

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: P648433

Luminaire Tested: **GALN-SA5B-835-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648433
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-SA5B-835-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 800mA 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: 21840.2 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

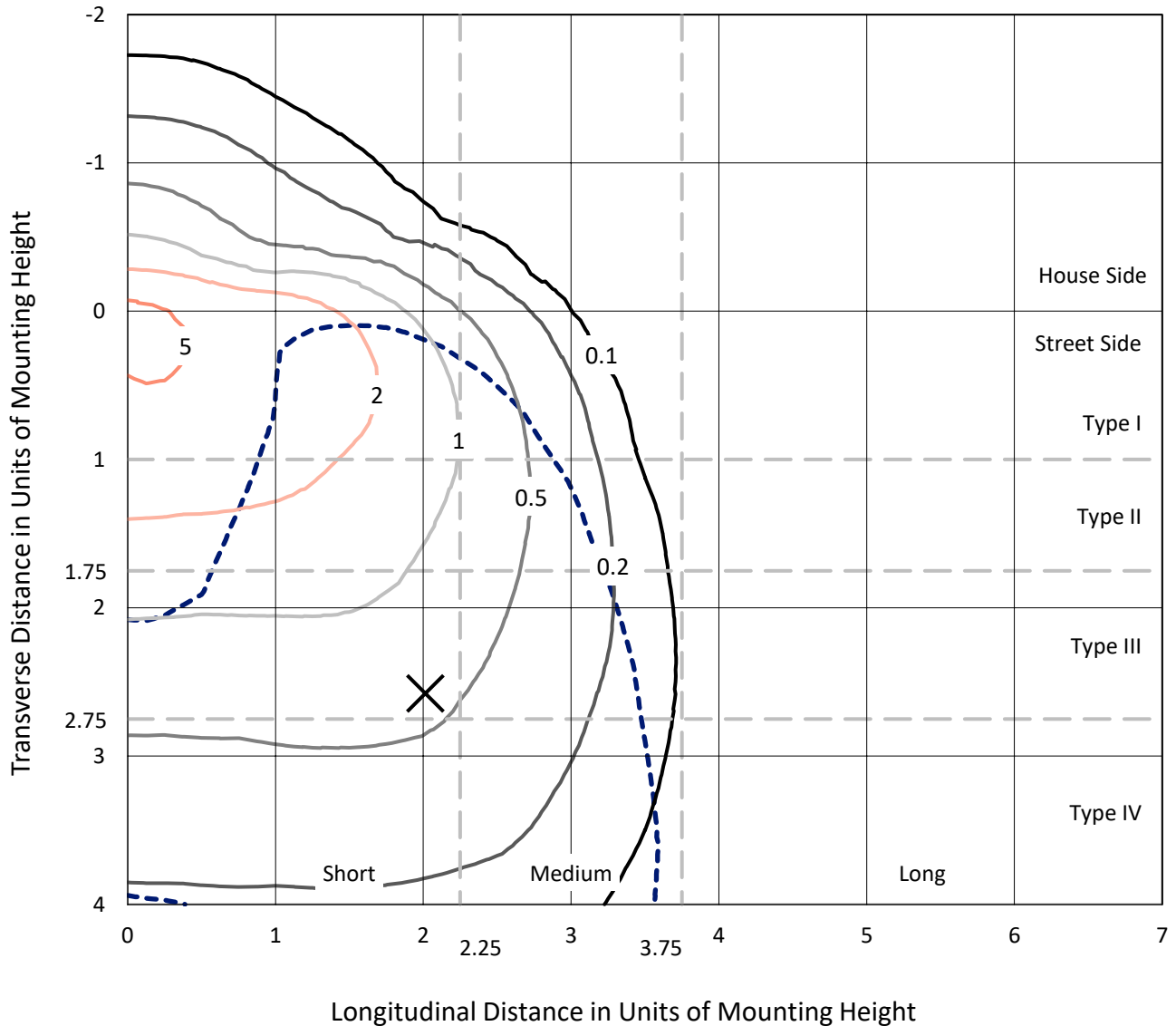
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

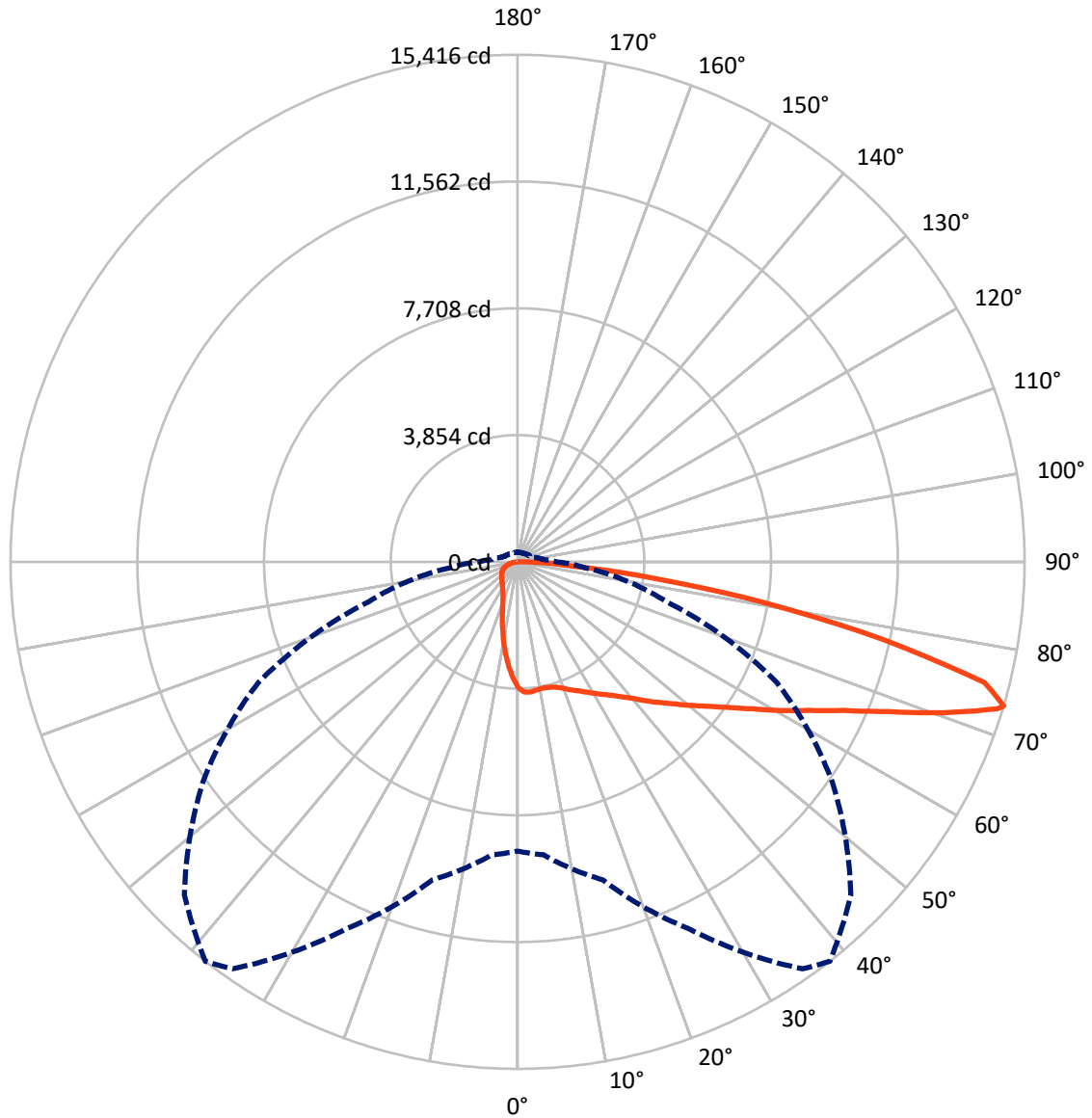
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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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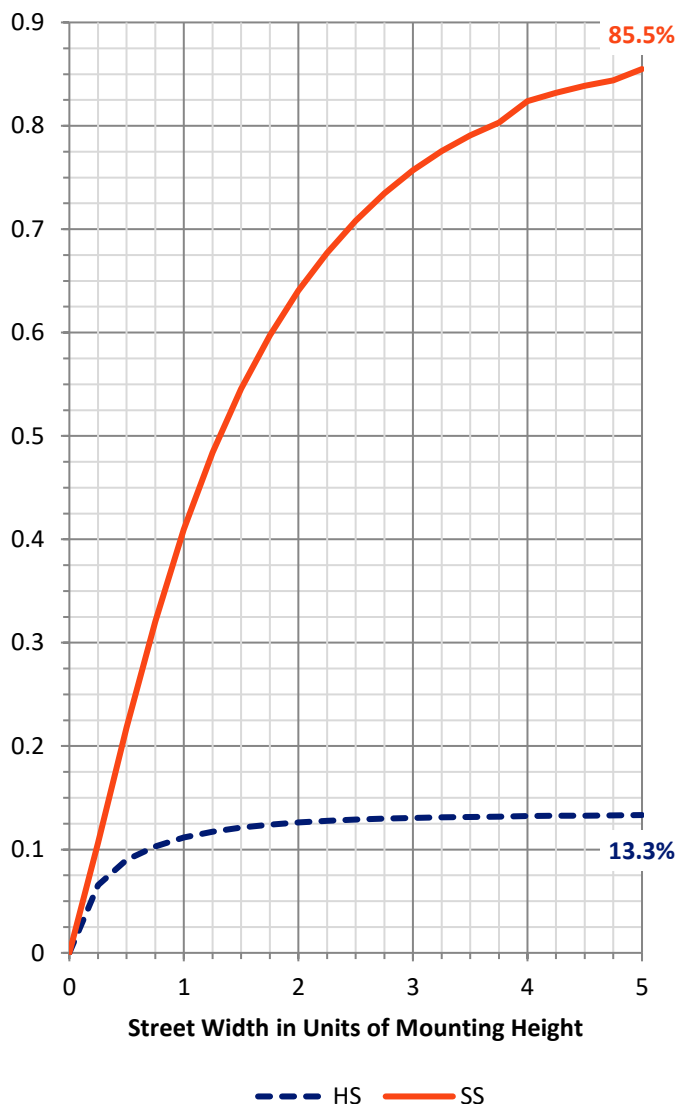
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2936.0	0.0	2936.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	18904.3	0.0	18904.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	21840.2	0.0	21840.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.9	1.5
10°-20°	858.9	3.9
20°-30°	1337.4	6.1
30°-40°	1961.7	9.0
40°-50°	2909.9	13.3
50°-60°	4122.8	18.9
60°-70°	5229.8	23.9
70°-80°	4353.4	19.9
80°-90°	731.4	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°	21840.2	100.0
0°-180°	21840.2	100.0

