

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: P646975

Luminaire Tested: **GALN-SA5C-835-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646975
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-835-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27506.8 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

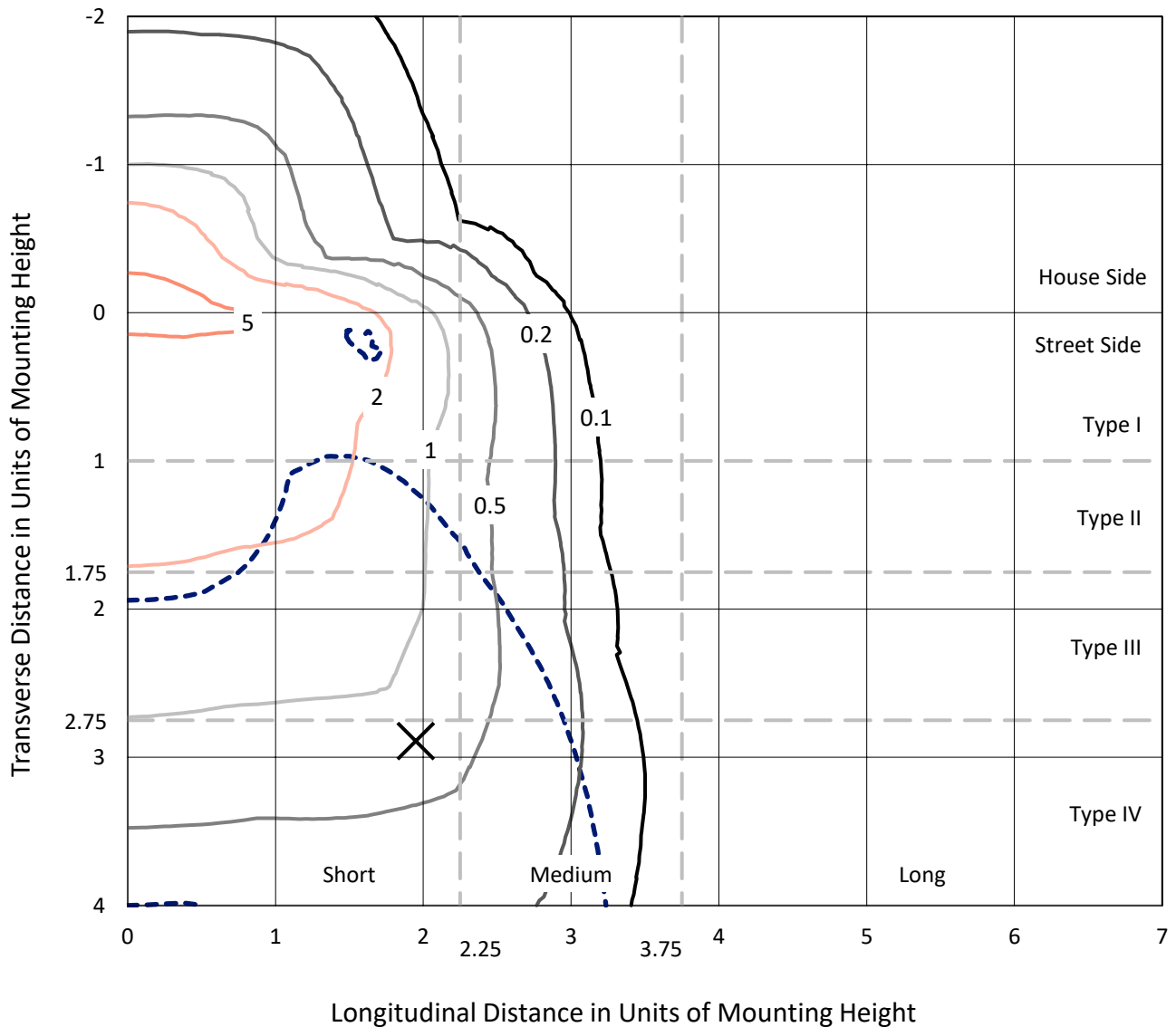
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

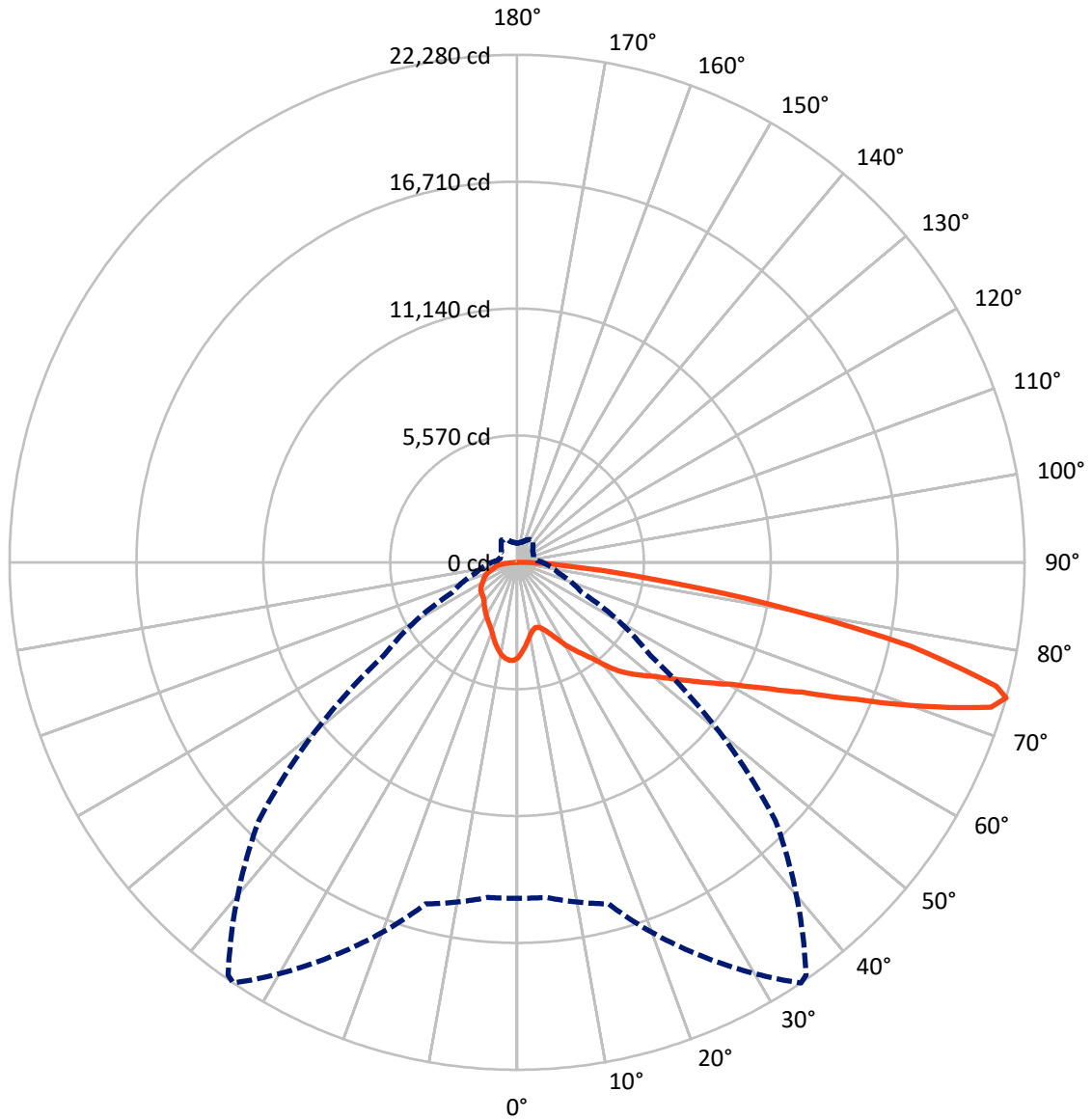
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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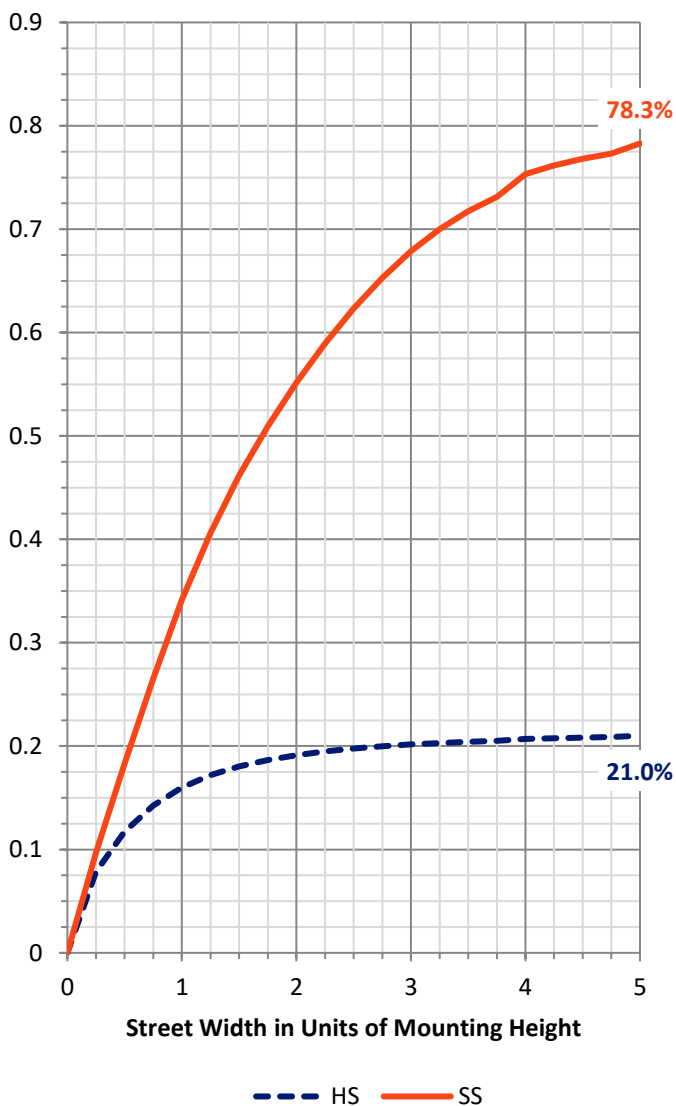
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5853.6	0.0	5853.6
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	21653.2	0.0	21653.2
	% Fixture	78.7	0.0	78.7
Total	Lumens	27506.8	0.0	27506.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.0	1.4
10°-20°	1045.6	3.8
20°-30°	1723.9	6.3
30°-40°	2582.2	9.4
40°-50°	3753.8	13.6
50°-60°	5243.1	19.1
60°-70°	6564.1	23.9
70°-80°	5428.0	19.7
80°-90°	784.3	2.9
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°	27506.8	100.0
0°-180°	27506.8	100.0

Coefficient of Utilization

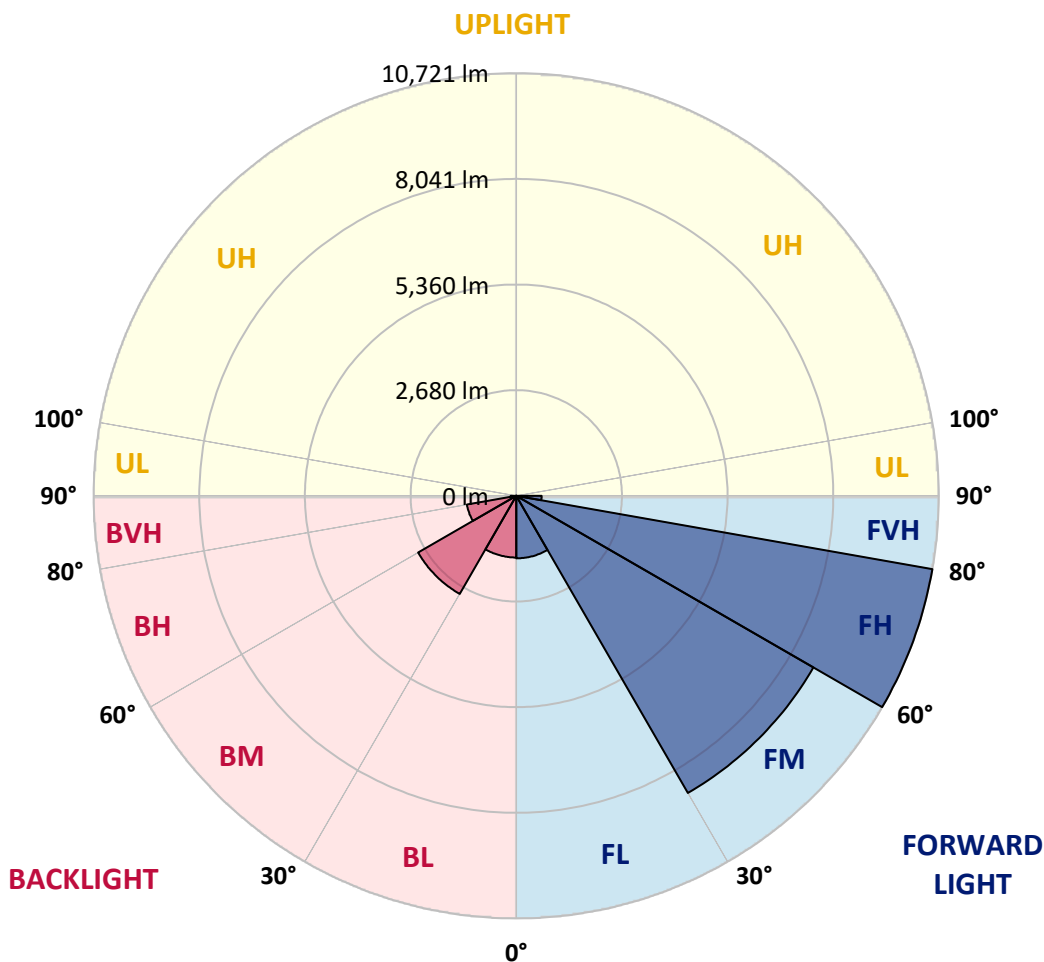


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1585.6	5.8			
