

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: P319472

Luminaire Tested: **GLEON-SA8A-827-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8A-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA 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: 26897 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

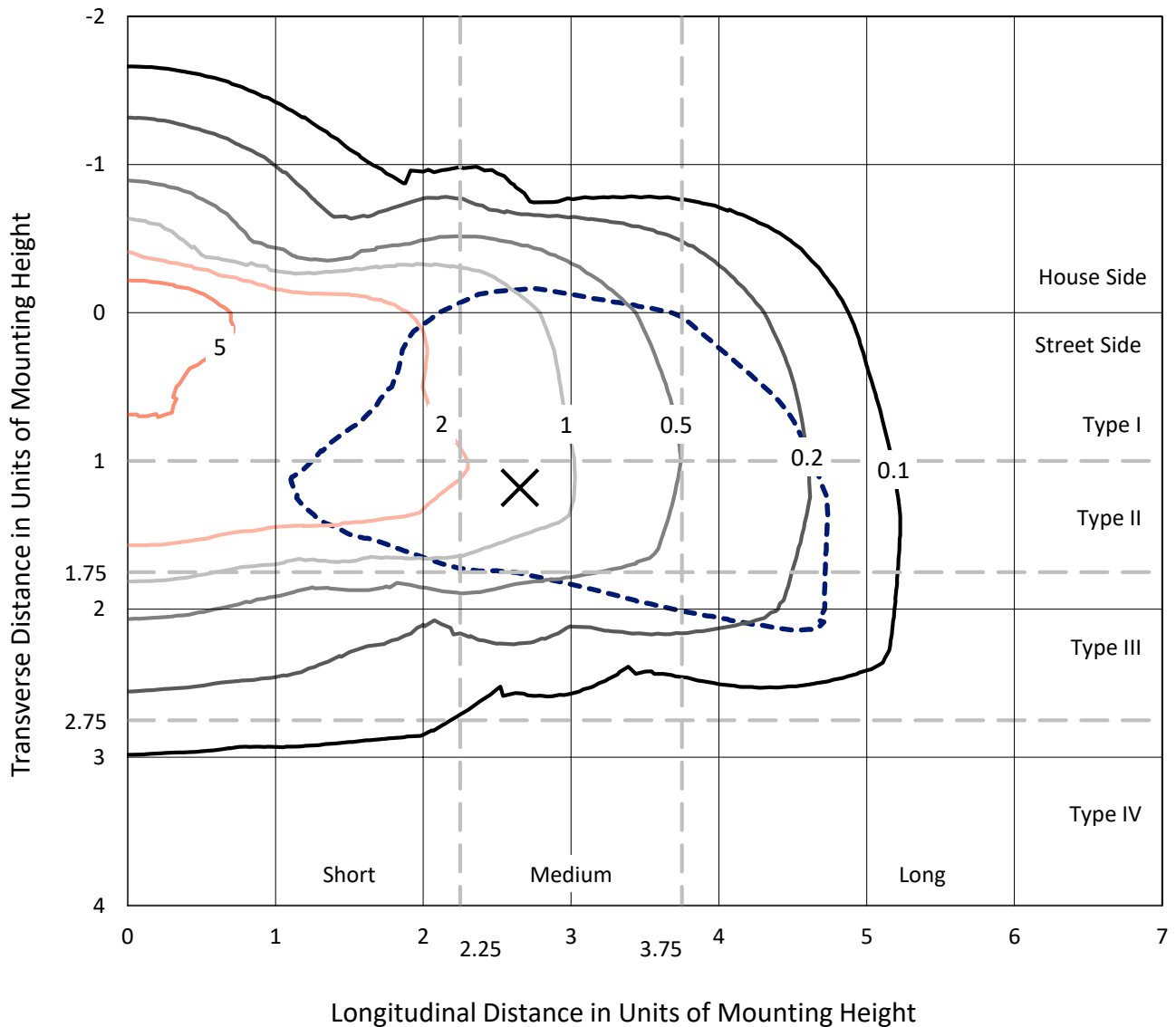
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

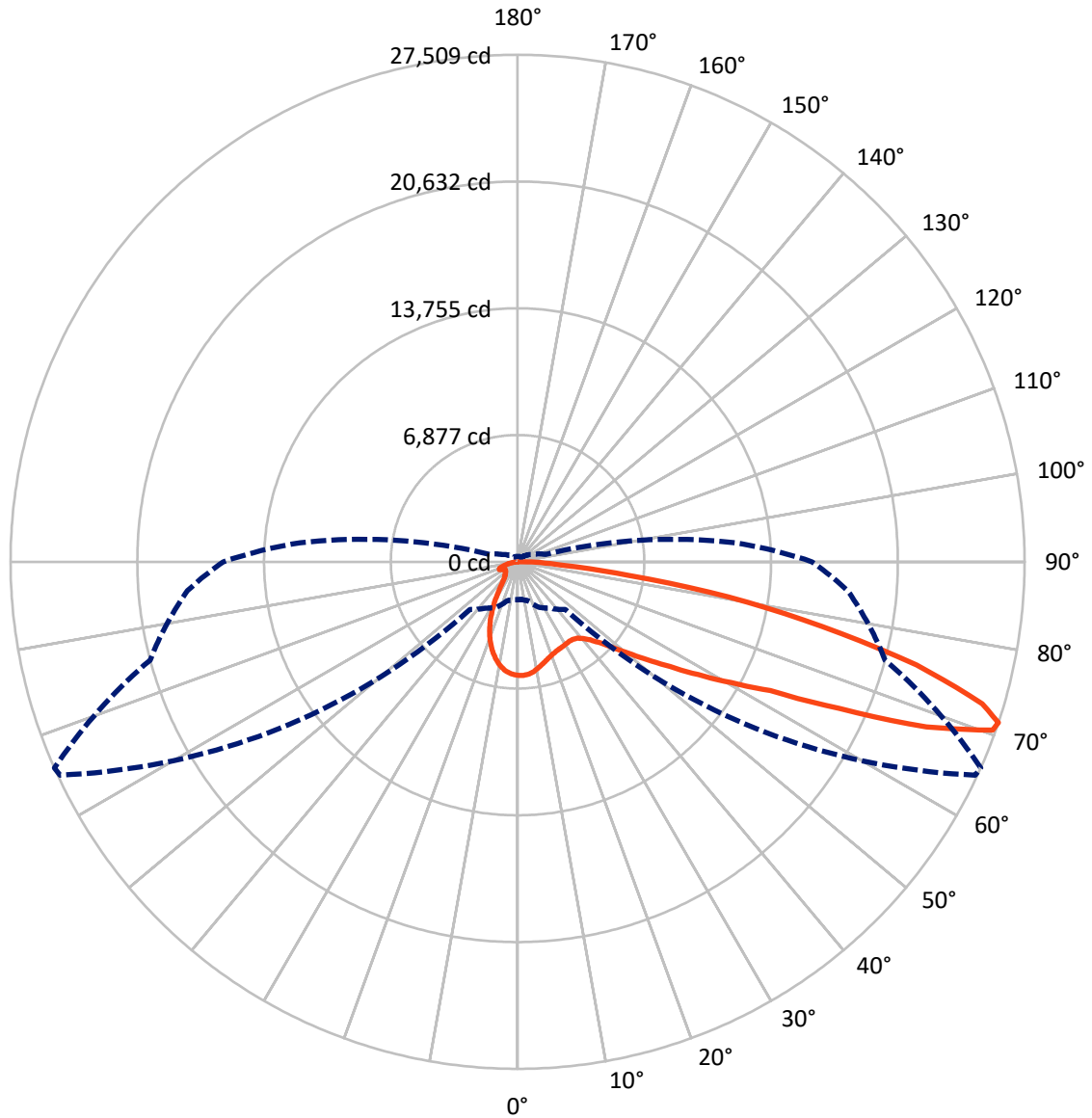
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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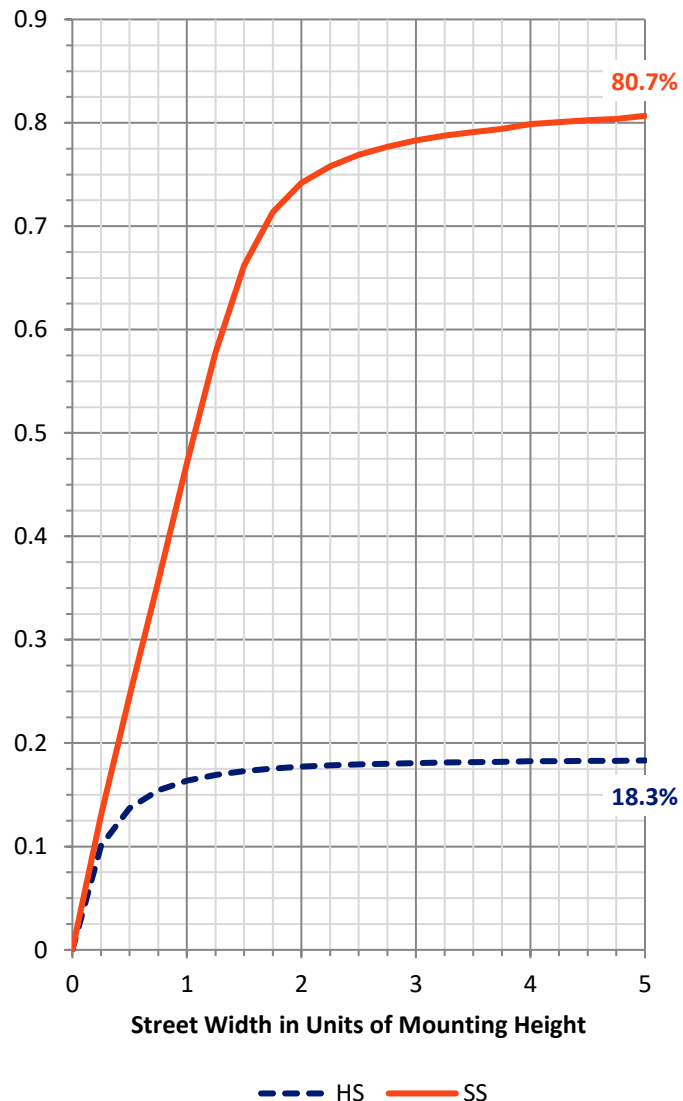
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4984.8	0.0	4984.8
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	21912.2	0.0	21912.2
	% Fixture	81.5	0.0	81.5
Total	Lumens	26897.0	0.0	26897.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.4	2.0
10°-20°	1300.8	4.8
20°-30°	1747.3	6.5
30°-40°	2298.6	8.5
40°-50°	3343.8	12.4
50°-60°	5223.5	19.4
60°-70°	6543.2	24.3
70°-80°	4991.0	18.6
80°-90°	906.3	3.4
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°	26897.0	100.0
0°-180°	26897.0	100.0

Coefficient of Utilization

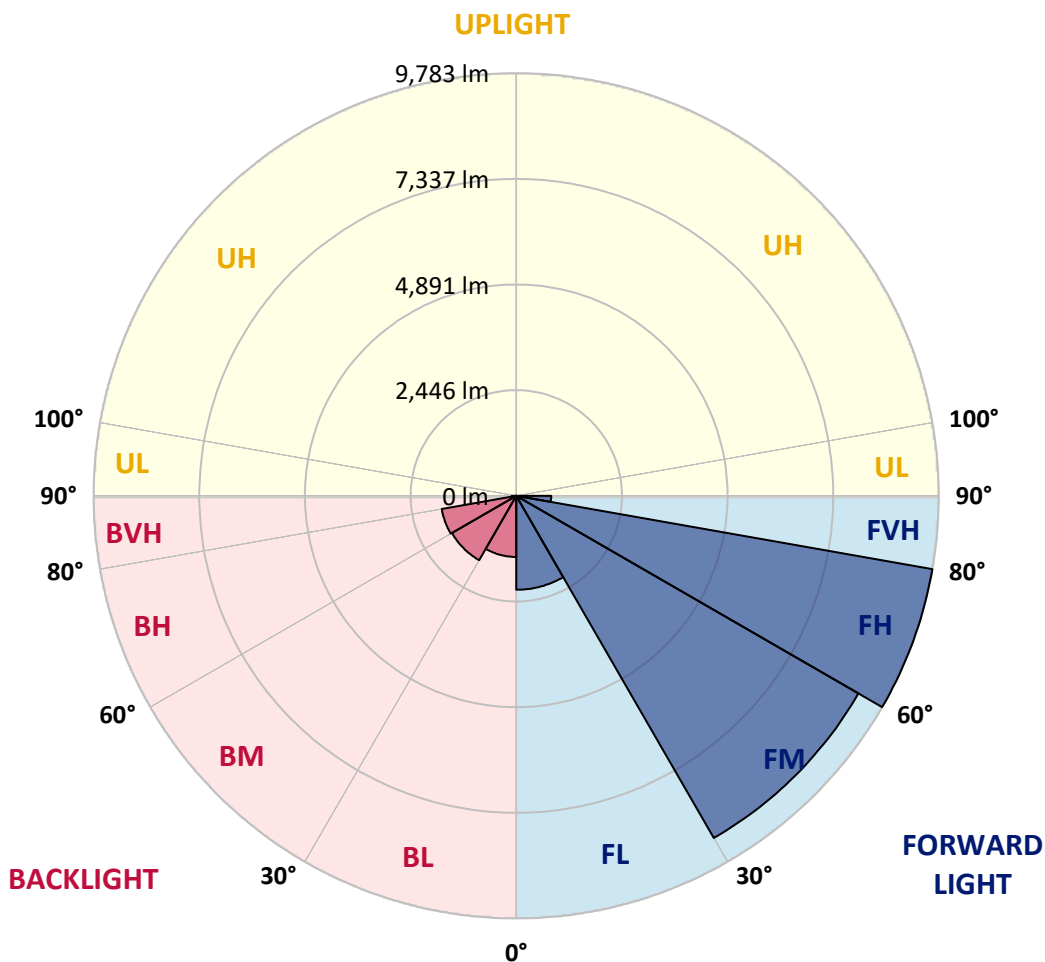


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2175.0	8.1			