Coefficient of Utilization

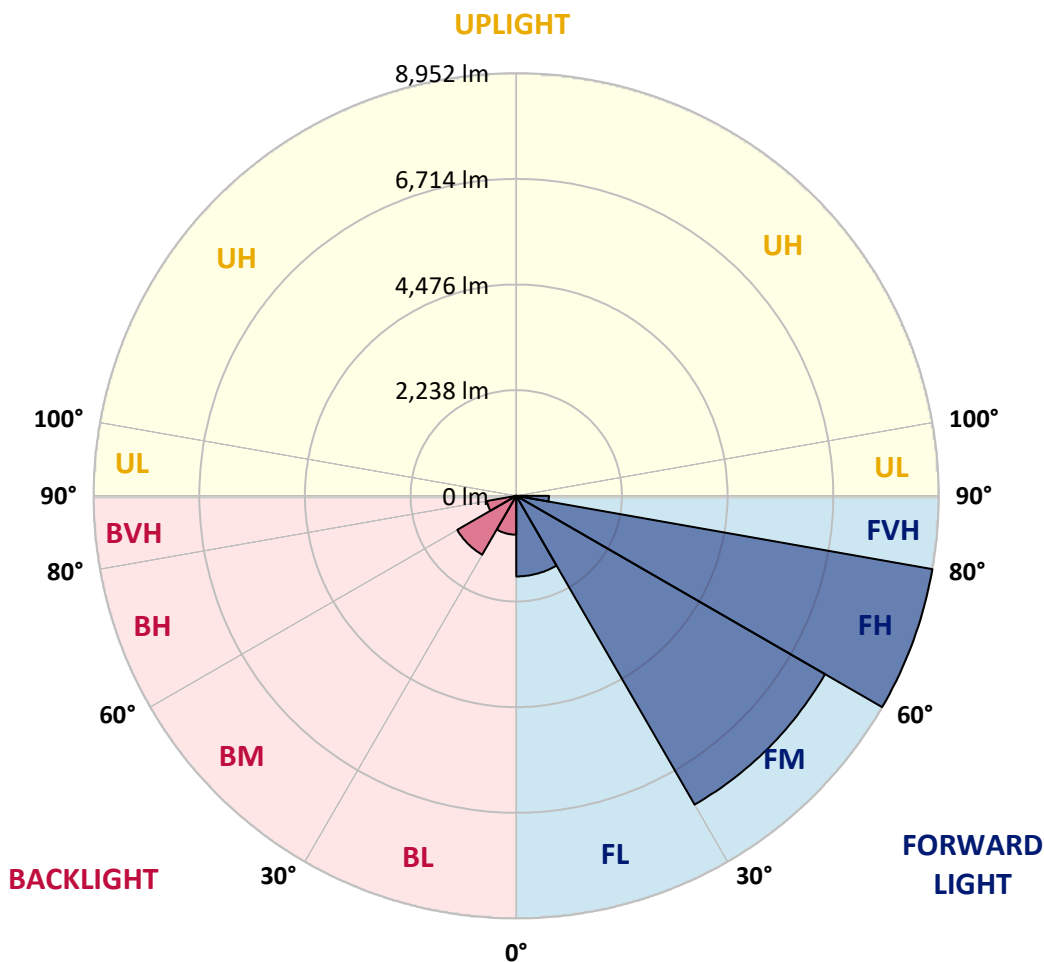


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1707.3	7.8			
FM (30°-60°)	7552.9	34.6			
FH (60°-80°)	8952.2	41.0			G4/12000
FVH (80°-90°)	691.8	3.2			G4/750
BL (0°-30°)	823.9	3.8	B2/1000		
BM (30°-60°)	1441.4	6.6	B2/2500		
BH (60°-80°)	631.1	2.9	B2/1000		G2/1000
BVH (80°-90°)	39.7	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°	3836.9	3836.9	3836.9	3836.9	3836.9	3836.9	3836.9	3836.9	3836.9	3836.9	3836.9
2.5°	3991.1	4010.8	4001.0	3987.4	3978.8	3970.1	3957.8	3922.0	3893.7	3862.9	3814.8
5°	4020.7	4033.1	4024.5	4007.2	3987.4	3978.8	3955.3	3908.5	3862.9	3811.0	3739.5
7.5°	4003.5	4008.4	3998.5	3977.6	3960.3	3944.3	3917.1	3865.4	3809.8	3746.9	3653.2
10°	3941.8	3960.3	3960.3	3943.0	3925.7	3917.1	3890.0	3840.7	3790.1	3718.5	3607.5
12.5°	3891.2	3910.9	3927.0	3922.0	3920.8	3920.8	3899.9	3862.9	3803.7	3735.8	3603.8
15°	3856.7	3880.2	3914.7	3934.4	3946.7	3950.4	3941.8	3909.8	3849.3	3770.4	3618.6
17.5°	3849.3	3877.7	3940.5	3983.7	4015.8	4014.6	4012.1	3967.7	3901.1	3819.7	3637.2
20°	3882.6	3919.6	4007.2	4075.0	4121.9	4113.3	4099.6	4041.7	3964.0	3872.7	3654.4
22.5°	3982.5	4020.7	4116.9	4190.9	4236.6	4236.6	4195.9	4119.4	4036.8	3934.4	3677.8
