

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: P650796

Luminaire Tested: **GALN-SA3C-840-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650796
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-SA3C-840-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1050mA 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: 17494.5 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

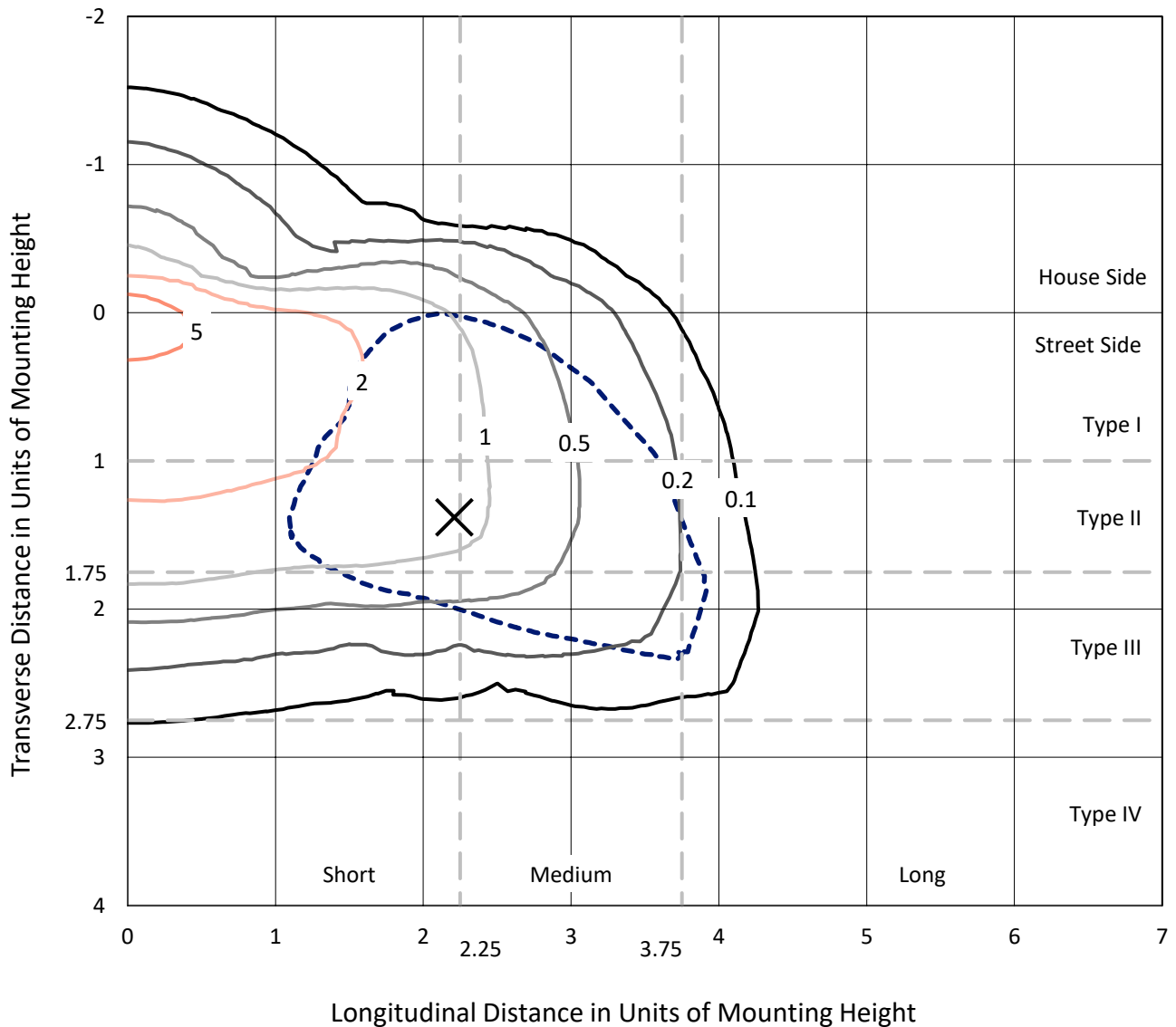
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

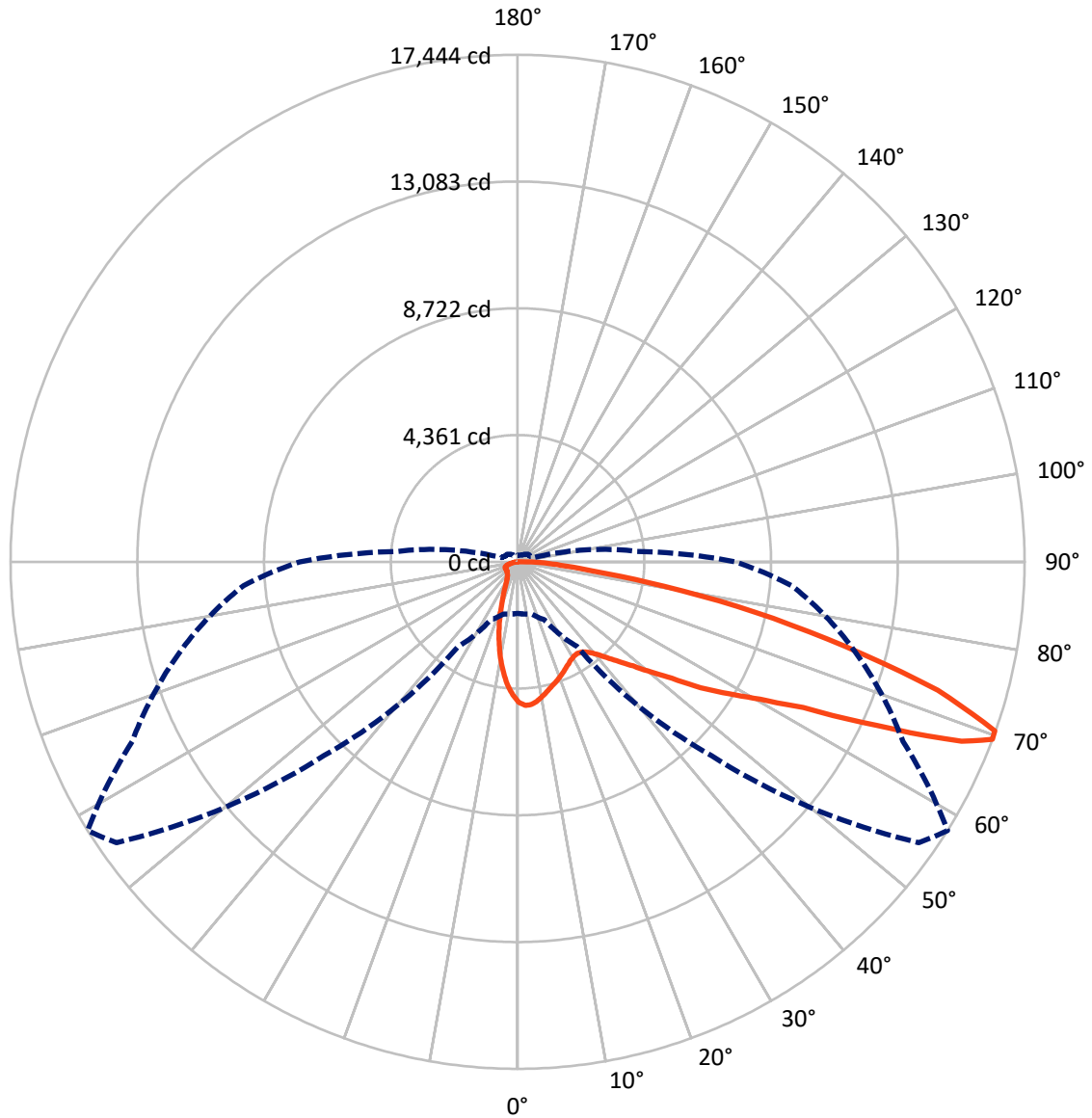
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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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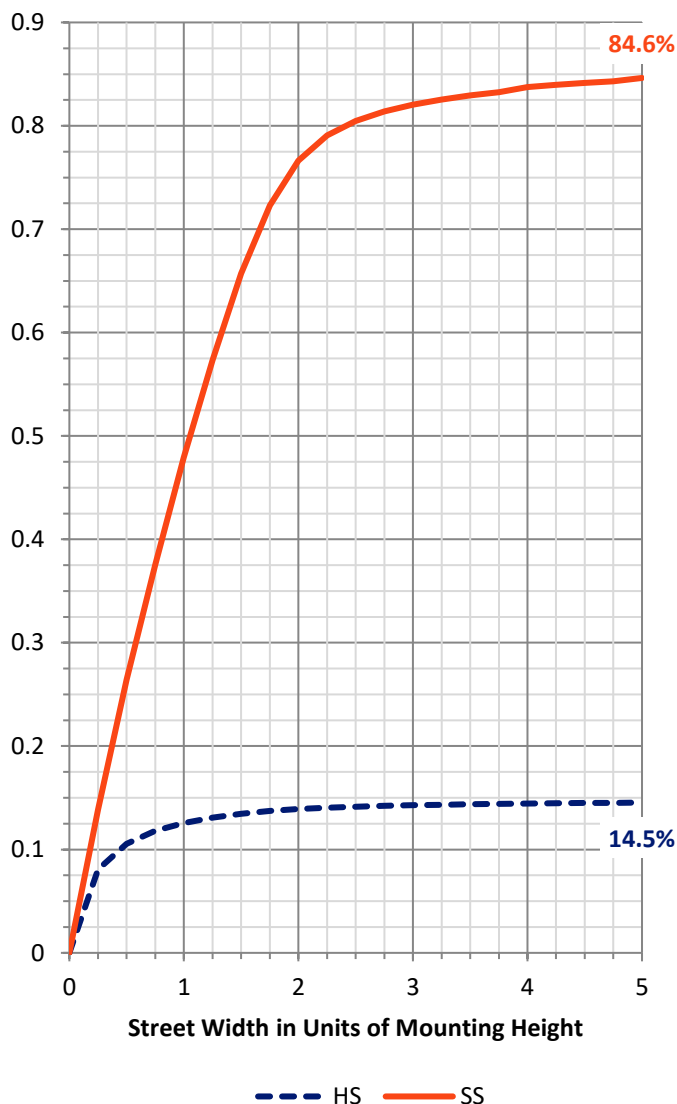
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2563.8	0.0	2563.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	14930.7	0.0	14930.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	17494.5	0.0	17494.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.6	2.3
10°-20°	901.5	5.2
20°-30°	1164.8	6.7
30°-40°	1512.8	8.6
40°-50°	2199.4	12.6
50°-60°	3509.6	20.1
60°-70°	4688.4	26.8
70°-80°	2702.6	15.4
80°-90°	404.8	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°	17494.5	100.0
0°-180°	17494.5	100.0