FM (30°-60°)	8704.3	31.6			
FH (60°-80°)	10720.7	39.0			G4/12000
FVH (80°-90°)	642.5	2.3			G4/750
BL (0°-30°)	1565.8	5.7	B3/2500		
BM (30°-60°)	2874.7	10.5	B3/5000		
BH (60°-80°)	1271.4	4.6	B3/2500		G3/2500
BVH (80°-90°)	141.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4199.8	4199.8	4199.8	4199.8	4199.8	4199.8	4199.8	4199.8	4199.8	4199.8	4199.8
2.5°	3881.3	3901.1	3911.7	3949.8	3959.0	3971.1	4003.2	4045.8	4100.7	4149.4	4192.1
5°	3558.2	3588.6	3607.0	3640.5	3706.0	3712.1	3797.5	3895.0	4006.2	4109.8	4195.2
7.5°	3251.9	3285.5	3300.7	3361.7	3448.5	3462.2	3587.2	3741.1	3927.0	4083.9	4215.0
10°	3021.8	3038.6	3072.1	3117.8	3221.4	3230.6	3393.6	3599.4	3840.1	4071.8	4248.5
12.5°	2896.9	2906.0	2913.6	2962.4	3064.5	3078.2	3248.8	3482.0	3771.6	4080.9	4303.4
15°	2915.1	2918.2	2884.7	2893.8	2976.1	2995.9	3165.0	3404.3	3728.9	4103.7	4385.7
17.5°	3069.0	3058.4	2976.1	2933.4	2991.3	3000.5	3148.3	3373.8	3709.1	4146.4	4471.0
20°	3311.3	3296.1	3154.4	3059.9	3093.4	3101.1	3203.2	3396.7	3728.9	4216.5	4603.6
22.5°	3613.1	3607.0	3392.1	3277.8	3276.3	3276.3	3329.6	3478.9	3788.3	4312.5	4742.2
25°	4035.2	4003.2	3722.8	3574.9	3533.8	3530.8	3524.7	3614.6	3864.5	4414.6	4906.8
27.5°	4468.0	4413.1	4163.1	3936.1	3847.7	3837.1	3797.5	3806.6	3962.1	4530.4	5094.3
