

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: P646887

Luminaire Tested: **GALN-SA4C-835-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-835-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21736.9 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

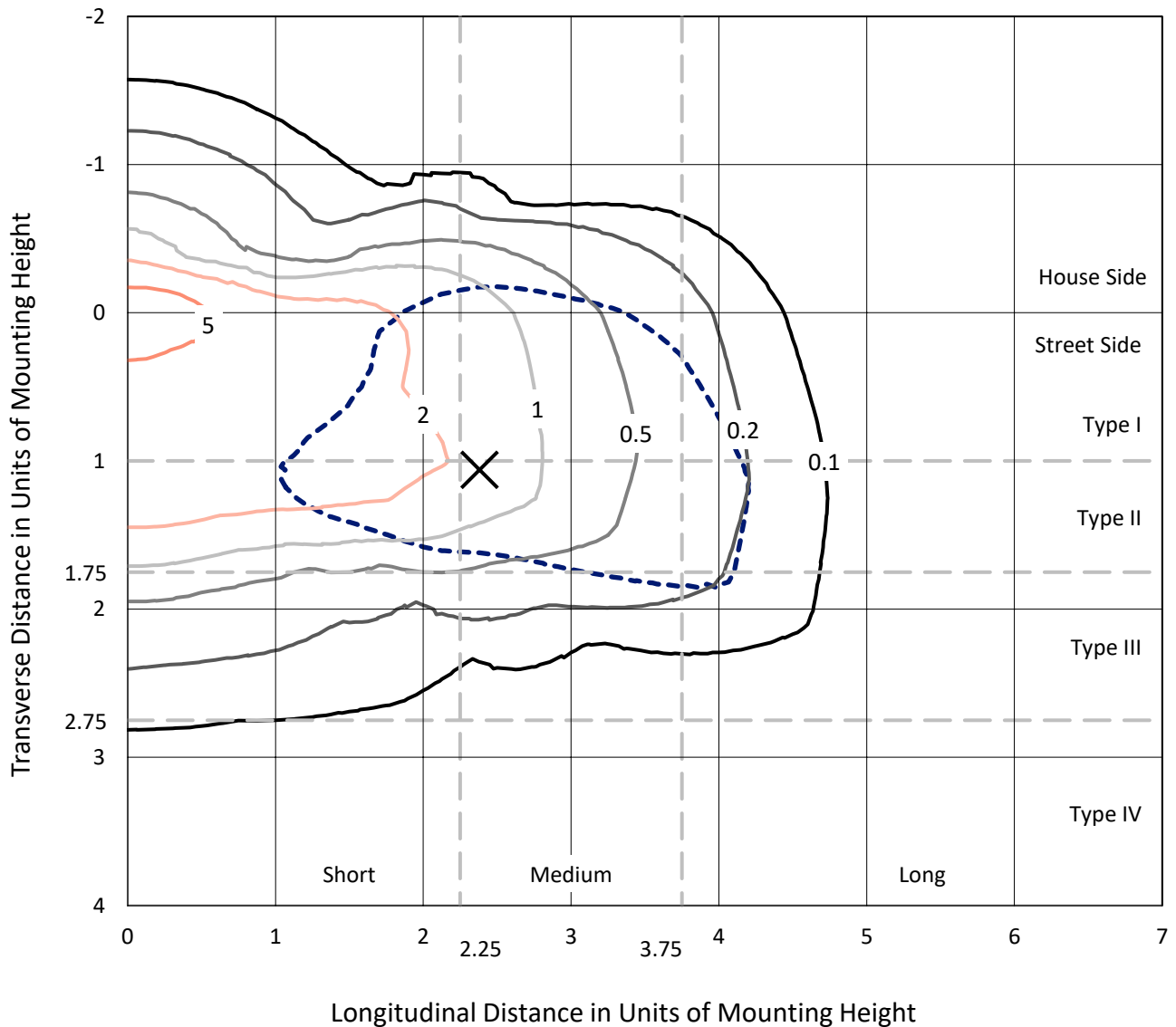
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

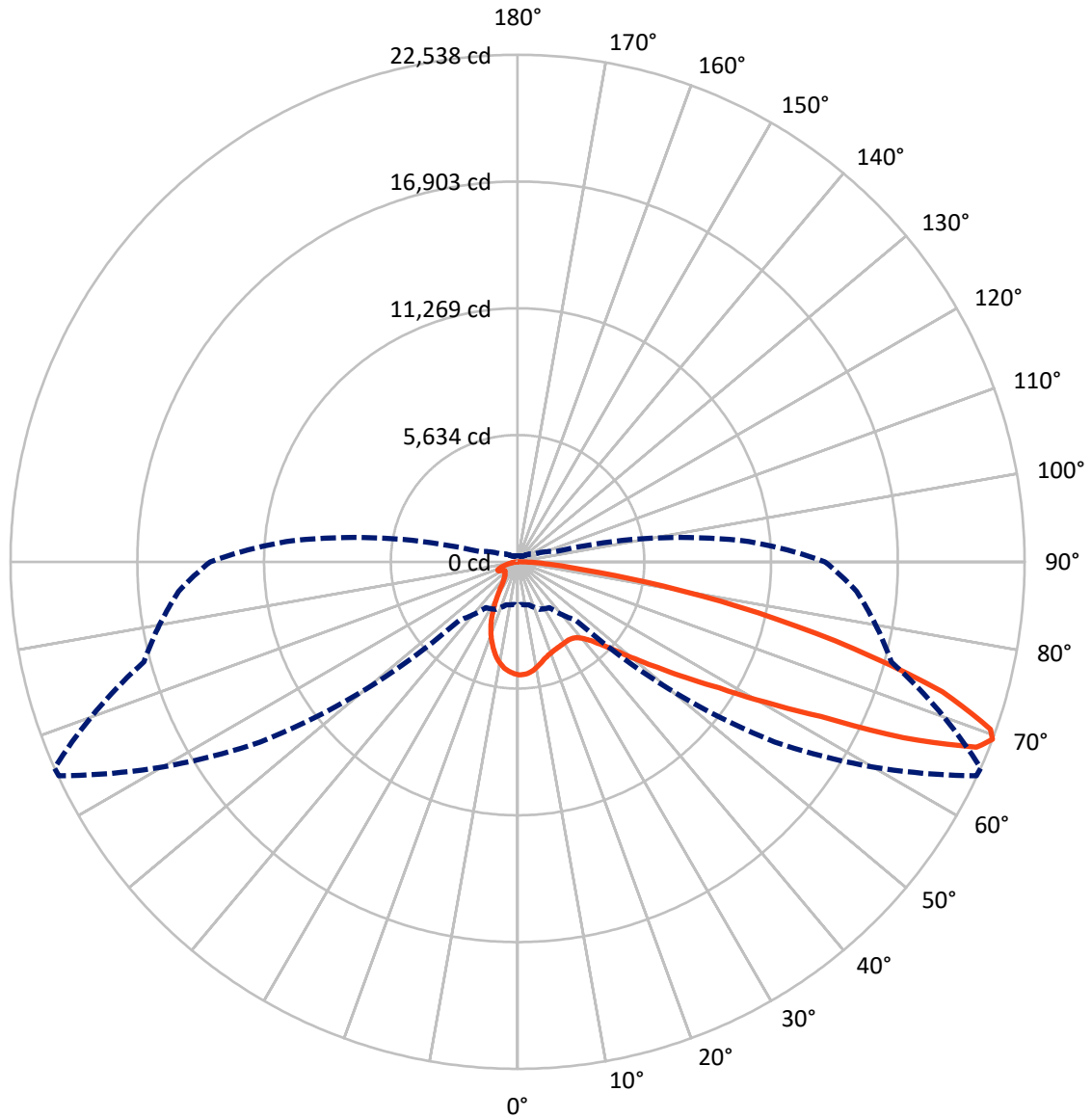
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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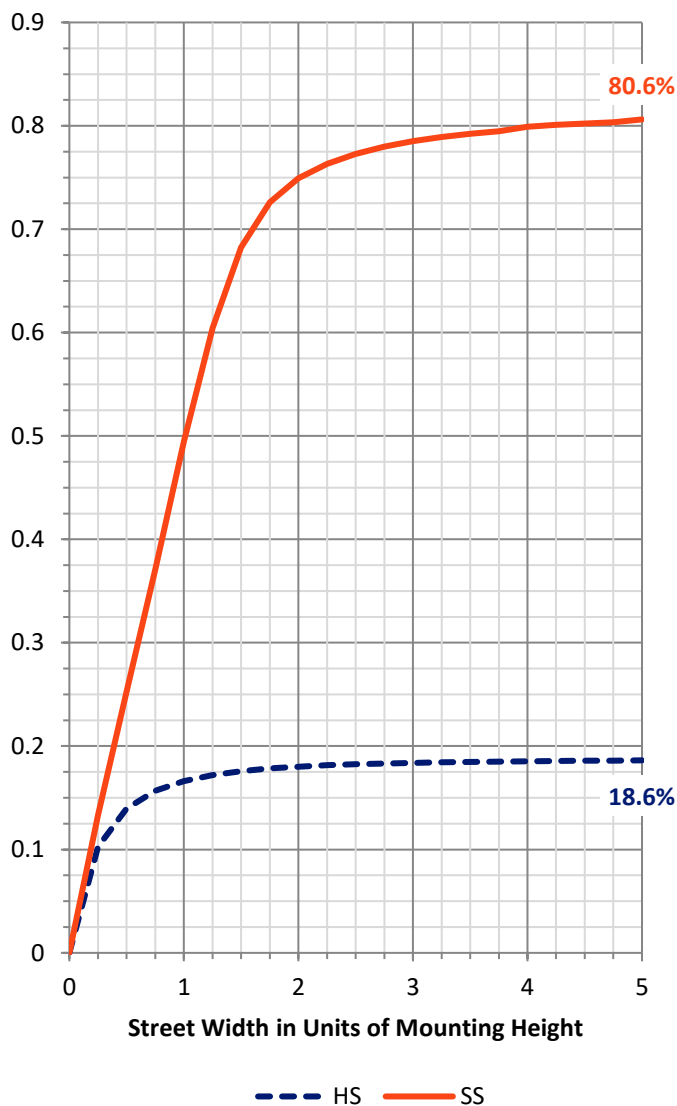
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4087.9	0.0	4087.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	17649.0	0.0	17649.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	21736.9	0.0	21736.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.9	2.0
10°-20°	1033.9	4.8
20°-30°	1407.5	6.5
30°-40°	1891.4	8.7
40°-50°	2824.2	13.0
50°-60°	4492.4	20.7
60°-70°	5525.4	25.4
70°-80°	3595.1	16.5
80°-90°	530.9	2.4
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°	21736.9	100.0
0°-180°	21736.9	100.0

Coefficient of Utilization

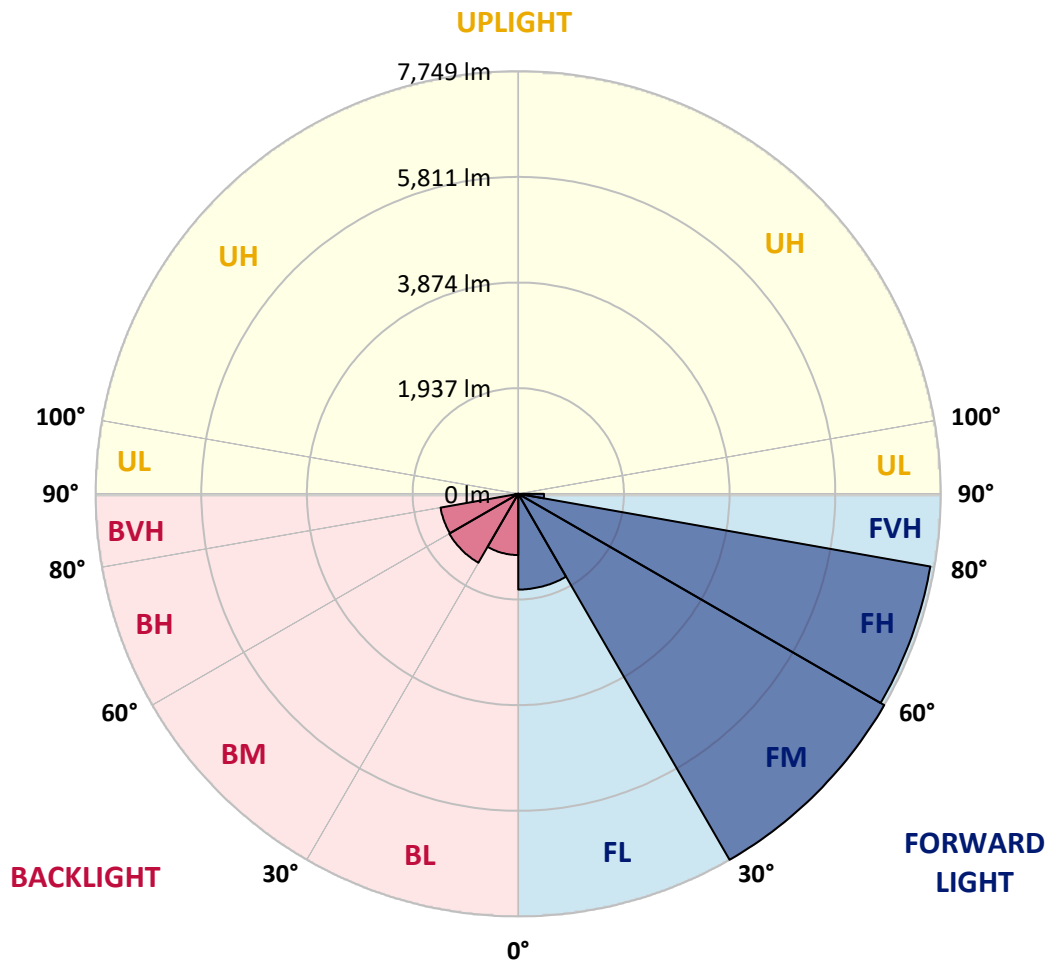


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1755.2	8.1			
FM (30°-60°)	7748.5	35.6			