Coefficient of Utilization



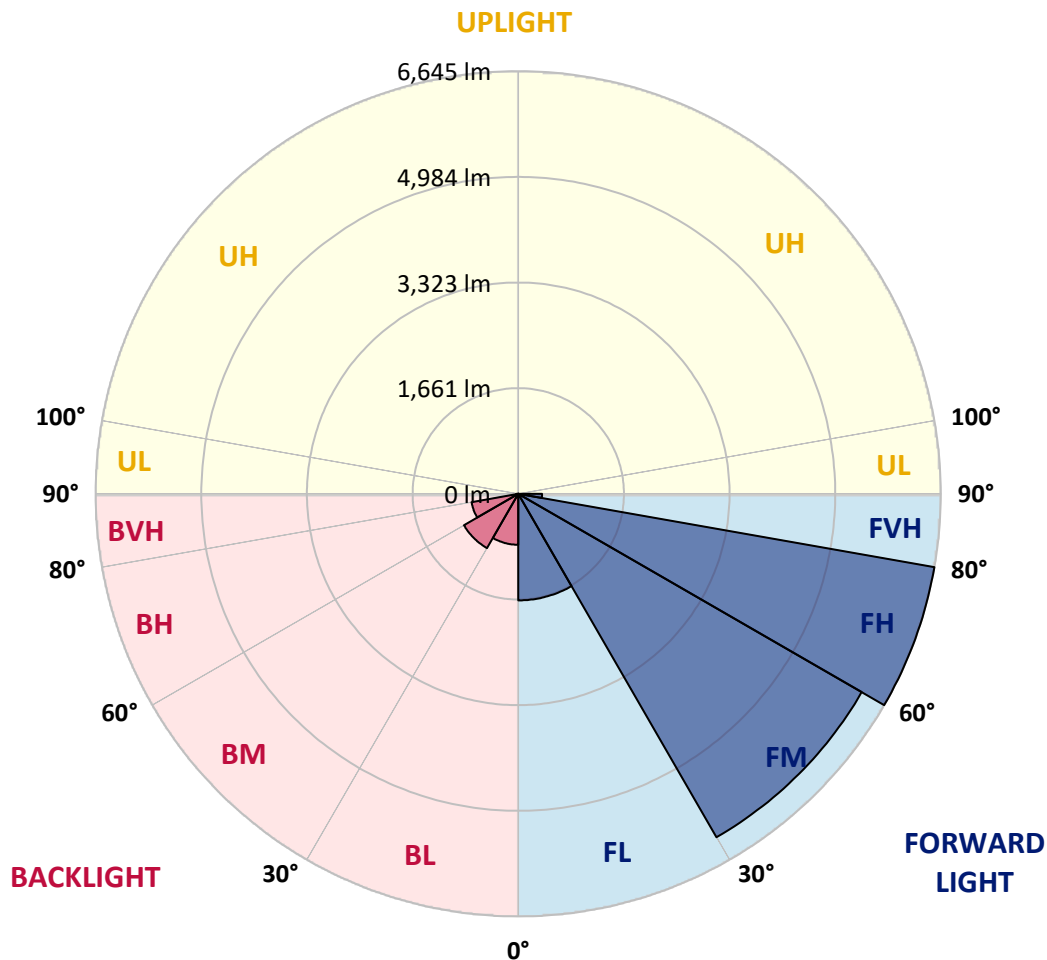
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1675.5	9.6			
FM (30°-60°)	6235.9	35.6			
FH (60°-80°)	6645.5	38.0			G3/7500
FVH (80°-90°)	373.8	2.1			G3/500
BL (0°-30°)	801.3	4.6	B2/1000		
BM (30°-60°)	986.0	5.6	B1/1000		
BH (60°-80°)	745.5	4.3	B2/1000		G2/1000
BVH (80°-90°)	31.0	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°	4834.5	4834.5	4834.5	4834.5	4834.5	4834.5	4834.5	4834.5	4834.5	4834.5	4834.5
2.5°	5014.0	5027.7	5023.7	5018.8	5011.0	4989.6	4954.5	4948.6	4926.2	4878.4	4818.8
5°	4936.9	4948.6	4949.6	4956.4	4966.2	4962.2	4936.9	4934.0	4900.8	4836.4	4736.8
7.5°	4672.5	4688.1	4722.2	4760.3	4794.5	4826.7	4834.5	4839.4	4818.8	4744.7	4612.0
10°	4374.9	4390.5	4406.2	4462.7	4546.6	4626.6	4692.9	4701.8	4706.7	4638.4	4476.4
12.5°	4045.1	4077.3	4110.5	4194.4	4306.6	4432.5	4549.6	4568.1	4601.3	4549.6	4359.3
15°	3765.2	3798.3	3846.1	3921.2	4056.8	4238.3	4403.2	4433.4	4498.8	4472.4	4250.0
17.5°	3571.0	3582.7	3615.8	3701.7	3848.1	4039.2	4259.7	4320.3	4424.7	4417.9	4156.4
20°	3417.7	3432.4	3452.9	3505.6	3657.8	3859.8	4126.1	4204.2	4345.6	4369.1	4063.7
22.5°	3353.4	3364.1	3361.2	3389.5	3492.9	3695.9	3990.5	4083.2	4275.4	4335.9	3977.8
