

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: P652269

Luminaire Tested: **GALN-SA3B-840-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652269
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-840-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11704.2 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

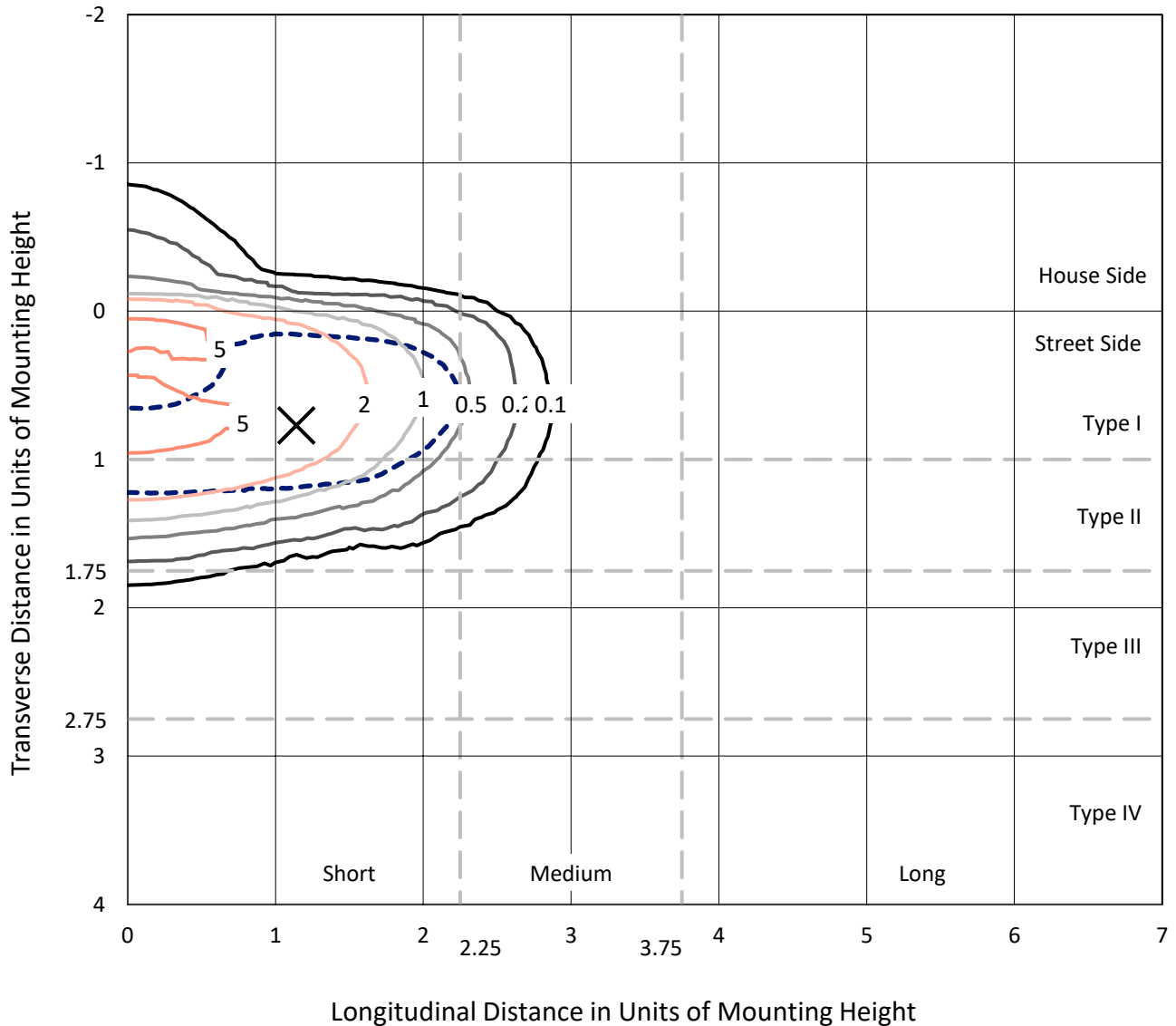
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

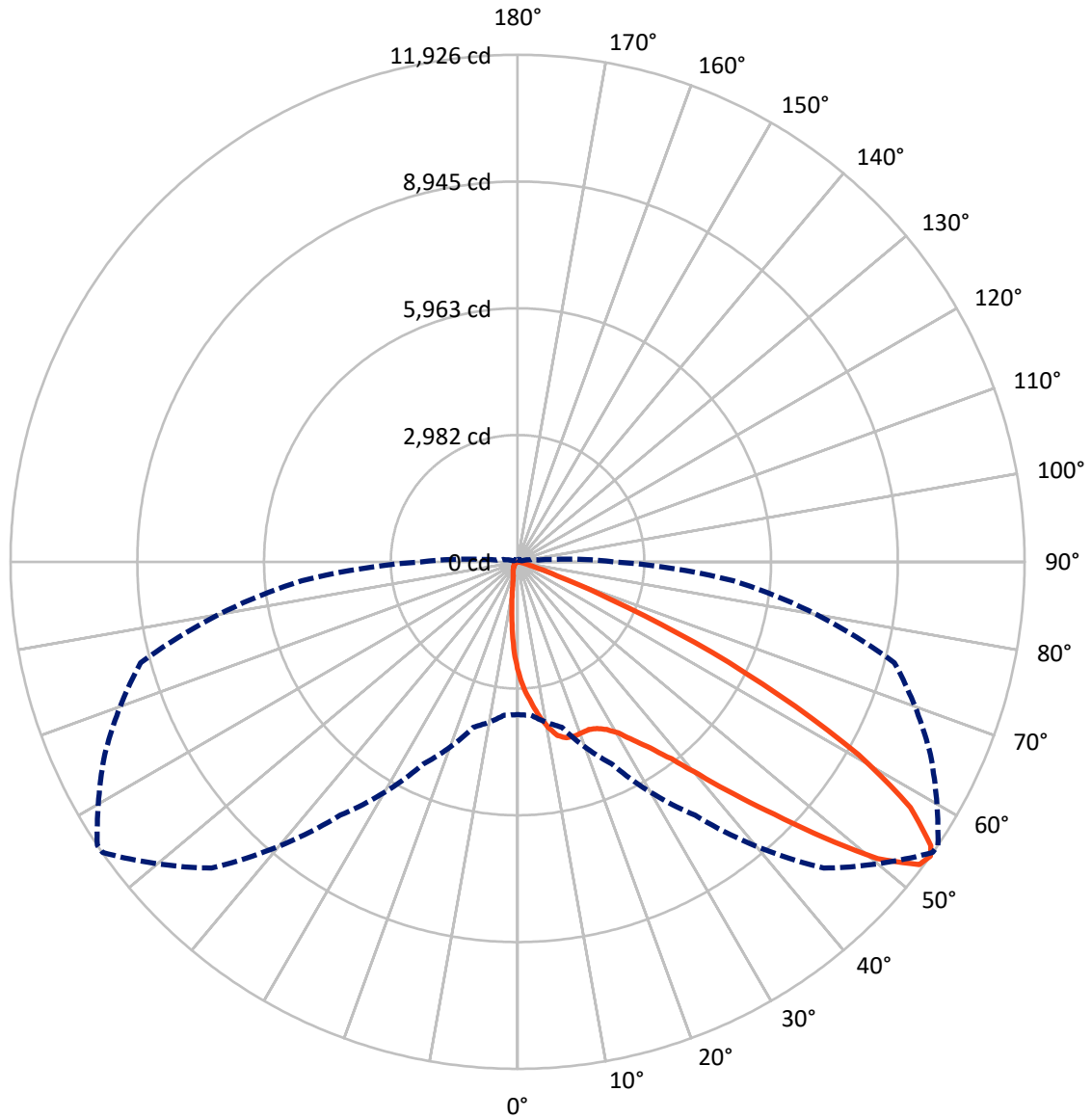
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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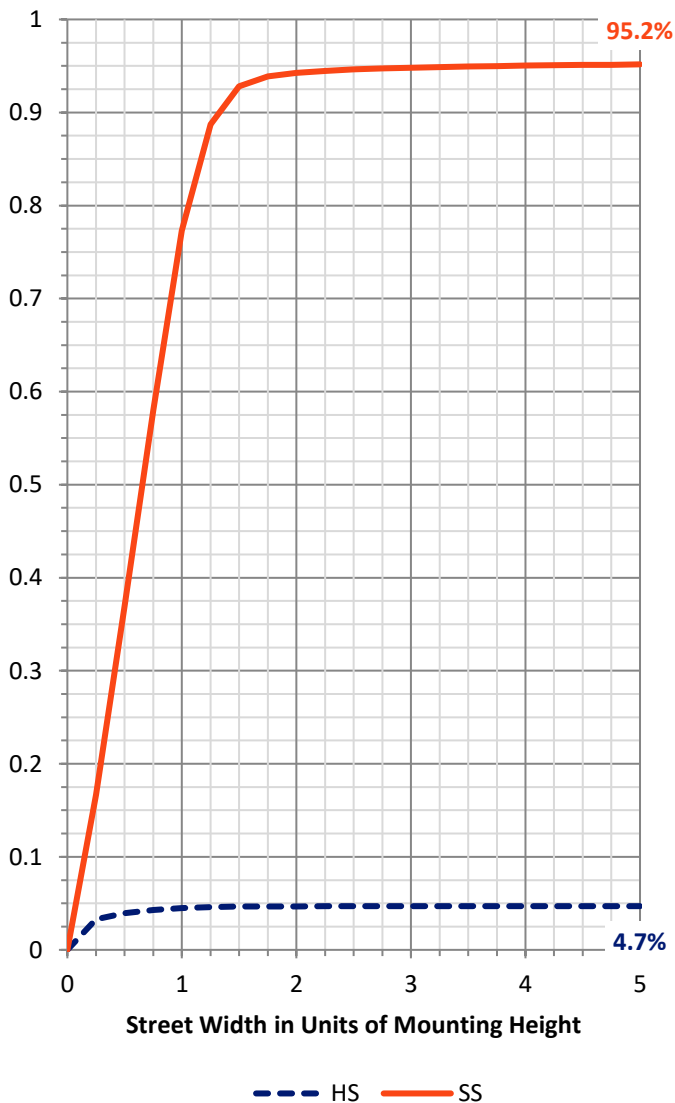
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	553.5	0.0	553.5
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	11150.7	0.0	11150.7
	% Fixture	95.3	0.0	95.3
Total	Lumens	11704.2	0.0	11704.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.8	2.0
10°-20°	621.2	5.3
20°-30°	1075.8	9.2
30°-40°	1857.0	15.9
40°-50°	3160.7	27.0
50°-60°	3128.0	26.7
60°-70°	1427.7	12.2
70°-80°	183.4	1.6
80°-90°	20.7	0.2
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°	11704.2	100.0
0°-180°	11704.2	100.0

Coefficient of Utilization