FH (60°-80°)	7673.2	35.3			G4/12000
FVH (80°-90°)	472.0	2.2			G3/500
BL (0°-30°)	1122.1	5.2	B3/2500		
BM (30°-60°)	1459.6	6.7	B2/2500		
BH (60°-80°)	1447.3	6.7	B3/2500		G3/2500
BVH (80°-90°)	58.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5019.7	5019.7	5019.7	5019.7	5019.7	5019.7	5019.7	5019.7	5019.7	5019.7	5019.7
2.5°	4843.9	4863.1	4884.8	4908.9	4954.7	4980.0	4998.0	5018.4	5020.8	5031.7	5023.3
5°	4486.4	4509.2	4541.8	4587.5	4656.1	4763.2	4874.0	4964.3	4975.1	5025.7	5040.1
7.5°	4187.9	4201.1	4227.6	4301.0	4398.5	4517.7	4679.0	4862.0	4888.4	5008.9	5051.0
10°	3944.7	3957.9	3989.2	4065.1	4161.3	4310.6	4487.6	4728.3	4750.0	4957.0	5053.3
12.5°	3762.9	3775.0	3808.7	3883.3	3994.1	4133.7	4328.7	4583.9	4615.2	4888.4	5030.5
15°	3624.5	3647.4	3675.1	3736.5	3853.2	3988.1	4177.0	4451.5	4476.7	4816.2	5014.8
17.5°	3565.5	3576.4	3595.6	3652.1	3737.7	3870.1	4060.2	4347.9	4378.1	4765.7	5011.2
20°	3567.9	3578.8	3582.4	3613.7	3675.1	3789.4	3977.2	4266.1	4302.2	4721.1	5017.2
22.5°	3649.8	3651.0	3637.7	3626.9	3651.0	3746.1	3918.2	4204.7	4246.8	4701.8	5022.1
25°	3776.2	3797.9	3778.6	3728.0	3683.5	3729.2	3895.3	4171.0	4210.7	4674.2	5016.1
27.5°	3980.8	3984.5	3968.8	3900.1	3784.6	3750.9	3885.7	4145.8	4179.4	4653.7	4985.9
