

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: P531819

Luminaire Tested: **GALN-SA7A-827-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531819
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-827-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13667 lumens
Efficiency: N/A
Efficacy: 63.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

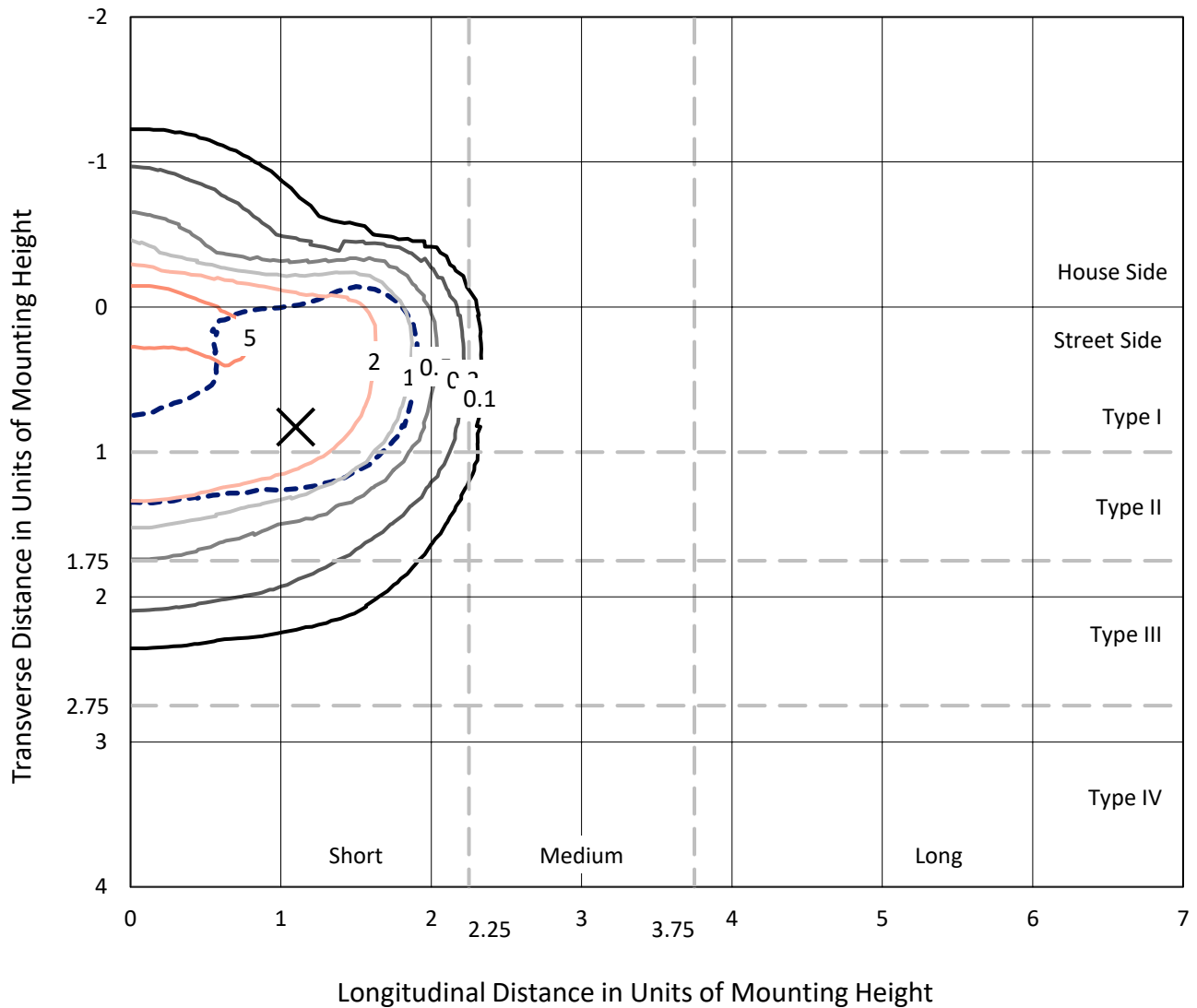
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

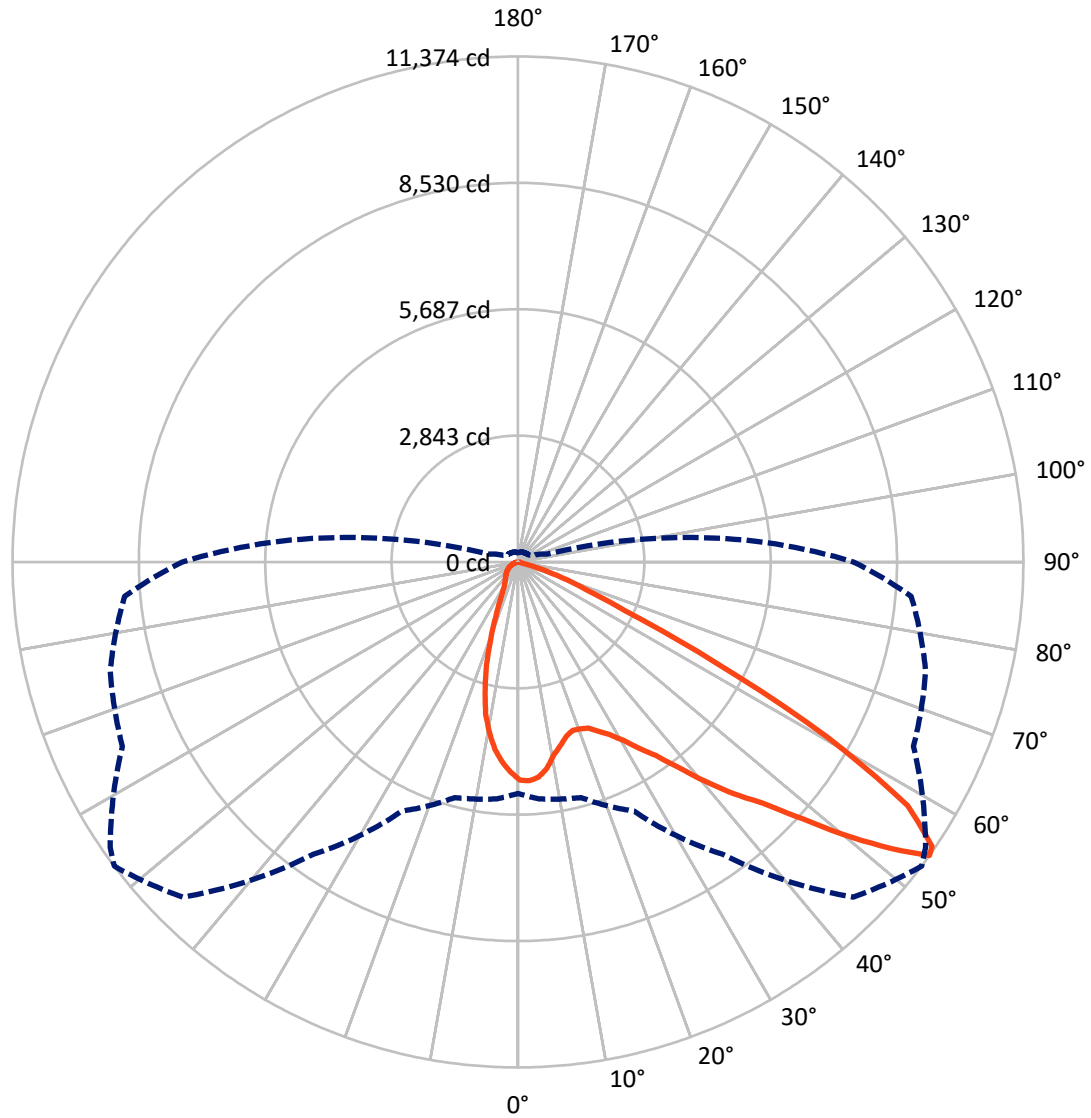
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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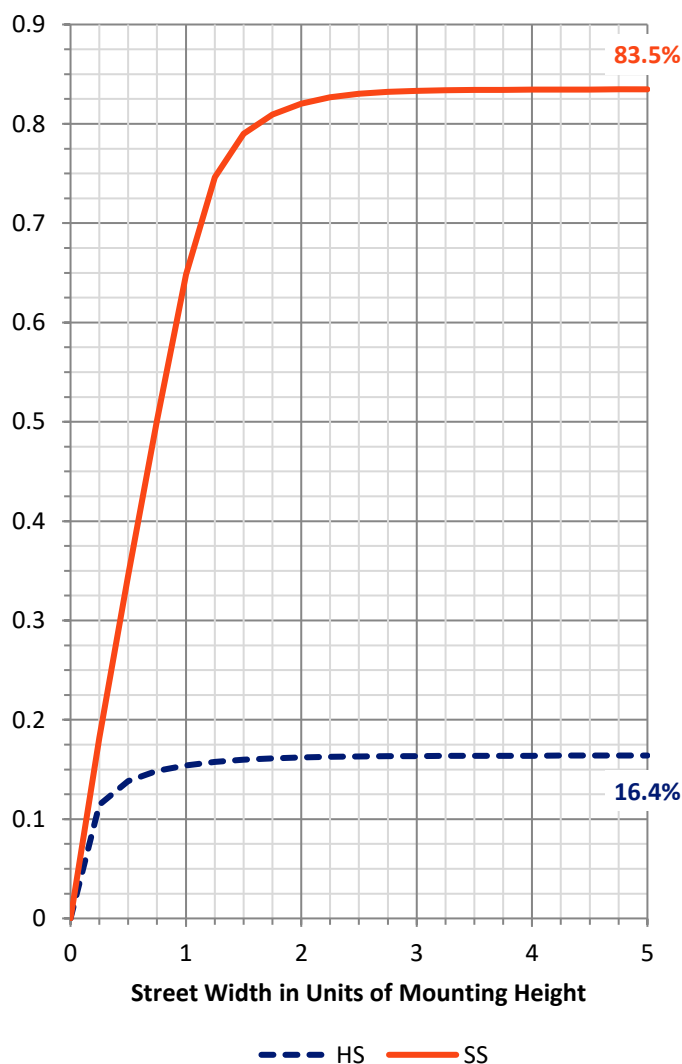
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2261.2	0.0	2261.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	11405.8	0.0	11405.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	13667.0	0.0	13667.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.2	3.1
10°-20°	965.6	7.1
20°-30°	1372.4	10.0
30°-40°	2117.9	15.5
40°-50°	3320.7	24.3
50°-60°	3857.5	28.2
60°-70°	1457.6	10.7
70°-80°	138.6	1.0
80°-90°	15.6	0.1
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°	13667.0	100.0
0°-180°	13667.0	100.0

Coefficient of Utilization