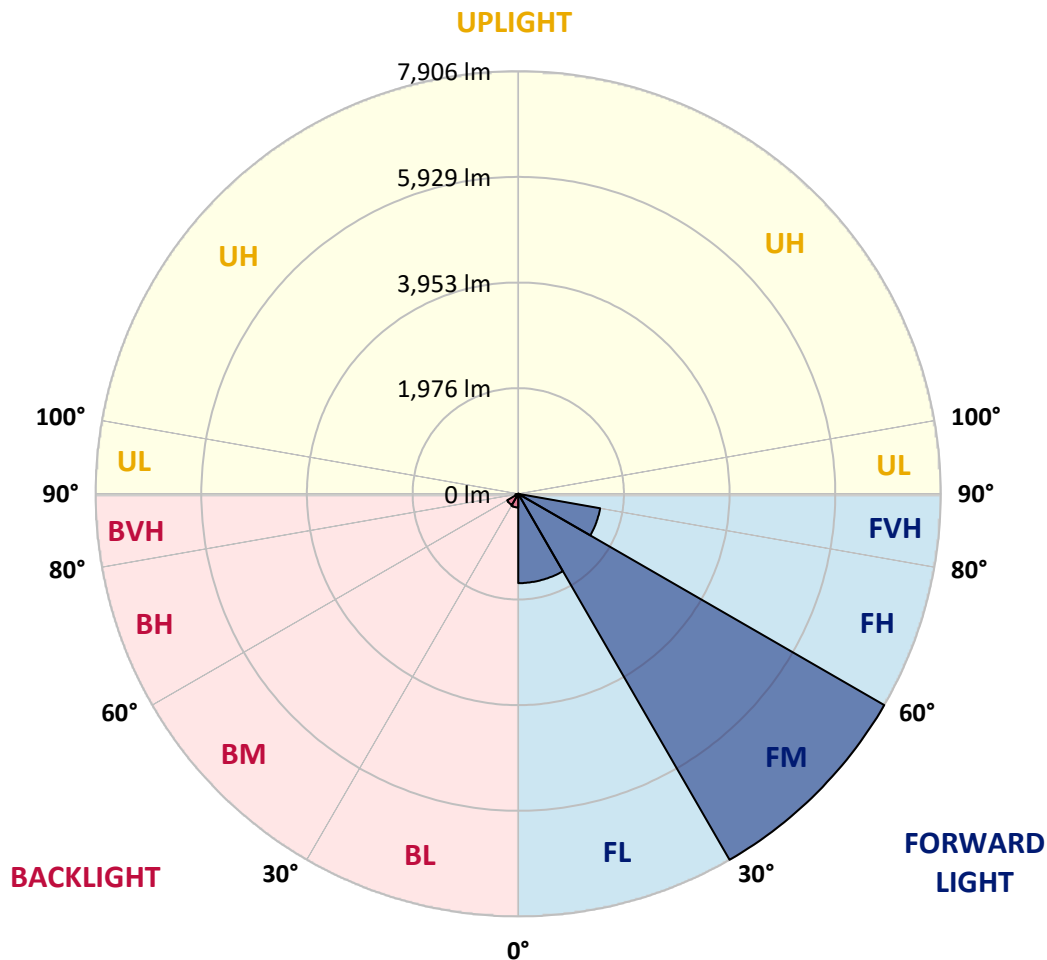
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1670.8	14.3			
FM (30°-60°)	7905.9	67.5			
FH (60°-80°)	1555.6	13.3			G1/1800
FVH (80°-90°)	18.4	0.2			G1/100
BL (0°-30°)	256.0	2.2	B1/500		
BM (30°-60°)	239.9	2.0	B1/1000		
BH (60°-80°)	55.4	0.5	B0/110		G0/110
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2600.4	2600.4	2600.4	2600.4	2600.4	2600.4	2600.4	2600.4	2600.4	2600.4	2600.4
2.5°	3304.7	3281.8	3250.2	3225.7	3168.1	3085.2	2997.5	2997.5	2913.1	2795.4	2675.4
5°	3811.7	3796.7	3765.8	3702.7	3637.9	3521.9	3345.8	3315.0	3164.2	2951.0	2726.7
7.5°	4017.8	4024.9	4026.5	4009.9	3979.1	3864.6	3690.1	3668.8	3427.9	3142.1	2793.8
10°	3820.3	3855.1	3889.0	3957.7	4054.9	4082.6	3983.8	3961.7	3724.8	3335.5	2866.5
12.5°	3526.6	3545.6	3564.5	3672.6	3867.8	4091.2	4194.7	4193.9	3993.3	3528.2	2958.8
15°	3390.0	3406.6	3408.2	3456.3	3625.3	3950.7	4284.6	4296.5	4255.5	3765.8	3058.3
17.5°	3418.4	3431.9	3420.8	3432.6	3521.1	3795.9	4274.4	4313.9	4467.9	3994.1	3148.4
20°	3604.0	3630.0	3587.4	3554.2	3581.1	3754.8	4239.6	4294.9	4617.9	4216.8	3230.4
22.5°	3937.2	3951.4	3897.7	3807.0	3759.5	3840.8	4230.1	4284.6	4745.8	4399.2	3277.9