25°	3357.3	3367.0	3352.4	3345.6	3407.1	3551.5	3849.0	3967.1	4218.8	4313.4	3899.7
27.5°	3422.6	3429.5	3402.2	3374.8	3379.7	3461.6	3731.9	3862.7	4171.0	4323.2	3834.4
30°	3510.5	3523.1	3505.6	3472.4	3436.3	3440.2	3656.8	3785.6	4148.6	4357.4	3803.2
32.5°	3623.6	3635.4	3627.6	3601.2	3554.4	3502.7	3638.3	3757.3	4150.5	4426.6	3796.4
35°	3742.7	3766.1	3778.8	3776.8	3738.7	3649.0	3711.4	3810.0	4197.3	4542.7	3836.3
37.5°	3877.3	3896.9	3951.4	3986.6	3951.4	3847.1	3876.3	3944.6	4300.8	4710.5	3924.2
40°	4008.0	4037.3	4117.4	4226.6	4213.0	4121.2	4128.0	4173.0	4483.2	4960.3	4095.8
42.5°	4144.6	4179.8	4319.3	4481.3	4513.5	4442.2	4460.7	4500.8	4742.7	5306.7	4390.5
45°	4320.3	4362.3	4533.9	4735.9	4862.7	4818.8	4871.5	4891.0	5090.1	5757.4	4778.8
47.5°	4546.6	4595.4	4807.2	5058.9	5238.3	5278.4	5370.1	5358.3	5520.3	6291.1	5282.3
50°	4928.1	4955.4	5155.4	5412.1	5658.9	5839.4	5938.9	5957.5	6054.0	6810.2	5845.3
52.5°	5381.8	5406.2	5550.6	5775.0	6084.3	6466.8	6712.6	6652.1	6675.5	7442.4	6503.8
55°	5892.0	5933.1	6024.8	6174.0	6575.0	7138.0	7631.7	7646.4	7386.8	8047.4	7135.0
57.5°	6287.2	6356.5	6513.5	6726.3	7234.6	7884.4	8547.8	8557.6	8225.9	8693.2	7831.7
60°	6088.2	6170.2	6529.2	7047.2	8100.0	9186.9	9642.6	9587.0	9042.5	9428.9	8681.6