FM (30°-60°)	9146.3	34.0			
FH (60°-80°)	9782.7	36.4			G4/12000
FVH (80°-90°)	808.2	3.0			G5
BL (0°-30°)	1415.5	5.3	B3/2500		
BM (30°-60°)	1719.6	6.4	B2/2500		
BH (60°-80°)	1751.5	6.5	B3/2500		G3/2500
BVH (80°-90°)	98.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6161.6	6161.6	6161.6	6161.6	6161.6	6161.6	6161.6	6161.6	6161.6	6161.6	6161.6
2.5°	6047.4	6038.1	6065.9	6094.7	6105.9	6124.4	6152.3	6168.1	6167.2	6169.9	6160.7
5°	5646.2	5634.1	5689.8	5735.3	5822.6	5921.1	6040.9	6126.3	6128.2	6176.4	6189.4
7.5°	5266.4	5258.0	5322.1	5395.4	5496.7	5647.1	5841.2	6025.1	6036.2	6167.2	6212.7
10°	4961.8	4959.9	5022.1	5102.0	5219.9	5388.0	5610.9	5880.2	5896.9	6122.6	6216.4
12.5°	4724.0	4727.7	4781.6	4872.6	4997.1	5172.6	5414.0	5717.7	5744.6	6052.0	6195.0
15°	4548.5	4563.4	4607.0	4699.0	4821.5	4999.8	5247.8	5567.2	5608.1	5973.1	6182.9
17.5°	4448.2	4464.9	4495.6	4571.7	4686.9	4858.7	5093.6	5443.7	5480.9	5912.7	6183.9
20°	4418.5	4432.4	4450.1	4496.5	4594.0	4750.0	4972.0	5332.3	5372.2	5864.4	6193.2
22.5°	4477.0	4487.2	4489.1	4485.4	4544.8	4672.0	4883.8	5250.6	5293.3	5832.8	6199.7
25°	4602.4	4616.3	4606.1	4571.7	4552.2	4630.2	4838.3	5196.7	5239.4	5809.6	6186.7
27.5°	4790.9	4792.8	4784.4	4739.8	4647.9	4634.9	4824.3	5165.1	5206.0	5782.7	6159.7