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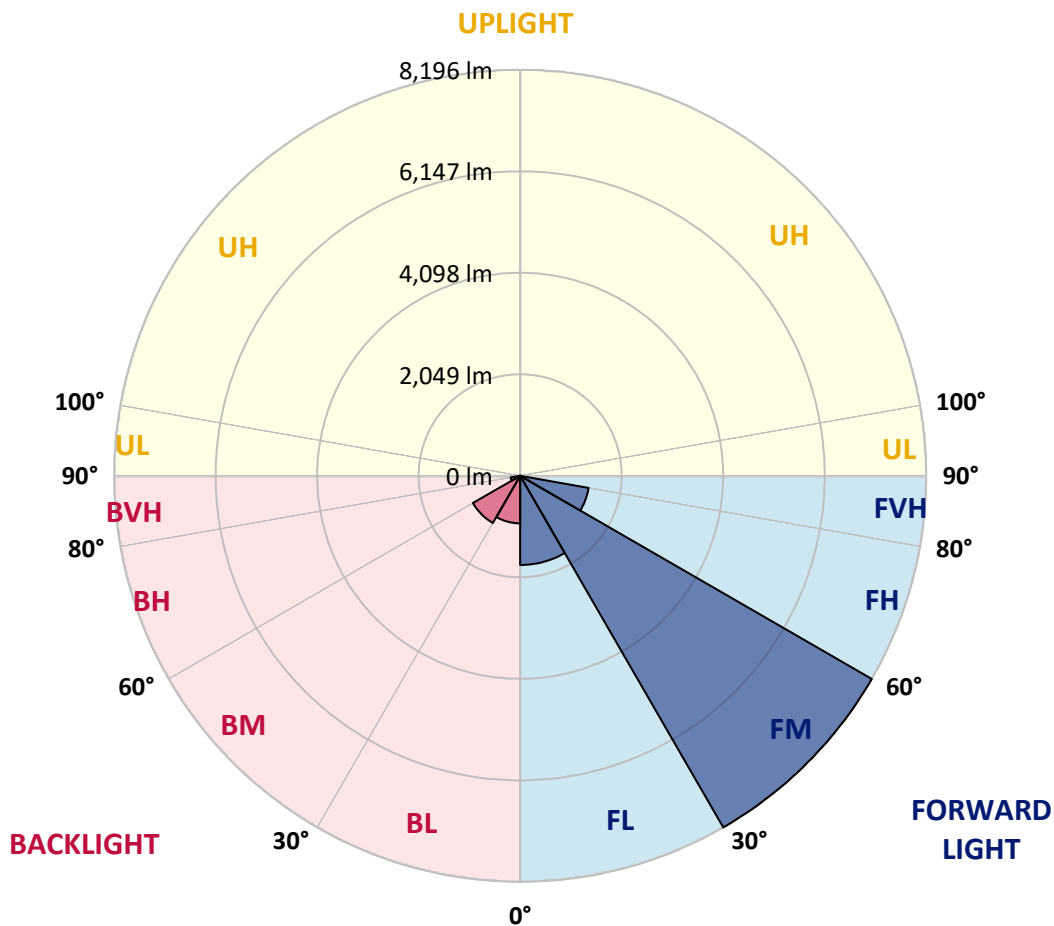
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1799.6	13.2			
FM (30°-60°)	8195.7	60.0			
FH (60°-80°)	1402.4	10.3			G1/1800
FVH (80°-90°)	8.1	0.1			G0/10
BL (0°-30°)	959.6	7.0	B2/1000		
BM (30°-60°)	1100.4	8.1	B2/2500		
BH (60°-80°)	193.7	1.4	B1/500		G1/500
BVH (80°-90°)	7.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4909.0	4909.0	4909.0	4909.0	4909.0	4909.0	4909.0	4909.0	4909.0	4909.0	4909.0
2.5°	4883.5	4840.2	4883.5	4888.6	4919.1	4947.1	4929.3	4970.1	4947.1	4921.7	4914.0
5°	4488.8	4547.4	4550.0	4641.6	4621.2	4789.3	4863.1	4842.8	4967.5	4959.9	4942.1
7.5°	4134.9	4112.0	4142.6	4249.5	4384.5	4578.0	4684.9	4682.3	4860.6	4987.9	4975.2
10°	3806.5	3803.9	3867.6	3951.6	4066.2	4269.9	4417.6	4491.4	4768.9	4962.4	4990.4
12.5°	3585.0	3574.8	3643.5	3712.3	3893.0	4050.9	4239.3	4275.0	4593.2	4873.3	4919.1
15°	3439.8	3462.7	3467.8	3600.2	3714.8	3923.6	4071.3	4145.1	4511.8	4802.0	4977.7
17.5°	3414.4	3444.9	3447.5	3557.0	3679.2	3854.9	3984.7	4084.0	4443.0	4837.7	4980.2
20°	3465.3	3447.5	3462.7	3531.5	3651.2	3819.2	4007.6	4040.7	4420.1	4855.5	5008.3
22.5°	3610.4	3605.3	3567.1	3623.2	3707.2	3882.9	4061.1	4112.0	4486.3	4947.1	5031.2