62.5°	5229.6	5244.2	5766.2	6576.0	8366.4	10929.5	11271.9	11036.8	10132.4	10361.6	9545.0
65°	3384.6	3480.2	3893.9	5028.6	7491.2	11896.4	14126.8	13583.3	11660.2	11420.2	10267.9
67.5°	2136.7	2112.3	2284.1	2871.4	5152.6	11044.6	16563.0	16477.1	13658.4	12088.5	10095.3
69°	1771.8	1799.2	1857.7	2201.1	3545.6	9429.9	16850.8	17444.0	14627.3	12035.9	9467.9
70°	1606.9	1619.6	1681.1	1951.4	2735.8	7898.1	16378.6	17417.7	15007.8	11815.4	9013.2
72.5°	1275.2	1274.2	1379.6	1623.6	2045.0	4508.6	13448.7	15121.9	14582.4	10788.9	7447.3
75°	968.8	984.5	1100.5	1373.8	1884.0	2463.5	9385.0	11645.6	11646.6	8521.5	4647.1
77.5°	698.6	708.4	843.9	1153.3	1774.8	1997.2	6251.2	8352.7	7852.2	3904.6	1460.6
80°	457.6	463.5	566.8	913.2	1600.1	1884.0	3706.5	5112.5	3703.7	1036.2	483.0
82.5°	250.8	280.1	346.3	591.2	1284.0	1740.6	2252.8	2587.5	1389.3	461.5	251.7
85°	125.9	133.6	195.1	345.4	839.1	1440.1	1568.9	1484.0	717.1	229.3	130.8
87.5°	37.1	46.8	81.0	133.6	340.5	750.3	873.2	783.5	276.1	82.9	27.3
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°	4834.5	4834.5	4834.5	4834.5	4834.5	4834.5	4834.5	4834.5	4834.5	4834.5	4834.5
2.5°	4794.5	4776.9	4698.8	4628.6	4564.2	4495.9	4438.3	4387.6	4392.5	4393.5	4341.7
5°	4685.2	4645.2	4496.8	4358.3	4241.2	4093.0	3966.1	3884.2	3843.2	3788.5	3808.0