25°	4307.6	4302.8	4243.6	4141.8	4042.3	4014.6	4292.5	4341.5	4851.6	4563.4	3292.1
27.5°	4677.9	4692.1	4592.6	4466.3	4347.0	4275.2	4432.3	4468.7	4970.9	4750.6	3309.4
30°	5108.3	5085.4	4987.5	4843.0	4706.3	4606.1	4657.4	4667.6	5135.1	4998.5	3355.3
32.5°	5668.2	5605.0	5495.2	5242.5	5144.6	4974.9	4987.5	5000.1	5334.9	5244.1	3410.5
35°	6427.8	6424.7	6209.9	5869.5	5631.0	5420.2	5364.9	5375.2	5637.4	5609.0	3533.0
37.5°	7342.2	7354.9	7110.1	6767.4	6328.3	5993.5	5879.8	5881.4	6096.9	6112.7	3719.2
40°	8086.9	8120.0	7973.9	7742.6	7309.0	6785.5	6594.4	6577.0	6742.9	6723.1	3985.4
42.5°	8407.5	8438.3	8492.8	8573.3	8334.8	7902.9	7452.0	7475.6	7526.2	7388.0	4283.9
45°	8250.3	8299.2	8513.3	9010.7	9235.0	9089.7	8552.0	8469.0	8255.1	8110.5	4584.0
47.5°	7595.7	7714.9	8072.7	8901.0	9685.9	10177.1	9793.3	9683.5	8984.7	8638.1	4775.0
50°	6519.4	6526.5	7024.8	8083.7	9452.2	10863.3	11060.7	10978.6	9664.6	8934.2	4871.4
52.5°	4726.1	4881.7	5338.1	6564.4	8439.9	10759.1	11868.5	11834.6	10365.8	9085.7	5010.3
54°	3592.9	3622.9	4028.8	5245.7	7276.7	10186.5	11918.2	11926.1	10714.1	9177.4	5092.5
55°	2945.4	2873.5	3300.0	4468.7	6483.1	9680.4	11755.6	11793.5	10870.4	9224.8	5153.3