30°	5047.2	5059.3	5044.4	4984.1	4833.6	4709.2	4841.0	5134.5	5171.6	5748.3	6116.1
32.5°	5347.2	5376.9	5375.9	5312.8	5097.4	4875.4	4909.8	5115.9	5144.7	5712.1	6063.1
35°	5658.3	5699.1	5775.3	5748.3	5481.8	5138.2	5041.6	5145.6	5165.1	5707.5	6026.0
37.5°	5981.4	6022.3	6179.2	6251.7	5939.6	5514.3	5249.6	5250.6	5259.9	5764.1	6023.2
40°	6319.5	6363.1	6599.0	6787.5	6533.0	5990.7	5584.9	5469.7	5459.5	5903.4	6078.0
42.5°	6793.1	6832.1	7115.3	7355.8	7191.5	6600.8	6048.3	5807.8	5786.4	6176.4	6253.5
45°	7392.0	7425.5	7726.4	7983.6	7899.1	7297.3	6630.5	6273.0	6269.3	6631.5	6609.2
47.5°	8104.3	8130.3	8400.6	8649.4	8680.1	8098.7	7362.3	6990.9	6930.5	7255.5	7159.9
50°	8846.3	8875.1	9059.0	9326.4	9553.9	9171.3	8304.0	7870.3	7789.5	8079.2	7939.9
52.5°	9337.6	9375.6	9535.4	9874.3	10536.4	10347.0	9417.4	8936.4	8813.8	9077.5	8970.7
55°	9118.4	9203.8	9448.1	9991.3	11322.1	12143.0	10790.9	10179.8	10041.5	10260.6	10197.5
57.5°	8122.0	8239.0	8572.4	9410.9	11432.6	13725.4	12867.4	11644.3	11546.8	11483.7	11512.5
60°	6300.9	6413.2	6826.5	7919.5	10662.7	14880.7	15992.3	13449.6	13308.5	12711.3	12737.3
62.5°	4459.4	4402.7	4686.0	5485.5	8664.3	15016.2	19548.0	15864.1	15399.8	14007.7	13893.5
65°	3400.7	3387.7	3514.9	3769.4	5247.8	13393.9	21666.3	19922.3	19197.0	15532.6	15263.3