7.5°	4536.9	4459.8	4253.9	4023.7	3808.0	3615.8	3407.1	3263.6	3171.9	3083.1	3094.8
10°	4383.7	4259.7	3960.3	3655.8	3376.8	3069.5	2803.1	2574.8	2405.0	2341.6	2299.6
12.5°	4226.6	4063.7	3683.2	3278.2	2892.9	2525.0	2147.5	1902.6	1715.2	1615.7	1628.4
15°	4083.2	3885.1	3394.4	2900.7	2400.1	1962.1	1585.5	1352.2	1221.6	1194.2	1209.9
17.5°	3950.5	3691.0	3124.1	2533.8	1949.4	1471.3	1191.3	1059.6	1006.9	992.3	991.3
20°	3813.9	3526.1	2820.6	2141.6	1519.1	1140.6	977.7	916.2	906.4	912.2	913.2
22.5°	3675.3	3322.2	2508.5	1752.3	1209.9	932.8	854.7	838.1	845.9	859.6	861.5
25°	3547.5	3142.6	2208.0	1410.9	965.9	819.6	781.5	781.5	799.0	819.6	820.6
27.5°	3442.1	2969.0	1908.4	1120.0	808.8	737.6	724.9	731.8	756.1	771.8	772.7
30°	3355.3	2807.0	1625.5	897.6	711.2	672.2	669.4	681.0	698.6	713.3	714.2
32.5°	3290.0	2664.5	1361.1	754.2	644.0	622.5	621.5	630.2	640.0	644.0	647.8
35°	3264.6	2546.5	1119.1	663.5	599.0	585.4	585.4	584.4	588.4	590.3	592.2
37.5°	3285.1	2455.8	931.7	604.9	565.9	556.2	550.3	544.5	542.4	542.4	543.5
40°	3371.9	2408.0	792.2	566.8	542.4	527.8	517.1	510.2	503.4	505.4	507.4
42.5°	3556.3	2416.7	697.6	541.5	522.0	501.5	485.8	478.1	473.2	479.0	478.1
45°	3850.0	2504.6	637.1	523.9	501.5	475.2	460.5	452.7	452.7	461.5	464.4
47.5°	4260.8	2672.4	604.9	510.2	485.8	454.6	440.0	434.2	436.1	450.8	451.7