57.5°	1396.1	1396.9	1723.0	2357.2	4060.4	7516.8	10761.4	10895.7	10887.8	9306.1	5340.4
60°	706.8	711.5	783.3	1088.2	2005.7	4997.0	8897.9	9217.6	10049.9	9317.9	5402.0
62.5°	494.3	488.8	476.9	523.5	844.1	2539.6	6624.4	6902.3	8538.5	8867.1	5206.2
65°	423.3	411.4	378.3	371.1	426.4	1011.6	4125.9	4579.2	6519.4	7677.8	4648.7
67.5°	361.6	356.9	326.9	308.7	301.7	440.6	2128.9	2367.4	4456.0	5518.9	3521.1
70°	307.2	304.8	286.6	263.7	244.0	263.7	789.6	978.4	2483.5	2971.5	1661.4
72.5°	249.5	251.9	255.1	225.8	205.3	187.1	337.2	392.5	1039.2	1062.1	581.2
75°	218.7	216.4	216.4	196.6	171.4	139.0	185.6	199.8	318.2	295.4	135.1
77.5°	154.0	148.4	173.8	161.9	142.9	98.7	105.8	112.1	131.9	112.9	63.2
80°	106.6	106.6	111.3	145.3	128.7	71.8	64.8	69.5	78.2	67.1	36.3
82.5°	60.0	61.6	72.7	77.4	75.0	48.2	42.6	43.4	52.1	45.8	22.9
85°	7.1	11.9	41.9	41.0	30.8	21.4	23.7	24.5	32.4	28.4	13.5
87.5°	0.8	1.6	8.7	11.0	7.9	8.7	8.7	8.7	11.0	12.6	9.5
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°	2600.4	2600.4	2600.4	2600.4	2600.4	2600.4	2600.4	2600.4	2600.4	2600.4	2600.4
2.5°	2610.6	2550.6	2407.7	2241.9	2136.1	1963.9	1818.6	1713.5	1687.5	1636.9	1652.0