67.5°	2794.3	2771.1	2896.5	3267.0	3379.4	8641.1	21712.7	24630.5	23918.3	17430.7	16847.5
70°	2297.5	2271.5	2388.5	2866.7	3123.0	4382.3	18273.9	27387.7	27349.6	19834.1	18043.6
71°	2059.7	2041.2	2181.4	2712.6	3068.3	3652.4	15777.7	27395.1	27509.4	20647.6	17973.1
72.5°	1677.1	1683.6	1832.2	2414.5	3027.4	3225.2	11596.0	26118.2	26359.7	21423.0	17331.4
75°	1114.4	1119.9	1315.0	1857.3	2935.5	3155.5	6373.3	21916.1	22360.0	20958.7	15814.9
77.5°	748.5	746.6	879.4	1274.1	2557.5	3155.5	3736.9	16391.6	16879.1	16676.7	12192.2
80°	515.4	511.7	605.5	879.4	1936.2	3193.6	2889.0	11487.4	11635.0	9006.0	4955.3
82.5°	315.7	318.5	395.6	621.3	1317.8	2874.2	2727.4	6263.7	6103.1	2525.9	1237.9
85°	181.1	180.2	252.6	420.7	846.0	2425.6	2659.6	2695.9	2473.0	760.6	447.6
87.5°	65.0	69.6	135.6	233.1	484.8	1689.2	2256.6	1402.3	1263.9	343.6	202.4
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°	6161.6	6161.6	6161.6	6161.6	6161.6	6161.6	6161.6	6161.6	6161.6	6161.6	6161.6
2.5°	6154.2	6159.7	6153.2	6116.1	6084.5	6033.4	6004.6	5964.7	5952.6	5947.1	5961.9
5°	6177.4	6179.2	6124.4	6026.9	5917.3	5788.3	5695.4	5581.2	5527.3	5504.1	5519.0
7.5°	6198.7	6190.4	6070.6	5883.9	5681.5	5456.7	5257.1	5074.1	4967.3	4923.7	4927.4
10°	6201.5	6166.2	5974.0	5685.2	5371.3	5041.6	4735.2	4452.9	4274.6	4158.5	4193.8
