

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: P648097

Luminaire Tested: **GALN-SA8A-835-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648097
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-SA8A-835-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 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: 28862.2 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

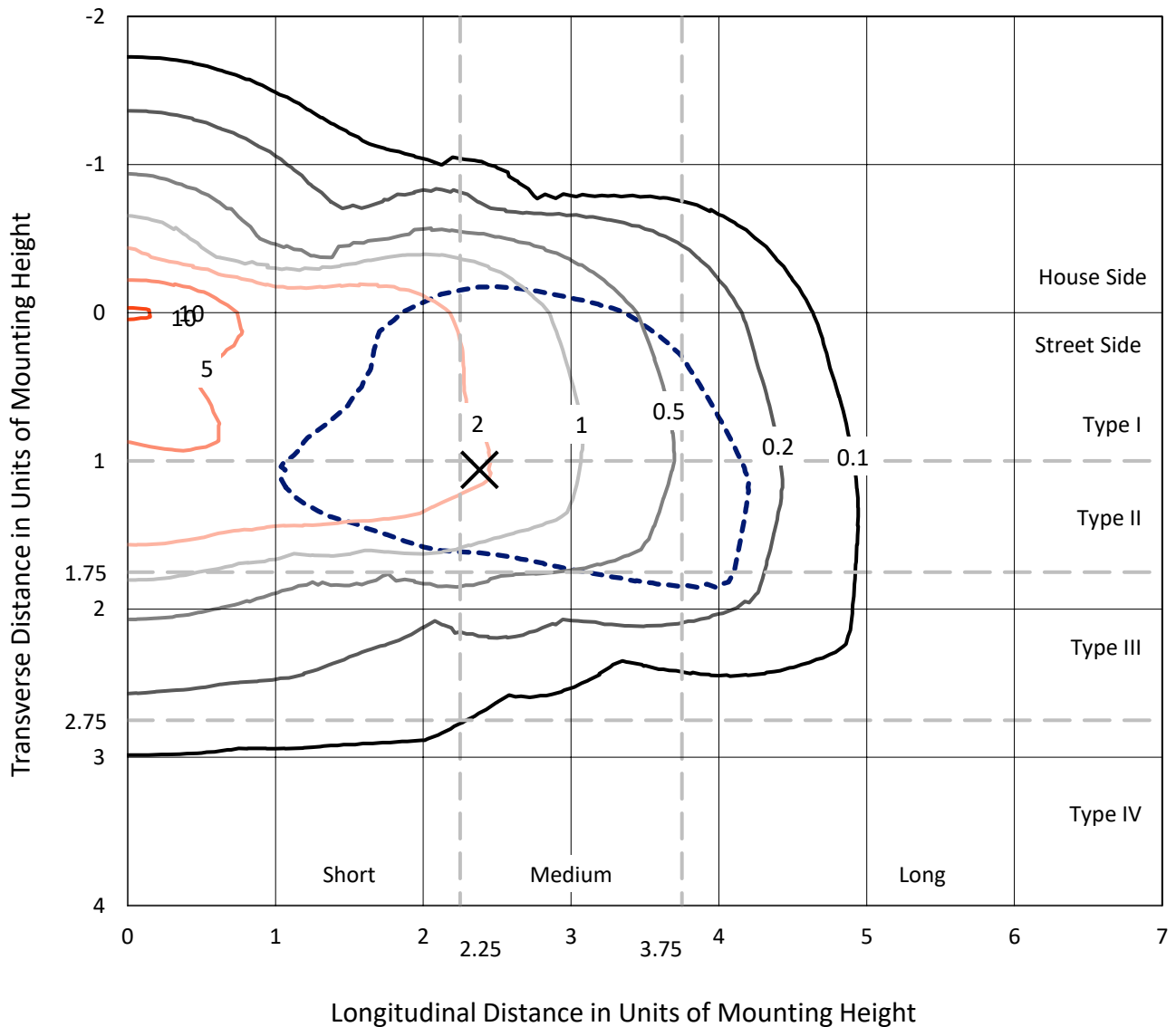
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

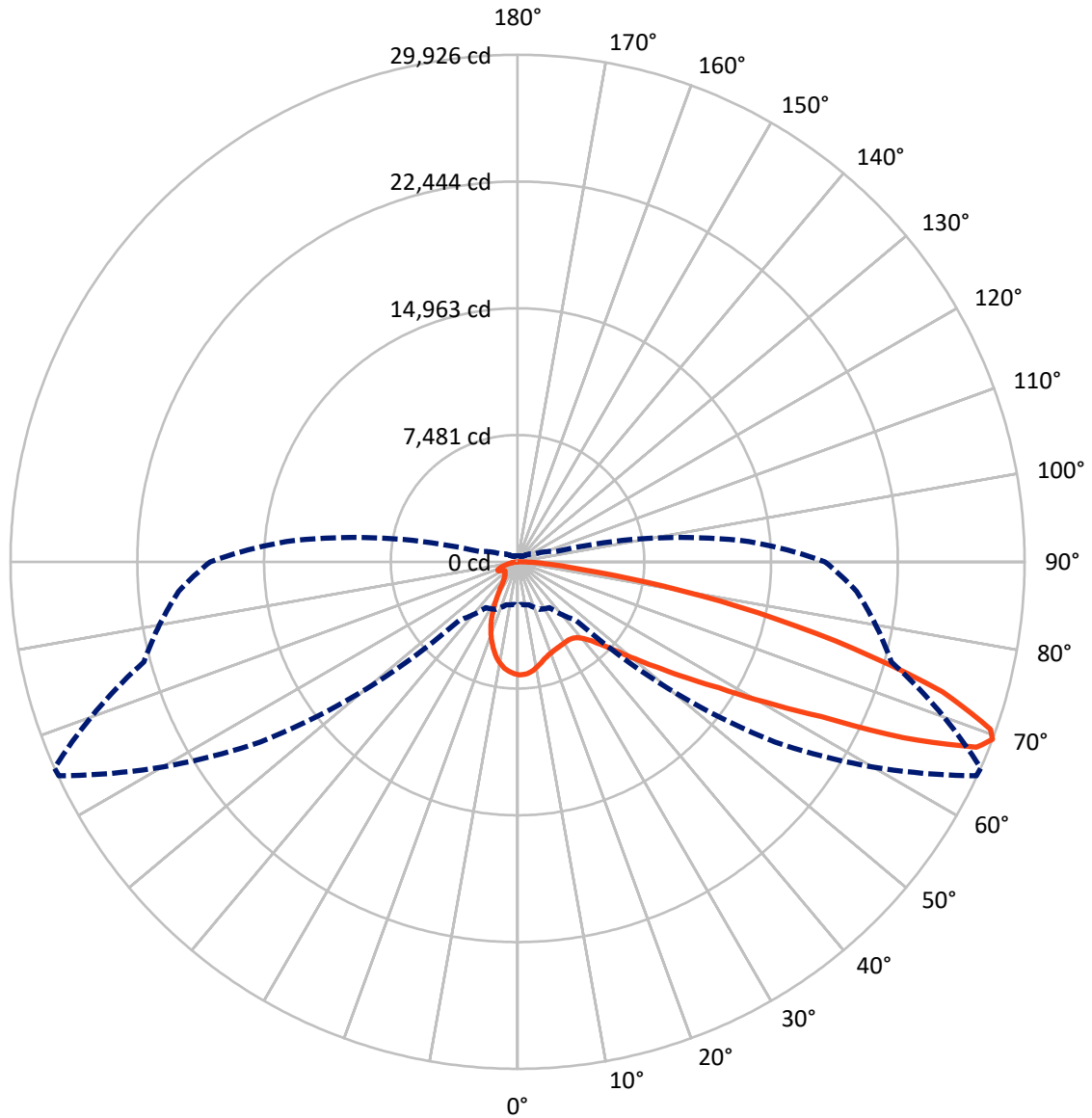
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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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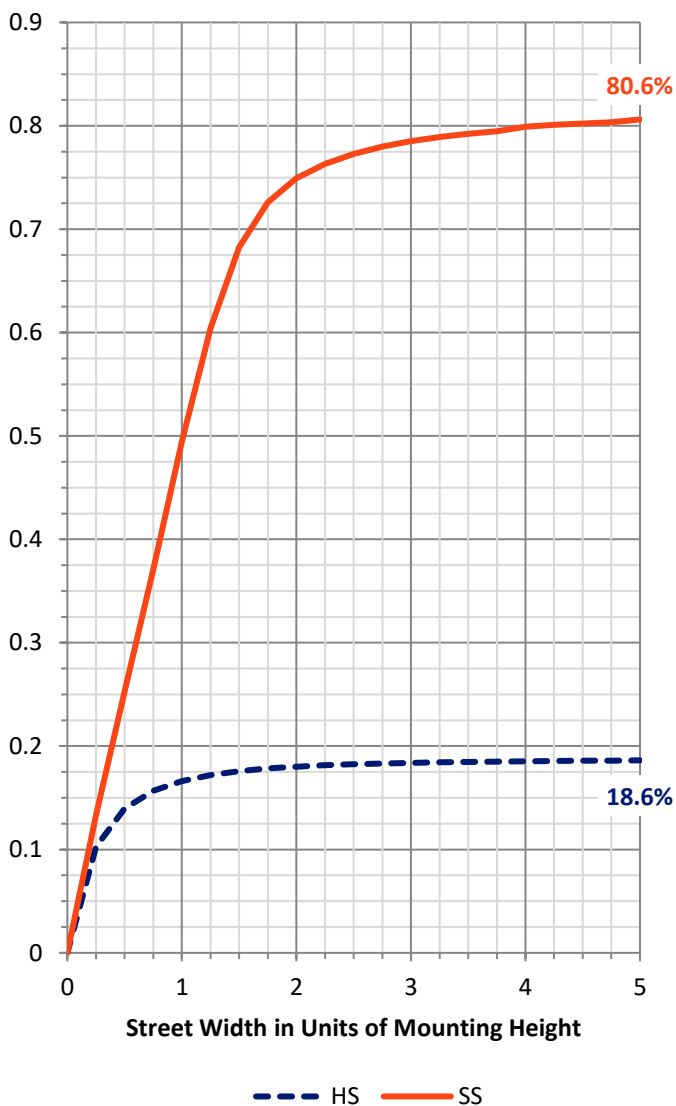
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5427.9	0.0	5427.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	23434.3	0.0	23434.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	28862.2	0.0	28862.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.8	2.0
10°-20°	1372.8	4.8
20°-30°	1868.9	6.5
30°-40°	2511.5	8.7
40°-50°	3750.0	13.0
50°-60°	5965.0	20.7
60°-70°	7336.6	25.4
70°-80°	4773.6	16.5
80°-90°	704.9	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°	28862.2	100.0
0°-180°	28862.2	100.0

Coefficient of Utilization