25°	4125.5	4167.5	4269.9	4345.1	4366.1	4350.0	4309.3	4216.8	4121.9	4023.2	3727.2
27.5°	4300.7	4351.3	4446.3	4509.1	4503.0	4490.7	4448.7	4330.3	4235.3	4145.3	3811.0
30°	4519.0	4556.0	4654.7	4669.5	4647.3	4644.8	4585.6	4467.2	4378.4	4309.3	3930.7
32.5°	4724.9	4758.3	4837.2	4843.4	4803.9	4808.9	4753.4	4644.8	4594.3	4569.6	4131.7
35°	4943.2	4960.5	5028.3	5021.0	4995.1	4991.4	4969.2	4865.6	4881.6	4926.0	4416.7
37.5°	5125.8	5160.4	5198.6	5204.8	5203.5	5215.9	5230.7	5181.3	5273.8	5413.2	4790.3
40°	5293.5	5323.1	5379.9	5399.6	5447.7	5472.4	5523.0	5524.1	5737.6	5966.9	5250.4
42.5°	5407.0	5457.6	5563.7	5599.4	5716.6	5790.6	5865.8	5946.0	6255.5	6550.3	5793.0
45°	5505.7	5572.3	5748.6	5859.7	6018.8	6108.8	6267.9	6435.6	6880.8	7266.9	6344.3
47.5°	5654.9	5714.1	5916.3	6112.5	6353.0	6456.6	6694.6	6945.0	7527.1	7950.2	6872.2
50°	5862.1	5897.9	6103.9	6423.3	6730.4	6863.6	7178.1	7539.5	8217.8	8624.8	7336.0
52.5°	6127.3	6142.1	6306.1	6731.6	7136.2	7301.5	7718.3	8140.1	8822.1	9210.7	7703.5
55°	6440.6	6415.9	6544.2	7058.4	7599.9	7815.7	8263.5	8748.1	9501.7	9684.3	7971.2
57.5°	6750.2	6711.9	6814.3	7455.6	8172.2	8432.4	8954.2	9374.7	10108.5	10127.1	8158.6
60°	7078.2	7049.8	7172.0	7921.8	8874.0	9182.3	9664.6	10024.7	10695.6	10435.4	8188.2
62.5°	7414.9	7369.3	7543.2	8446.0	9664.6	9944.5	10411.9	10715.4	11271.6	10550.1	7903.3