30°	4856.6	4821.5	4586.8	4335.4	4230.2	4205.8	4096.1	4045.8	4125.1	4739.2	5392.9
32.5°	5153.7	5132.3	4949.5	4720.9	4565.4	4560.9	4400.9	4359.7	4379.6	4992.2	5734.3
35°	5394.5	5402.1	5309.1	5111.0	4932.7	4906.8	4800.1	4748.3	4690.4	5357.8	6164.0
37.5°	5723.6	5740.3	5734.3	5563.6	5345.7	5351.8	5327.4	5242.0	5088.2	5766.2	6640.9
40°	6086.3	6098.5	6096.9	6031.4	5917.1	5923.2	5914.1	5816.5	5586.5	6285.9	7171.3
42.5°	6587.6	6529.8	6378.9	6444.4	6511.4	6540.4	6602.9	6509.9	6194.5	6840.6	7669.6
45°	7148.4	7038.7	6697.3	6727.8	6976.2	7031.0	7375.5	7247.4	6854.3	7477.6	8256.3
47.5°	7501.9	7393.7	7105.7	7099.6	7428.8	7482.1	8091.7	8044.5	7454.7	8164.8	8972.5
50°	7817.4	7802.1	7477.6	7555.2	7876.8	7956.1	8871.9	8827.7	8053.5	8975.5	9752.7
52.5°	8285.2	8161.8	7902.7	8062.7	8487.9	8591.5	9646.0	9516.5	8603.7	9691.7	10510.1
55°	8495.5	8466.5	8451.3	8590.0	9173.6	9248.2	10398.8	10101.6	9073.0	10298.2	11086.0
57.5°	9057.8	9004.4	9155.3	9249.8	9981.2	10095.5	11185.1	10712.7	9484.5	10779.7	11366.4
60°	9786.2	9757.3	9895.9	10066.6	10883.4	11057.1	12081.1	11233.9	9815.1	11022.1	11212.6
62.5°	10874.2	10871.2	10845.3	11211.0	12161.9	12321.9	13109.7	11741.3	9867.0	10840.7	10417.0
65°	12434.7	12379.8	12154.3	12553.5	13752.8	13940.2	14181.0	12024.8	9554.6	9909.6	8771.3