30°	4255.3	4244.4	4230.0	4154.1	3972.4	3834.0	3906.2	4122.9	4157.7	4623.6	4949.8
32.5°	4533.3	4567.0	4553.8	4464.7	4228.7	3995.3	3972.4	4120.5	4149.4	4600.8	4910.1
35°	4828.2	4843.9	4906.5	4860.8	4618.8	4256.5	4096.3	4157.7	4180.6	4601.9	4882.4
37.5°	5059.4	5101.5	5248.4	5288.1	5060.6	4601.9	4297.4	4263.7	4273.3	4661.0	4893.3
40°	5338.7	5410.8	5599.9	5762.3	5613.1	5051.0	4639.3	4459.9	4471.9	4803.0	4964.3
42.5°	5692.6	5743.1	5997.1	6217.4	6193.3	5644.4	5053.3	4781.3	4787.3	5085.8	5162.9
45°	6106.6	6178.9	6464.1	6795.2	6851.7	6316.1	5651.6	5267.6	5264.0	5525.2	5533.6
47.5°	6636.3	6680.8	6963.7	7324.8	7553.5	7159.9	6377.5	5965.8	5927.3	6165.7	6097.0
50°	7123.8	7193.7	7407.9	7802.8	8372.1	8148.2	7332.1	6871.0	6780.7	7003.5	6887.9
52.5°	7328.4	7401.9	7582.4	8072.3	9073.9	9426.6	8544.3	7950.8	7800.3	7971.3	7929.1
55°	6973.3	7068.5	7237.0	7832.8	9382.1	10901.2	10178.9	9199.1	9089.5	9016.1	9028.1
57.5°	6018.8	6109.0	6336.6	6993.8	9013.7	11971.3	12513.0	10803.7	10568.9	10230.7	10288.5
60°	4581.5	4638.0	4756.0	5484.3	7921.9	12249.4	15163.7	12832.0	12682.7	11440.5	11481.4
62.5°	3253.8	3317.6	3399.4	3762.9	5799.7	11465.7	17238.9	15664.5	15131.2	12693.5	12653.8
65°	2642.2	2598.9	2697.6	2867.3	3403.0	8886.1	17706.0	19595.9	18861.6	14343.9	13792.6