50°	4762.2	2964.1	599.0	503.4	478.1	440.0	423.4	417.6	422.4	438.1	440.0
52.5°	5315.5	3339.7	627.4	504.4	471.2	431.3	409.8	401.0	405.9	418.6	422.4
55°	5971.1	3810.0	700.6	508.3	461.5	426.4	400.1	380.6	386.4	395.2	396.1
57.5°	6640.5	4403.2	829.3	509.3	453.7	417.6	383.4	358.1	358.1	363.9	366.8
60°	7458.1	5049.1	999.1	510.2	454.6	404.9	361.0	332.7	328.8	331.7	332.7
62.5°	8269.8	5589.6	1027.4	507.4	464.4	392.2	336.6	307.3	300.5	299.6	297.5
65°	8627.8	5489.1	842.0	493.7	475.2	384.4	317.1	282.9	271.2	267.4	267.4
67.5°	8044.4	4643.2	633.2	475.2	468.4	376.6	298.6	262.5	248.8	241.0	241.0
69°	7496.1	4130.0	568.9	462.5	450.8	363.9	286.9	251.7	235.1	226.4	223.5
70°	7072.6	3776.8	541.5	451.7	434.2	349.3	278.0	243.9	225.4	215.6	213.7
72.5°	5644.3	2963.1	474.2	410.7	369.8	293.7	246.8	219.5	201.9	191.2	188.3
75°	3252.9	1606.0	393.2	357.1	297.5	228.3	208.8	191.2	177.5	167.8	164.9
77.5°	1001.0	620.5	284.9	282.0	218.6	176.6	166.9	160.0	150.3	139.5	137.6
80°	421.5	316.1	193.2	190.2	145.4	123.0	120.0	119.0	115.1	106.4	103.4
82.5°	231.3	178.5	134.6	117.1	87.8	71.2	74.2	75.1	72.2	63.4	57.5
85°	113.2	97.6	65.3	52.6	40.0	25.4	24.4	29.3	27.3	19.5	21.4
87.5°	22.5	27.3	17.6	7.8	3.9	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)