12.5°	6172.7	6113.3	5831.9	5427.9	4992.4	4542.9	4128.8	3705.3	3450.9	3332.9	3336.6
15°	6150.4	6042.7	5657.3	5125.2	4540.2	3944.9	3379.4	2881.6	2610.4	2489.7	2433.1
17.5°	6131.9	5966.6	5454.9	4784.4	4006.2	3251.2	2571.4	2127.5	1978.9	1943.7	1928.8
20°	6105.9	5885.8	5229.2	4389.7	3397.9	2474.8	1877.7	1658.6	1659.5	1700.4	1705.9
22.5°	6069.6	5793.8	4988.7	3946.8	2745.1	1802.5	1471.9	1408.8	1472.8	1550.8	1564.8
25°	6015.8	5685.2	4721.2	3457.4	2093.2	1385.5	1257.4	1254.6	1332.6	1414.3	1426.4
27.5°	5939.6	5543.1	4424.1	2931.7	1542.5	1177.5	1126.5	1146.0	1203.5	1263.0	1267.6
30°	5837.5	5377.8	4096.3	2377.3	1209.1	1048.4	1042.9	1060.5	1095.8	1137.6	1141.3
32.5°	5725.1	5209.7	3746.2	1840.6	1035.4	978.8	984.4	992.7	1009.4	1026.2	1029.9
35°	5623.0	5037.9	3387.7	1398.5	952.8	933.3	929.6	927.7	929.6	924.0	924.9
37.5°	5557.0	4895.8	3014.4	1113.4	905.4	893.4	882.2	868.3	852.5	843.2	845.1
40°	5532.9	4790.0	2636.4	962.1	866.4	858.1	836.7	807.0	788.4	782.9	782.9
42.5°	5597.9	4735.2	2271.5	885.9	833.9	820.0	784.7	750.3	736.4	735.5	734.6
45°	5796.6	4757.5	1924.2	844.1	804.2	777.3	730.8	702.1	692.8	694.6	693.7
47.5°	6153.2	4897.7	1627.0	816.3	774.5	739.2	687.2	664.0	652.8	652.8	653.8
50°	6759.6	5225.5	1390.2	793.1	749.4	703.9	655.6	626.8	612.0	611.1	611.1