67.5°	2172.7	2127.0	2224.5	2526.7	2588.0	5158.1	16023.2	22147.9	22001.0	16138.7	14949.4
69°	1923.6	1899.6	1985.0	2329.3	2484.5	3663.0	13958.7	22503.0	22537.9	17196.8	15127.6
70°	1733.4	1743.0	1826.1	2229.4	2437.6	3020.2	11930.4	22013.0	22309.2	17725.2	14934.9
72.5°	1276.0	1296.4	1412.0	1846.5	2393.1	2562.8	7099.7	19227.5	19751.2	17756.6	13662.6
75°	892.0	882.4	984.7	1390.3	2260.7	2539.9	4169.8	14870.0	15463.4	15347.8	11480.2
77.5°	583.8	599.5	681.3	982.3	1901.9	2520.6	2718.1	10549.7	10934.9	10264.4	6790.3
80°	411.7	410.4	456.3	670.5	1410.8	2422.0	2225.8	6649.5	6552.0	4033.8	2013.9
82.5°	235.9	252.8	305.8	471.8	943.7	2131.9	2047.5	3180.3	2903.4	1149.6	680.1
85°	131.2	137.3	181.7	285.3	551.3	1605.8	1787.6	1446.9	1365.1	480.3	292.5
87.5°	42.1	45.7	75.9	144.5	250.4	758.3	1012.3	668.1	616.3	173.4	118.0
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°	5019.7	5019.7	5019.7	5019.7	5019.7	5019.7	5019.7	5019.7	5019.7	5019.7	5019.7
2.5°	5026.9	5041.3	5002.8	4965.5	4931.8	4884.8	4842.7	4807.8	4783.7	4780.1	4768.1
5°	5043.7	5044.9	4971.5	4872.8	4776.5	4670.6	4561.1	4482.8	4409.3	4368.4	4347.9
7.5°	5055.8	5044.9	4912.5	4752.4	4567.0	4374.5	4181.8	4027.8	3908.6	3861.6	3879.7
10°	5051.0	5017.2	4823.4	4567.0	4297.4	4009.7	3732.8	3516.1	3317.6	3215.2	3217.7