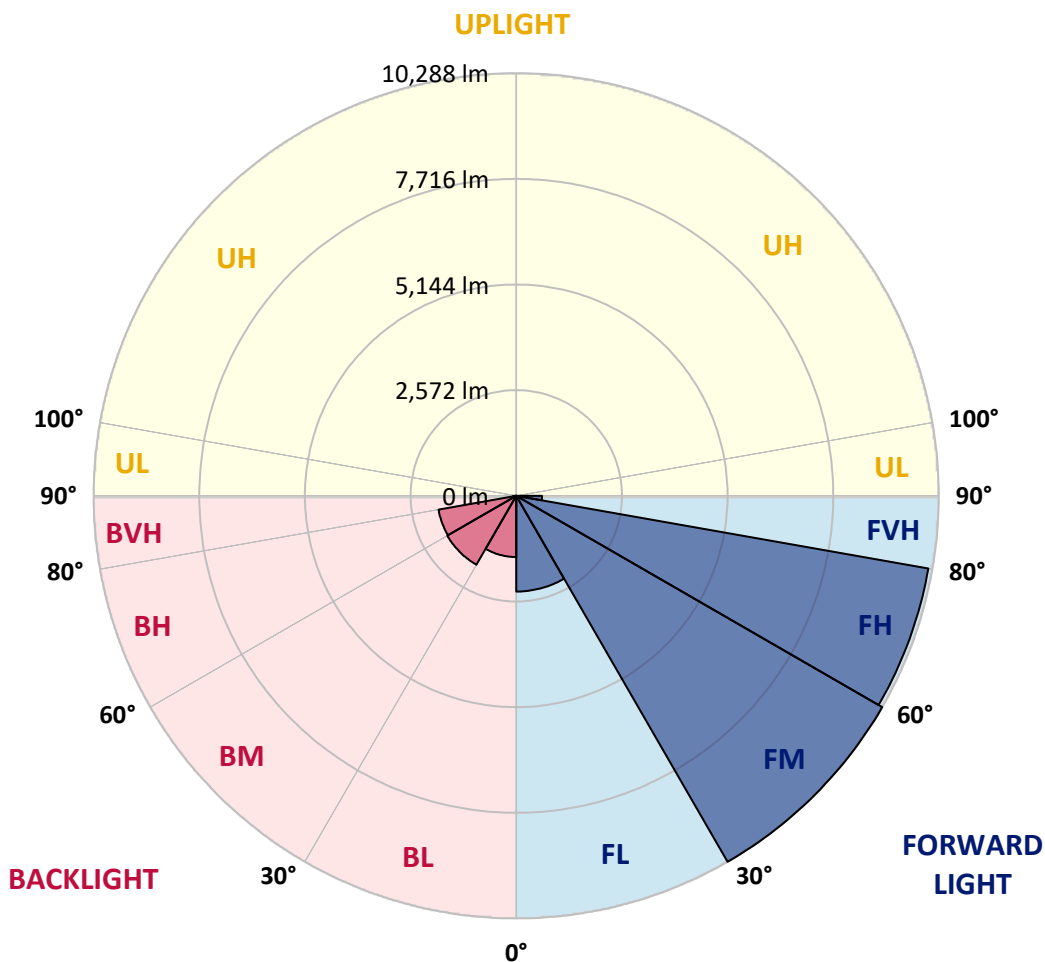


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2330.6	8.1			
FM (30°-60°)	10288.5	35.6			
FH (60°-80°)	10188.5	35.3			G4/12000
FVH (80°-90°)	626.7	2.2			G4/750
BL (0°-30°)	1490.0	5.2	B3/2500		
BM (30°-60°)	1938.0	6.7	B2/2500		
BH (60°-80°)	1921.7	6.7	B3/2500		G3/2500
BVH (80°-90°)	78.2	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°	6665.1	6665.1	6665.1	6665.1	6665.1	6665.1	6665.1	6665.1	6665.1	6665.1	6665.1
2.5°	6431.7	6457.3	6486.1	6518.0	6578.8	6612.4	6636.3	6663.5	6666.7	6681.0	6669.9
5°	5957.0	5987.4	6030.5	6091.3	6182.4	6324.6	6471.7	6591.5	6605.9	6673.0	6692.2
7.5°	5560.6	5578.2	5613.4	5710.9	5840.3	5998.6	6212.7	6455.7	6490.8	6650.7	6706.6
10°	5237.7	5255.3	5296.9	5397.6	5525.5	5723.7	5958.6	6278.3	6307.1	6582.0	6709.8
12.5°	4996.4	5012.4	5057.2	5156.2	5303.3	5488.7	5747.6	6086.5	6128.1	6490.8	6679.5
15°	4812.6	4842.9	4879.7	4961.2	5116.3	5295.3	5546.2	5910.6	5944.2	6394.9	6658.7
17.5°	4734.3	4748.7	4774.3	4849.4	4962.8	5138.7	5391.2	5773.2	5813.1	6327.8	6653.9
20°	4737.5	4751.9	4756.6	4798.2	4879.7	5031.6	5280.9	5664.5	5712.5	6268.7	6661.8
22.5°	4846.1	4847.8	4830.2	4815.8	4847.8	4974.0	5202.6	5583.0	5638.9	6243.1	6668.3
25°	5014.0	5042.8	5017.2	4950.0	4890.9	4951.7	5172.3	5538.2	5591.0	6206.4	6660.3