65°	7741.8	7720.8	7989.7	9068.9	10564.9	10883.1	11337.0	11542.9	11732.9	10377.4	7196.6
67.5°	8089.6	8131.5	8560.7	9900.1	11739.0	12138.6	12628.3	12434.7	11864.9	9559.7	6060.7
70°	8619.9	8647.1	9310.6	10989.2	13252.4	13734.6	13971.4	12751.6	11228.5	8006.9	4556.0
72.5°	8848.1	8967.7	9980.3	12132.5	14971.7	15266.4	14422.8	12044.9	9353.7	5439.1	2393.9
73°	8797.5	8940.5	10011.1	12306.4	15106.1	15415.6	14326.6	11681.1	8695.1	4684.3	2052.3
75°	8167.2	8343.6	9610.3	12160.9	14844.6	14659.6	12780.0	9955.6	5875.7	2130.0	934.9
77.5°	6444.2	6494.8	7614.7	9819.9	11689.7	11346.8	9564.7	6222.3	2400.1	791.8	530.3
80°	3232.6	3418.8	4292.1	5625.3	7817.0	7704.7	6037.2	2942.7	1000.3	464.9	351.5
82.5°	1555.3	1687.2	2090.5	2743.0	4319.2	4216.8	2989.7	1608.3	635.2	271.3	207.2
85°	1001.5	1100.1	1330.8	1308.5	1776.0	1695.8	1343.2	1217.3	376.2	141.8	144.3
87.5°	661.1	724.0	868.3	694.4	646.3	584.6	593.3	685.8	74.0	54.3	19.7
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°	3836.9	3836.9	3836.9	3836.9	3836.9	3836.9	3836.9	3836.9	3836.9	3836.9	3836.9
2.5°	3795.0	3779.0	3726.0	3674.1	3624.8	3577.9	3547.1	3506.4	3479.3	3486.7	3497.8
5°	3700.1	3664.3	3570.6	3479.3	3393.0	3290.6	3208.0	3141.3	3090.8	3072.3	3068.6