12.5°	5024.4	4969.1	4691.0	4358.8	3962.8	3577.5	3153.8	2861.3	2631.4	2495.3	2453.2
15°	5001.6	4905.3	4535.8	4075.9	3583.6	3033.4	2517.0	2155.9	1963.3	1856.2	1855.0
17.5°	4977.5	4843.9	4366.0	3776.2	3147.8	2440.0	1898.3	1622.7	1532.4	1543.2	1525.1
20°	4952.2	4771.7	4189.0	3442.7	2616.9	1820.1	1421.6	1309.6	1334.9	1384.3	1391.5
22.5°	4923.3	4694.6	3998.9	3075.6	2058.4	1369.9	1153.2	1136.4	1201.4	1278.4	1289.2
25°	4878.8	4598.3	3759.3	2691.6	1587.8	1103.9	1009.9	1022.0	1085.8	1150.8	1158.0
27.5°	4816.2	4479.2	3517.4	2212.5	1192.9	947.4	923.3	938.9	970.2	1009.9	1019.5
30°	4732.0	4344.3	3239.3	1798.4	955.8	869.1	859.5	867.9	886.0	902.8	907.7
32.5°	4647.7	4214.3	2958.8	1377.1	852.3	817.4	807.7	807.7	807.7	810.1	811.3
35°	4569.4	4091.6	2657.9	1072.6	798.1	776.4	763.2	748.7	746.4	737.9	737.9
37.5°	4526.1	3979.6	2337.7	898.0	758.3	742.8	724.7	700.6	687.3	688.6	686.1
40°	4534.5	3906.2	2046.4	799.3	725.8	709.0	681.3	653.6	645.2	645.2	642.8
42.5°	4629.6	3882.1	1767.1	747.5	694.6	675.3	640.4	615.1	610.3	609.1	611.5
45°	4848.7	3941.1	1516.7	713.9	668.1	639.2	604.3	581.4	576.6	576.6	575.4
47.5°	5276.0	4132.5	1337.4	692.2	648.8	611.5	575.4	552.5	544.1	541.7	541.7
50°	5940.5	4547.7	1203.8	672.9	624.8	586.2	548.9	522.4	509.2	508.0	506.8