25°	3770.8	3798.8	3763.2	3755.6	3814.1	3987.3	4224.0	4290.2	4707.8	5112.6	5102.5
27.5°	4071.3	4043.3	4043.3	4007.6	3992.3	4076.4	4399.7	4509.2	4954.8	5326.5	5183.9
30°	4359.0	4389.5	4366.6	4379.4	4277.5	4269.9	4649.2	4784.2	5392.7	5652.4	5357.1
32.5°	4814.7	4774.0	4812.2	4779.1	4644.2	4506.7	4987.9	5127.9	5922.3	6026.7	5616.8
35°	5194.1	5176.3	5339.3	5334.2	5115.2	4980.2	5346.9	5555.7	6291.5	6474.8	5922.3
37.5°	5733.9	5700.8	5886.7	5975.8	5779.7	5578.6	5861.2	6103.1	6635.2	6833.8	6235.5
40°	6289.0	6373.0	6622.5	6770.2	6561.4	6294.1	6490.1	6563.9	6864.4	7068.1	6449.4
42.5°	6991.7	7113.9	7368.5	7495.8	7478.0	7187.8	7129.2	7126.6	7029.9	7001.9	6607.2
45°	7666.4	7620.6	8012.7	8290.2	8514.3	8430.3	7745.4	7669.0	7292.1	7101.2	6648.0
47.5°	7961.8	7946.5	8213.8	8707.8	9471.6	9576.0	8641.6	8346.2	7735.2	7518.7	6869.5
50°	7579.9	7658.8	7923.6	8471.0	9642.2	10439.2	9741.5	9344.3	8252.0	8028.0	7394.0
52.5°	6332.2	6385.7	6637.8	7332.9	9061.7	10948.4	10795.6	10566.5	9201.7	8830.0	8308.1
54°	5206.9	5349.4	5486.9	6184.6	8028.0	10665.8	11373.6	11197.9	9820.5	9497.1	8883.5
55°	4534.7	4618.7	4718.0	5413.1	7312.5	10187.1	11307.4	11322.7	10235.5	9705.9	9270.5