27.5°	5285.7	5290.5	5269.7	5178.6	5025.2	4980.4	5159.4	5504.6	5549.4	6179.2	6620.3
30°	5650.1	5635.7	5616.5	5515.8	5274.5	5090.7	5186.6	5474.3	5520.7	6139.2	6572.3
32.5°	6019.3	6064.1	6046.5	5928.2	5615.0	5304.9	5274.5	5471.1	5509.5	6108.9	6519.6
35°	6411.0	6431.7	6514.8	6454.1	6132.8	5651.7	5439.2	5520.7	5551.0	6110.5	6482.8
37.5°	6717.8	6773.7	6968.8	7021.5	6719.4	6110.5	5706.0	5661.3	5674.1	6188.8	6497.3
40°	7088.7	7184.6	7435.4	7651.2	7453.1	6706.6	6160.0	5921.8	5937.8	6377.4	6591.5
42.5°	7558.5	7625.7	7963.0	8255.4	8223.5	7494.6	6709.8	6348.6	6356.6	6753.0	6855.2
45°	8108.4	8204.3	8583.1	9022.6	9097.8	8386.5	7504.2	6994.3	6989.5	7336.4	7347.6
47.5°	8811.6	8870.8	9246.4	9725.9	10029.6	9507.0	8468.0	7921.4	7870.2	8186.7	8095.6
50°	9459.0	9551.7	9836.2	10360.4	11116.5	10819.2	9735.5	9123.4	9003.5	9299.1	9145.7
52.5°	9730.7	9828.2	10068.0	10718.5	12048.3	12516.6	11345.0	10557.0	10357.2	10584.2	10528.3
55°	9259.2	9385.4	9609.2	10400.4	12457.5	14474.5	13515.5	12214.5	12069.1	11971.6	11987.6
57.5°	7991.7	8111.6	8413.6	9286.4	11968.4	15895.4	16614.7	14345.1	14033.4	13584.3	13661.0
60°	6083.3	6158.4	6315.1	7282.1	10518.7	16264.7	20134.3	17038.3	16840.1	15190.6	15244.9
62.5°	4320.3	4405.0	4513.7	4996.4	7700.8	15224.2	22889.8	20799.2	20091.2	16854.5	16801.8