52.5°	6863.8	5195.4	1152.0	658.4	598.3	559.8	518.8	493.5	476.7	473.1	470.7
55°	7943.5	6099.4	1223.0	647.6	570.6	529.6	487.5	461.0	445.4	438.2	437.0
57.5°	9194.2	7185.2	1492.6	633.2	545.3	497.1	456.3	429.7	412.9	404.5	402.1
60°	10317.4	8301.1	1963.3	624.8	523.7	462.2	420.1	396.0	380.4	371.9	370.8
62.5°	11551.2	9365.2	2525.5	647.6	514.0	428.5	386.4	364.7	351.5	343.0	343.0
65°	12869.3	10430.5	2897.4	724.7	528.4	402.1	350.3	332.2	320.2	314.2	313.0
67.5°	13757.7	10798.8	2387.1	804.1	564.5	373.2	315.4	300.9	293.7	287.7	287.7
69°	13661.4	10333.0	1761.1	824.6	575.4	358.7	296.1	285.3	275.7	273.3	270.8
70°	13356.8	9802.1	1475.8	811.3	567.0	345.5	284.1	270.8	262.4	260.0	258.8
72.5°	11896.7	8500.9	1099.0	705.4	482.7	299.7	251.6	239.5	232.3	228.7	228.7
75°	9884.0	6948.0	858.2	560.9	378.0	252.8	215.5	205.9	199.8	197.4	196.2
77.5°	5539.6	3879.7	616.3	439.3	286.5	204.7	180.6	172.1	166.2	163.7	163.7
80°	1543.2	1108.6	362.3	290.1	195.0	155.3	143.2	137.3	128.8	122.8	126.4
82.5°	581.4	480.3	207.0	174.5	123.9	103.5	99.9	95.1	91.5	83.1	83.1
85°	282.9	233.5	132.4	92.7	68.6	54.2	51.8	49.3	47.0	41.0	42.1
87.5°	97.5	103.5	57.8	33.7	20.4	13.2	10.8	6.0	6.0	6.0	6.0
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)