67.5°	14066.7	14063.6	13880.8	14398.9	16037.0	16230.6	15520.5	11962.3	8687.5	8027.6	6229.5
70°	15419.9	15354.4	15587.5	16968.2	18955.3	19179.2	16692.3	11226.3	6919.8	5301.5	3701.5
72.5°	15744.5	15747.5	16232.1	18949.1	21757.6	21792.6	17114.4	9098.9	4631.0	2924.3	1851.5
74°	14744.8	14770.7	15522.0	19048.2	22280.3	22121.8	16035.5	7151.5	3131.5	1909.4	1334.9
75°	13458.7	13295.7	14382.1	18388.4	21737.8	21567.1	14772.2	5738.8	2389.4	1525.4	1168.8
77.5°	7195.6	7361.8	9038.0	13722.3	17659.9	17463.4	10016.3	2752.1	1290.7	1062.1	841.2
80°	2561.6	2825.2	3971.1	7180.4	11322.3	11383.2	4780.3	1261.7	908.2	783.2	594.3
82.5°	1045.4	1074.4	1705.2	3186.4	5749.5	5804.4	1952.0	749.7	649.2	539.4	355.1
85°	408.4	420.5	754.3	1432.4	2453.4	2613.4	675.1	396.2	399.3	309.4	181.3
87.5°	137.2	155.4	309.4	477.0	833.6	816.7	196.6	117.4	143.2	134.1	56.4
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°	4199.8	4199.8	4199.8	4199.8	4199.8	4199.8	4199.8	4199.8	4199.8	4199.8	4199.8
2.5°	4213.5	4242.4	4262.2	4283.6	4303.4	4309.5	4304.9	4318.6	4320.1	4321.7	4323.2
5°	4237.8	4277.5	4315.6	4336.9	4346.0	4338.4	4312.5	4298.8	4286.6	4277.5	4280.5
7.5°	4271.3	4327.7	4362.8	4372.0	4347.5	4312.5	4248.5	4198.2	4166.2	4144.9	4143.3
10°	4323.2	4378.1	4407.0	4381.1	4314.0	4228.7	4128.1	4033.6	3962.1	3940.7	3939.2