65°	3508.4	3450.8	3581.9	3807.3	4518.5	11798.9	23510.0	26019.4	25044.4	19045.8	18313.7
67.5°	2885.0	2824.3	2953.7	3354.9	3436.4	6848.9	21275.5	29407.8	29212.9	21428.9	19849.8
69°	2554.1	2522.2	2635.7	3092.8	3298.9	4863.8	18534.3	29879.4	29925.7	22833.8	20086.3
70°	2301.6	2314.4	2424.7	2960.1	3236.6	4010.2	15841.1	29228.8	29622.0	23535.6	19830.6
72.5°	1694.3	1721.4	1874.8	2451.9	3177.5	3402.8	9427.0	25530.3	26225.6	23577.1	18141.2
75°	1184.4	1171.6	1307.5	1846.1	3001.7	3372.5	5536.7	19744.3	20532.3	20378.8	15243.4
77.5°	775.2	796.0	904.7	1304.2	2525.4	3346.9	3609.1	14007.9	14519.3	13629.1	9016.2
80°	546.6	545.0	605.8	890.3	1873.2	3215.9	2955.4	8829.3	8699.8	5356.0	2674.0
82.5°	313.3	335.7	406.0	626.6	1253.1	2830.6	2718.8	4222.8	3855.2	1526.4	903.0
85°	174.2	182.2	241.3	378.8	732.0	2132.2	2373.5	1921.2	1812.5	637.8	388.4
87.5°	55.9	60.8	100.7	191.8	332.5	1006.9	1344.2	887.1	818.3	230.1	156.6
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°	6665.1	6665.1	6665.1	6665.1	6665.1	6665.1	6665.1	6665.1	6665.1	6665.1	6665.1
2.5°	6674.7	6693.9	6642.7	6593.2	6548.4	6486.1	6430.2	6383.8	6351.8	6347.0	6331.0
5°	6697.1	6698.6	6601.2	6470.1	6342.2	6201.6	6056.1	5952.2	5854.7	5800.4	5773.2
7.5°	6713.1	6698.6	6522.9	6310.3	6064.1	5808.4	5552.6	5348.0	5189.8	5127.5	5151.4