5°	2607.4	2482.7	2191.3	1883.3	1554.8	1310.0	1127.6	983.9	920.7	878.8	849.7
7.5°	2609.0	2414.0	1946.5	1456.1	1063.7	823.6	654.6	567.0	508.6	484.1	487.2
10°	2613.7	2336.6	1662.2	1078.7	717.8	532.3	428.7	386.9	367.2	364.1	363.2
12.5°	2624.8	2252.1	1390.6	800.7	502.2	386.9	347.4	333.2	326.9	326.9	324.5
15°	2636.6	2158.9	1164.7	595.4	386.9	332.4	314.3	307.2	303.3	303.3	302.4
17.5°	2636.6	2051.5	953.9	462.0	333.2	305.6	291.4	281.9	278.7	278.7	278.0
20°	2620.1	1926.7	766.7	371.9	302.4	280.3	266.1	255.8	251.9	250.3	249.5
22.5°	2562.4	1760.1	610.4	319.8	277.2	258.2	240.0	228.2	225.1	223.5	224.3
25°	2459.8	1572.2	483.2	281.1	254.2	231.4	215.5	206.9	203.7	203.7	204.5
27.5°	2354.0	1375.5	383.0	251.9	226.6	206.1	193.4	188.0	187.1	189.5	190.3
30°	2256.1	1178.2	310.3	228.2	202.2	184.8	176.1	174.5	174.5	175.3	176.1
32.5°	2147.1	1005.2	259.8	207.6	182.4	167.4	162.6	162.6	164.2	164.2	165.8
35°	2078.4	856.8	228.2	188.0	167.4	154.7	151.6	152.4	154.7	157.9	159.5
37.5°	2041.3	738.3	207.6	172.2	153.2	144.5	141.4	142.9	148.4	154.0	154.7
40°	2044.4	649.1	191.1	158.7	142.1	132.6	130.3	135.1	140.5	146.1	146.8
42.5°	2079.2	582.7	175.3	142.9	132.6	119.3	118.4	123.2	125.6	131.1	131.9