57.5°	3312.5	3371.1	3269.2	3577.3	5021.0	8272.4	10342.4	10754.9	10795.6	10019.1	9507.3
60°	2530.9	2556.3	2441.7	2490.1	3121.6	5677.9	8000.0	8496.5	9739.0	8756.2	8053.4
62.5°	1963.1	1968.2	1965.6	2049.6	2151.5	3340.5	5003.2	5443.6	6714.2	6217.7	5469.1
65°	1446.2	1423.3	1464.0	1718.6	1835.8	2100.6	2635.3	2956.1	3648.6	3080.8	2202.4
67.5°	937.0	944.6	985.4	1278.2	1573.5	1611.7	1621.9	1596.4	1599.0	881.0	552.5
70°	562.7	575.4	562.7	723.1	1125.4	1155.9	1056.6	1031.2	804.6	208.8	206.2
72.5°	333.5	315.7	282.6	310.6	468.5	560.2	504.1	501.6	315.7	122.2	122.2
75°	140.0	127.3	104.4	94.2	124.8	119.7	119.7	106.9	84.0	81.5	76.4
77.5°	28.0	28.0	20.4	22.9	30.6	35.6	43.3	43.3	50.9	50.9	48.4
80°	0.0	2.5	7.6	15.3	22.9	33.1	38.2	38.2	43.3	43.3	35.6
82.5°	0.0	2.5	7.6	15.3	20.4	30.6	38.2	38.2	43.3	45.8	38.2
85°	0.0	2.5	7.6	12.7	20.4	25.5	25.5	22.9	17.8	15.3	10.2
87.5°	0.0	0.0	2.5	5.1	2.5	5.1	5.1	5.1	5.1	5.1	5.1
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°	4909.0	4909.0	4909.0	4909.0	4909.0	4909.0	4909.0	4909.0	4909.0	4909.0	4909.0
2.5°	4931.9	4929.3	4868.2	4768.9	4746.0	4662.0	4651.8	4600.9	4628.9	4534.7	4524.5
5°	4891.1	4860.6	4786.7	4723.1	4537.2	4404.8	4300.4	4173.1	4099.3	4112.0	4063.6
7.5°	4949.7	4870.8	4740.9	4519.4	4292.8	4061.1	3936.3	3676.6	3582.4	3442.4	3422.0