7.5°	3600.2	3539.7	3405.3	3248.7	3101.9	2974.9	2828.0	2755.3	2670.2	2640.6	2630.7
10°	3539.7	3458.4	3269.7	3051.3	2830.5	2619.6	2460.5	2331.1	2213.9	2191.7	2180.6
12.5°	3522.5	3415.1	3161.0	2879.9	2586.3	2327.3	2091.8	1921.6	1808.1	1782.2	1744.0
15°	3512.6	3379.3	3060.0	2707.2	2334.7	2019.0	1771.1	1572.5	1468.9	1399.8	1401.1
17.5°	3503.9	3338.7	2946.5	2518.5	2117.7	1753.8	1480.0	1301.2	1206.2	1169.3	1165.5
20°	3491.6	3290.6	2815.7	2320.0	1869.7	1512.1	1264.2	1131.0	1066.8	1036.0	1034.8
22.5°	3486.7	3243.7	2687.5	2117.7	1650.3	1325.9	1121.1	1027.4	986.7	965.8	965.8
25°	3499.0	3210.4	2553.0	1925.2	1455.4	1166.7	1022.4	958.3	934.9	923.8	920.1
27.5°	3537.3	3195.6	2419.9	1732.9	1276.5	1058.2	955.9	911.4	894.2	885.6	886.7
30°	3610.0	3194.4	2289.1	1542.9	1143.3	975.6	902.8	871.9	858.4	853.5	852.2
32.5°	3727.2	3221.5	2160.8	1386.3	1031.1	906.5	853.5	831.3	825.1	821.4	820.2
35°	3925.7	3298.0	2033.8	1243.2	944.8	844.9	806.6	795.5	786.9	790.6	791.8
37.5°	4193.4	3429.9	1912.9	1131.0	879.4	799.2	767.2	757.2	752.3	756.1	759.7
40°	4552.3	3619.9	1811.8	1040.9	832.5	761.0	732.6	724.0	719.0	725.2	726.5
42.5°	4948.2	3839.4	1727.9	970.7	794.3	728.9	701.8	691.9	688.2	691.9	693.1
45°	5355.3	4094.7	1684.8	920.1	762.2	705.5	677.1	666.0	657.4	654.9	658.6
47.5°	5756.1	4316.8	1683.5	889.3	736.3	684.5	653.6	641.4	630.2	624.1	622.9
