.7	5526.3	11845.8	17764.5	17672.4	14649.2	12965.4	10827.6
69°	1900.3	1929.7	1992.4	2360.8	3802.7	10114.0	18073.2	18709.5	15688.4	12909.0	10154.7
70°	1723.5	1737.1	1803.0	2092.9	2934.2	8471.0	17566.7	18681.2	16096.5	12672.4	9667.0
72.5°	1367.7	1366.6	1479.7	1741.3	2193.3	4835.7	14424.2	16218.9	15640.2	11571.7	7987.6
75°	1039.1	1055.9	1180.4	1473.4	2020.7	2642.3	10065.8	12490.4	12491.5	9139.7	4984.3
77.5°	749.2	759.8	905.2	1236.9	1903.5	2142.1	6704.6	8958.7	8421.8	4187.8	1566.5
80°	490.8	497.0	608.0	979.5	1716.1	2020.7	3975.5	5483.4	3972.3	1111.3	518.0
82.5°	269.0	300.3	371.5	634.1	1377.1	1866.9	2416.3	2775.2	1490.2	494.9	270.0
85°	135.0	143.4	209.3	370.5	900.0	1544.6	1682.7	1591.7	769.2	245.9	140.2
87.5°	39.8	50.2	86.9	143.4	365.2	804.8	936.5	840.3	296.1	89.0	29.3
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°	5185.2	5185.2	5185.2	5185.2	5185.2	5185.2	5185.2	5185.2	5185.2	5185.2	5185.2
2.5°	5142.2	5123.4	5039.7	4964.3	4895.3	4822.0	4760.3	4705.9	4711.1	4712.1	4656.7
5°	5025.1	4982.2	4823.1	4674.4	4548.9	4389.9	4253.8	4165.9	4122.0	4063.4	4084.3
7.5°	4865.9	4783.3	4562.5	4315.5	4084.3	3878.1	3654.2	3500.3	3402.0	3306.8	3319.3
10°	4701.7	4568.8	4247.6	3921.1	3621.8	3292.1	3006.4	2761.6	2579.5	2511.5	2466.5
12.5°	4533.2	4358.5	3950.3	3516.1	3102.7	2708.2	2303.2	2040.6	1839.7	1732.9	1746.5
15°	4379.4	4167.0	3640.6	3111.1	2574.3	2104.4	1700.5	1450.4	1310.2	1280.8	1297.6
17.5°	4237.0	3958.7	3350.7	2717.6	2090.8	1578.1	1277.7	1136.4	1079.9	1064.2	1063.2
20°	4090.5	3781.9	3025.2	2296.9	1629.4	1223.3	1048.6	982.6	972.1	978.4	979.5
22.5°	3941.9	3563.1	2690.4	1879.4	1297.6	1000.4	916.7	898.9	907.3	921.9	924.0
25°	3804.9	3370.6	2368.1	1513.1	1035.9	879.0	838.2	838.2	857.1	879.0	880.0
27.5°	3691.9	3184.4	2046.8	1201.3	867.5	791.1	777.5	784.8	811.0	827.7	828.8
30°	3598.7	3010.6	1743.4	962.7	762.9	721.0	717.9	730.4	749.2	765.0	766.0
32.5°	3528.6	2857.9	1459.8	808.9	690.6	667.7	666.6	676.0	686.5	690.6	694.8
35°	3501.4	2731.2	1200.3	711.6	642.5	627.9	627.9	626.8	631.0	633.1	635.2
37.5°	3523.4	2633.9	999.4	648.8	606.9	596.4	590.2	583.9	581.8	581.8	582.9
40°	3616.6	2582.6	849.7	608.0	581.8	566.2	554.6	547.3	540.0	542.0	544.1
42.5°	3814.3	2592.0	748.2	580.8	559.9	537.9	521.2	512.8	507.5	513.8	512.8
45°	4129.3	2686.2	683.3	562.0	537.9	509.6	493.9	485.6	485.6	494.9	498.1
47.5°	4569.8	2866.2	648.8	547.3	521.2	487.6	472.0	465.7	467.8	483.5	484.5
50°	5107.7	3179.1	642.5	540.0	512.8	472.0	454.1	447.9	453.1	469.9	472.0
52.5°	5701.1	3582.0	672.9	541.0	505.4	462.6	439.5	430.1	435.3	448.9	453.1
55°	6404.3	4086.4	751.3	545.2	494.9	457.3	429.1	408.1	414.4	423.8	424.9
57.5°	7122.1	4722.6	889.4	546.2	486.6	447.9	411.2	384.1	384.1	390.3	393.5
60°	7999.0	5415.4	1071.6	547.3	487.6	434.3	387.2	356.8	352.6	355.8	356.8
62.5°	8869.7	5995.1	1101.9	544.1	498.1	420.7	361.0	329.7	322.3	321.3	319.2
65°	9253.8	5887.3	903.1	529.5	509.6	412.3	340.1	303.4	290.9	286.7	286.7
67.5°	8628.0	4980.1	679.1	509.6	502.3	403.9	320.3	281.5	266.8	258.4	258.4
69°	8039.9	4429.6	610.1	496.0	483.5	390.3	307.6	270.0	252.2	242.8	239.6
70°	7585.7	4050.8	580.8	484.5	465.7	374.7	298.2	261.6	241.7	231.3	229.2
72.5°	6053.7	3178.1	508.6	440.5	396.6	315.0	264.7	235.5	216.6	205.1	201.9
75°	3488.9	1722.5	421.7	383.0	319.2	244.9	224.0	205.1	190.5	180.0	176.9
77.5°	1073.6	665.6	305.5	302.4	234.4	189.4	179.0	171.6	161.1	149.6	147.5
80°	452.0	339.0	207.2	204.0	155.9	131.9	128.7	127.7	123.5	114.0	110.9
82.5°	248.0	191.5	144.4	125.6	94.2	76.4	79.6	80.6	77.5	68.0	61.7
85°	121.4	104.6	70.1	56.5	42.9	27.2	26.2	31.4	29.3	20.9	23.0
87.5°	24.1	29.3	18.8	8.4	4.2	0.0	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)