10°	4888.6	4830.0	4628.9	4262.2	3949.1	3615.5	3322.7	3035.0	2816.0	2721.8	2701.5
12.5°	4883.5	4781.6	4445.6	4038.2	3585.0	3106.3	2681.1	2322.1	2105.7	1983.4	1955.4
15°	4804.6	4682.3	4239.3	3691.9	3065.6	2469.8	2006.4	1660.1	1494.6	1423.3	1443.7
17.5°	4812.2	4628.9	4033.1	3325.3	2553.8	1812.9	1369.8	1191.6	1148.3	1166.1	1166.1
20°	4804.6	4509.2	3783.6	2902.6	1955.4	1257.8	1005.7	942.1	970.1	1026.1	1013.4
22.5°	4763.8	4453.2	3554.4	2457.0	1438.6	931.9	807.1	809.7	853.0	921.7	937.0
25°	4794.4	4328.4	3264.2	2006.4	1049.0	743.5	700.2	718.0	763.8	814.8	824.9
27.5°	4771.5	4239.3	2961.2	1558.2	766.4	639.1	636.5	656.9	677.3	715.5	715.5
30°	4796.9	4157.8	2663.3	1158.5	631.4	585.6	575.4	590.7	611.1	618.7	616.2
32.5°	4891.1	4096.7	2319.5	865.7	557.6	534.7	534.7	534.7	532.1	542.3	544.9
35°	5097.4	4106.9	2016.5	669.6	509.2	491.4	483.8	473.6	468.5	473.6	476.1
37.5°	5321.4	4101.8	1703.4	570.3	473.6	458.3	440.5	425.2	422.7	427.8	420.1
40°	5420.7	4150.2	1413.1	511.8	440.5	422.7	394.7	381.9	384.5	389.6	384.5
42.5°	5555.7	4165.5	1224.7	465.9	409.9	381.9	364.1	348.8	346.3	353.9	351.4
45°	5553.1	4078.9	1026.1	440.5	381.9	351.4	328.5	315.7	315.7	320.8	323.4