50°	6082.9	4493.1	1713.1	875.7	714.1	661.1	630.2	617.9	603.1	590.8	593.3
52.5°	6329.5	4607.8	1726.7	869.5	701.8	636.4	605.6	594.5	577.2	561.2	561.2
55°	6488.6	4635.0	1693.4	863.3	691.9	610.5	577.2	567.4	550.1	534.0	534.0
57.5°	6542.9	4551.0	1573.8	848.5	682.1	588.3	548.8	540.2	526.6	510.6	508.2
60°	6417.2	4267.4	1364.1	804.1	662.3	564.9	518.0	514.3	509.3	495.8	494.5
62.5°	5932.4	3665.5	1135.9	746.2	629.0	540.2	489.6	495.8	499.5	492.1	490.9
65°	5125.8	2976.1	970.7	666.0	584.6	505.7	458.8	474.8	484.7	484.7	482.2
67.5°	4157.7	2285.4	817.7	597.0	529.1	458.8	424.3	436.6	444.0	441.5	447.7
70°	2955.1	1547.8	666.0	518.0	458.8	405.8	379.8	379.8	374.9	372.5	372.5
72.5°	1433.1	884.3	540.2	432.9	391.0	346.6	325.6	317.0	307.1	305.8	299.7
73°	1197.6	793.0	515.5	416.9	374.9	337.9	314.5	300.9	294.8	289.9	288.6
75°	728.9	601.9	430.4	351.5	319.5	291.0	270.1	257.8	251.6	247.9	246.6
77.5°	479.7	449.0	334.3	268.9	244.2	226.9	218.3	206.0	202.2	197.3	197.3
80°	357.7	342.9	239.3	190.0	175.2	160.4	157.9	155.4	145.6	139.4	136.9
82.5°	230.7	244.2	162.8	127.0	111.0	98.7	99.9	103.6	93.7	85.1	82.6
85°	164.0	176.3	98.7	57.9	46.9	40.7	45.6	40.7	42.0	33.3	27.2
87.5°	27.2	46.9	17.3	7.4	3.7	2.5	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)