10°	6706.6	6661.8	6404.5	6064.1	5706.0	5324.1	4956.5	4668.7	4405.0	4269.2	4272.4
12.5°	6671.5	6597.9	6228.8	5787.6	5261.8	4750.2	4187.6	3799.3	3494.0	3313.3	3257.4
15°	6641.1	6513.2	6022.5	5411.9	4758.3	4027.8	3342.2	2862.6	2606.9	2464.6	2463.0
17.5°	6609.1	6431.7	5797.2	5014.0	4179.7	3239.8	2520.6	2154.6	2034.7	2049.0	2025.1
20°	6575.6	6335.8	5562.2	4571.2	3474.8	2416.7	1887.7	1739.0	1772.6	1838.1	1847.6
22.5°	6537.2	6233.5	5309.7	4083.7	2733.1	1818.9	1531.2	1508.8	1595.1	1697.5	1711.8
25°	6478.1	6105.7	4991.6	3573.9	2108.2	1465.7	1341.0	1357.0	1441.7	1528.0	1537.6
27.5°	6394.9	5947.4	4670.4	2937.7	1583.9	1257.9	1225.9	1246.7	1288.3	1341.0	1353.8
30°	6283.1	5768.4	4301.1	2387.9	1269.1	1154.0	1141.2	1152.4	1176.4	1198.8	1205.1
32.5°	6171.2	5595.8	3928.7	1828.5	1131.6	1085.2	1072.5	1072.5	1072.5	1075.7	1077.3
35°	6067.3	5432.8	3529.1	1424.1	1059.7	1030.9	1013.4	994.2	991.0	979.8	979.8
37.5°	6009.8	5284.1	3104.0	1192.4	1006.9	986.2	962.2	930.2	912.7	914.2	911.0
40°	6021.0	5186.6	2717.2	1061.3	963.8	941.4	904.7	867.9	856.7	856.7	853.5
42.5°	6147.2	5154.6	2346.3	992.5	922.2	896.7	850.3	816.7	810.3	808.8	812.0
45°	6438.1	5232.9	2013.9	947.8	887.1	848.7	802.3	772.0	765.6	765.6	764.0
47.5°	7005.5	5487.1	1775.8	919.0	861.5	812.0	764.0	733.7	722.5	719.3	719.3