47.5°	5716.1	4066.2	881.0	417.6	361.6	331.0	303.0	292.8	290.3	290.3	285.2
50°	6095.5	4244.4	768.9	392.1	336.1	308.1	285.2	272.4	262.3	257.2	254.6
52.5°	6836.4	4799.5	682.4	361.6	308.1	285.2	264.8	254.6	241.9	229.2	226.6
54°	7554.4	5372.4	677.3	336.1	285.2	269.9	252.1	247.0	231.7	213.9	208.8
55°	7877.8	5705.9	695.1	315.7	269.9	259.7	244.4	239.3	224.1	203.7	201.1
57.5°	8145.1	5835.8	684.9	262.3	244.4	241.9	229.2	221.5	203.7	175.7	170.6
60°	6556.3	4412.5	491.4	231.7	224.1	219.0	208.8	203.7	180.8	150.2	147.7
62.5°	4142.6	2538.5	313.2	203.7	196.1	188.4	175.7	170.6	150.2	119.7	112.0
65°	1764.5	1051.6	211.3	180.8	168.0	155.3	145.1	137.5	119.7	89.1	86.6
67.5°	458.3	374.3	175.7	157.9	140.0	122.2	114.6	101.8	81.5	61.1	58.6
70°	206.2	188.4	147.7	132.4	112.0	94.2	84.0	71.3	53.5	40.7	38.2
72.5°	122.2	119.7	112.0	99.3	84.0	71.3	61.1	48.4	35.6	22.9	22.9
75°	76.4	73.8	76.4	68.7	58.6	53.5	45.8	33.1	20.4	10.2	10.2
77.5°	45.8	45.8	45.8	43.3	40.7	40.7	33.1	20.4	10.2	2.5	2.5
80°	35.6	35.6	38.2	35.6	35.6	35.6	28.0	15.3	5.1	0.0	0.0
82.5°	35.6	38.2	43.3	40.7	35.6	30.6	25.5	15.3	5.1	0.0	0.0
85°	10.2	7.6	12.7	17.8	25.5	22.9	17.8	12.7	5.1	0.0	0.0
87.5°	5.1	5.1	5.1	5.1	2.5	2.5	2.5	2.5	2.5	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)