12.5°	4388.7	4451.2	4449.6	4373.4	4256.2	4103.7	3940.7	3831.0	3733.4	3684.6	3704.5
15°	4474.1	4521.3	4477.1	4339.9	4154.0	3945.2	3744.1	3594.8	3485.1	3433.2	3436.3
17.5°	4573.1	4614.2	4496.9	4280.5	4010.8	3742.6	3509.4	3367.7	3280.8	3242.8	3239.7
20°	4696.5	4708.7	4496.9	4176.9	3826.4	3506.4	3283.9	3184.9	3136.1	3116.3	3122.4
22.5°	4829.1	4804.7	4472.5	4030.6	3584.1	3259.6	3110.2	3066.0	3041.6	3038.6	3041.6
25°	4978.5	4909.9	4422.2	3832.5	3331.1	3046.2	2959.3	2966.9	2971.5	2971.5	2982.2
27.5°	5161.3	5024.1	4338.4	3582.6	3035.5	2848.1	2823.7	2877.1	2901.4	2906.0	2913.6
30°	5402.1	5149.1	4199.8	3270.2	2784.1	2669.8	2712.5	2784.1	2811.5	2828.3	2825.2
32.5°	5688.6	5286.3	4012.3	2957.8	2581.4	2544.8	2596.7	2669.8	2700.3	2709.4	2697.2
35°	6025.3	5441.7	3765.4	2665.3	2404.7	2426.0	2487.0	2509.7	2537.2	2537.2	2543.3
37.5°	6388.0	5566.7	3463.8	2397.0	2267.5	2345.2	2389.4	2368.1	2355.9	2340.6	2348.3
40°	6756.7	5659.6	3072.1	2131.9	2130.4	2261.4	2273.6	2212.6	2163.9	2148.6	2141.0
42.5°	7078.3	5717.5	2718.6	1926.2	2000.8	2179.1	2188.3	2090.8	2013.0	1967.3	1952.0
45°	7457.8	5784.6	2372.6	1755.5	1880.5	2113.6	2136.4	2005.4	1891.1	1795.1	1770.8
47.5°	7977.4	5936.9	2099.8	1622.9	1793.5	2072.4	2104.5	1935.3	1784.5	1659.5	1639.7
50°	8564.1	6145.7	1888.0	1533.0	1726.5	2035.9	2075.5	1863.7	1685.4	1546.7	1531.5