52.5°	7642.8	5812.4	1242.5	773.6	721.6	672.3	624.1	587.8	570.2	566.5	564.6
55°	8749.7	6653.8	1201.7	760.6	684.4	638.0	586.0	549.8	530.3	521.9	521.0
57.5°	9987.6	7677.1	1282.5	744.8	646.3	597.1	544.2	509.8	489.4	479.2	478.3
60°	11240.4	8794.3	1612.1	722.5	614.8	552.5	501.5	469.9	449.5	438.3	436.5
62.5°	12495.0	9971.8	2285.4	720.6	592.5	509.8	457.8	430.9	411.4	399.3	396.5
65°	13910.2	11260.8	3050.6	769.8	585.0	470.8	413.2	391.9	375.2	364.0	363.1
67.5°	15535.4	12716.0	2977.2	871.1	610.1	435.5	371.5	354.7	342.7	333.4	332.5
70°	16297.8	12488.5	1850.8	942.6	645.4	401.2	331.5	319.5	310.2	303.7	300.9
71°	15978.3	11857.9	1551.8	934.2	641.7	386.3	315.7	306.5	297.2	291.6	288.8
72.5°	15107.3	10814.1	1294.5	869.2	599.9	359.4	295.3	286.0	277.7	271.2	269.3
75°	13556.4	9657.9	1036.4	694.6	478.3	303.7	259.1	248.9	242.4	238.7	234.9
77.5°	9965.3	6892.4	801.4	548.8	352.0	247.9	221.0	213.6	207.1	201.5	198.7
80°	3817.7	2669.9	539.5	409.5	258.2	195.9	178.3	174.6	168.1	164.4	164.4
82.5°	1028.0	797.7	287.9	247.9	172.7	143.0	136.5	134.7	129.1	121.7	122.6
85°	416.0	352.0	161.6	136.5	105.9	84.5	91.9	92.9	86.4	77.1	78.0
87.5°	182.9	149.5	90.1	60.4	46.4	32.5	41.8	41.8	38.1	31.6	28.8
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)