45°	2120.2	534.6	158.7	126.3	115.3	103.4	104.2	108.2	111.3	120.0	121.6
47.5°	2132.9	501.4	139.8	107.4	94.8	90.8	91.6	93.9	100.2	108.2	109.0
50°	2147.1	480.9	121.6	90.8	80.6	79.7	80.6	82.2	86.0	89.2	88.5
52.5°	2207.9	480.1	106.6	79.0	68.7	70.3	71.1	70.3	67.1	62.4	60.8
54°	2264.7	482.5	99.5	73.4	63.2	65.5	64.8	60.8	52.9	48.2	45.8
55°	2310.6	484.8	95.5	69.5	60.0	60.8	61.6	53.7	43.4	38.7	37.1
57.5°	2400.6	479.3	86.0	60.8	52.9	49.8	48.9	35.6	23.7	20.5	18.9
60°	2355.6	432.7	78.2	52.1	45.0	40.3	33.1	19.8	11.9	8.7	8.7
62.5°	2178.7	367.2	69.5	42.6	37.1	30.8	17.4	11.0	5.6	3.2	2.4
65°	1948.8	308.7	62.4	34.0	29.2	19.8	9.5	7.1	2.4	0.0	0.0
67.5°	1449.0	229.0	52.9	26.8	22.1	12.6	6.3	4.0	0.8	0.0	0.0
70°	671.2	139.8	45.0	20.5	15.8	9.5	4.7	2.4	0.0	0.0	0.0
72.5°	192.7	87.6	37.1	15.0	11.0	7.9	4.0	1.6	0.8	0.0	0.0
75°	67.1	70.3	27.7	11.0	8.7	5.6	3.2	1.6	0.8	0.0	0.0
77.5°	40.3	56.9	17.4	9.5	7.1	4.7	3.2	1.6	0.8	0.8	0.0
80°	22.9	37.9	11.0	7.9	6.3	4.0	2.4	1.6	0.8	0.8	0.0
82.5°	12.6	18.2	8.7	7.1	5.6	4.0	2.4	1.6	0.8	0.8	0.8
85°	10.3	9.5	7.1	6.3	4.7	3.2	2.4	0.8	0.0	0.0	0.0
87.5°	7.9	6.3	6.3	6.3	4.7	3.2	2.4	0.8	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)