52.5°	9102.0	6258.4	1705.2	1452.2	1661.0	1968.9	2037.4	1811.9	1587.8	1433.9	1420.2
55°	9396.1	6075.6	1525.4	1373.0	1571.1	1881.9	1984.0	1740.2	1493.4	1374.5	1354.7
57.5°	9435.7	5697.7	1362.3	1287.6	1476.6	1775.3	1885.0	1653.4	1432.4	1333.4	1316.6
60°	9129.4	5133.9	1235.8	1217.6	1380.6	1654.9	1773.7	1577.2	1369.9	1287.6	1270.9
62.5°	8367.5	4521.3	1147.5	1153.6	1283.1	1528.4	1691.5	1504.1	1310.5	1237.4	1222.1
65°	7056.9	3731.9	1062.1	1088.1	1196.2	1429.4	1616.8	1443.1	1251.1	1199.2	1185.5
67.5°	4902.2	2694.1	992.1	1019.5	1114.0	1328.8	1530.0	1377.5	1184.1	1156.6	1135.3
70°	2714.0	1657.9	909.8	941.7	1028.6	1216.0	1432.4	1278.5	1086.5	1074.4	1043.8
72.5°	1426.3	1056.0	816.7	851.8	912.8	1071.3	1283.1	1170.4	990.5	938.7	899.0
74°	1114.0	865.5	754.3	790.9	832.0	986.0	1194.7	1092.6	921.9	861.0	830.5
75°	970.7	771.1	700.9	748.2	784.8	928.0	1126.1	1037.7	883.9	825.9	798.5
77.5°	685.8	577.5	573.0	629.4	649.2	813.8	1014.9	944.8	787.9	726.9	700.9
80°	481.5	432.8	454.1	489.1	516.6	719.3	941.7	816.7	646.1	574.5	565.3
82.5°	313.9	283.4	324.6	356.6	365.7	530.3	760.4	620.2	470.9	382.5	355.1
85°	144.8	141.7	185.9	181.3	179.8	259.0	451.1	362.7	271.2	202.6	190.5
87.5°	36.6	35.1	45.7	38.1	45.7	39.6	41.1	10.6	1.5	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)