50°	7887.8	6038.5	1598.3	893.5	829.5	778.4	728.8	693.7	676.1	674.5	672.9
52.5°	9113.7	6898.5	1529.6	874.3	794.4	743.2	688.9	655.3	633.0	628.1	624.9
55°	10547.5	8098.8	1623.9	859.9	757.6	703.3	647.3	612.1	591.4	581.8	580.2
57.5°	12208.1	9540.5	1981.9	840.7	724.0	660.1	605.8	570.6	548.3	537.1	533.8
60°	13699.4	11022.1	2606.9	829.5	695.3	613.8	557.8	525.9	505.1	493.9	492.3
62.5°	15337.6	12435.1	3353.4	859.9	682.5	569.0	513.1	484.3	466.7	455.5	455.5
65°	17087.9	13849.6	3847.2	962.2	701.6	533.8	465.1	441.1	425.2	417.2	415.5
67.5°	18267.4	14338.7	3169.5	1067.7	749.6	495.5	418.7	399.6	390.0	382.0	382.0
69°	18139.5	13720.1	2338.4	1094.9	764.0	476.3	393.2	378.8	366.1	362.8	359.6
70°	17735.2	13015.3	1959.5	1077.3	752.9	458.8	377.2	359.6	348.4	345.2	343.7
72.5°	15796.4	11287.5	1459.3	936.6	641.0	398.0	334.0	318.1	308.5	303.6	303.6
75°	13123.9	9225.6	1139.6	744.8	501.9	335.7	286.1	273.3	265.4	262.1	260.5
77.5°	7355.6	5151.4	818.3	583.4	380.4	271.7	239.8	228.6	220.6	217.4	217.4
80°	2049.0	1472.0	481.1	385.2	258.9	206.2	190.2	182.2	171.0	163.0	167.8
82.5°	772.0	637.8	274.9	231.8	164.7	137.5	132.6	126.3	121.4	110.2	110.2
85°	375.6	310.1	175.8	123.1	91.1	72.0	68.7	65.5	62.3	54.3	55.9
87.5°	129.4	137.5	76.7	44.8	27.2	17.6	14.4	8.0	8.0	8.0	8.0
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)