

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: P648067

Luminaire Tested: **GALN-SA7A-835-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648067
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-835-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21263.9 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

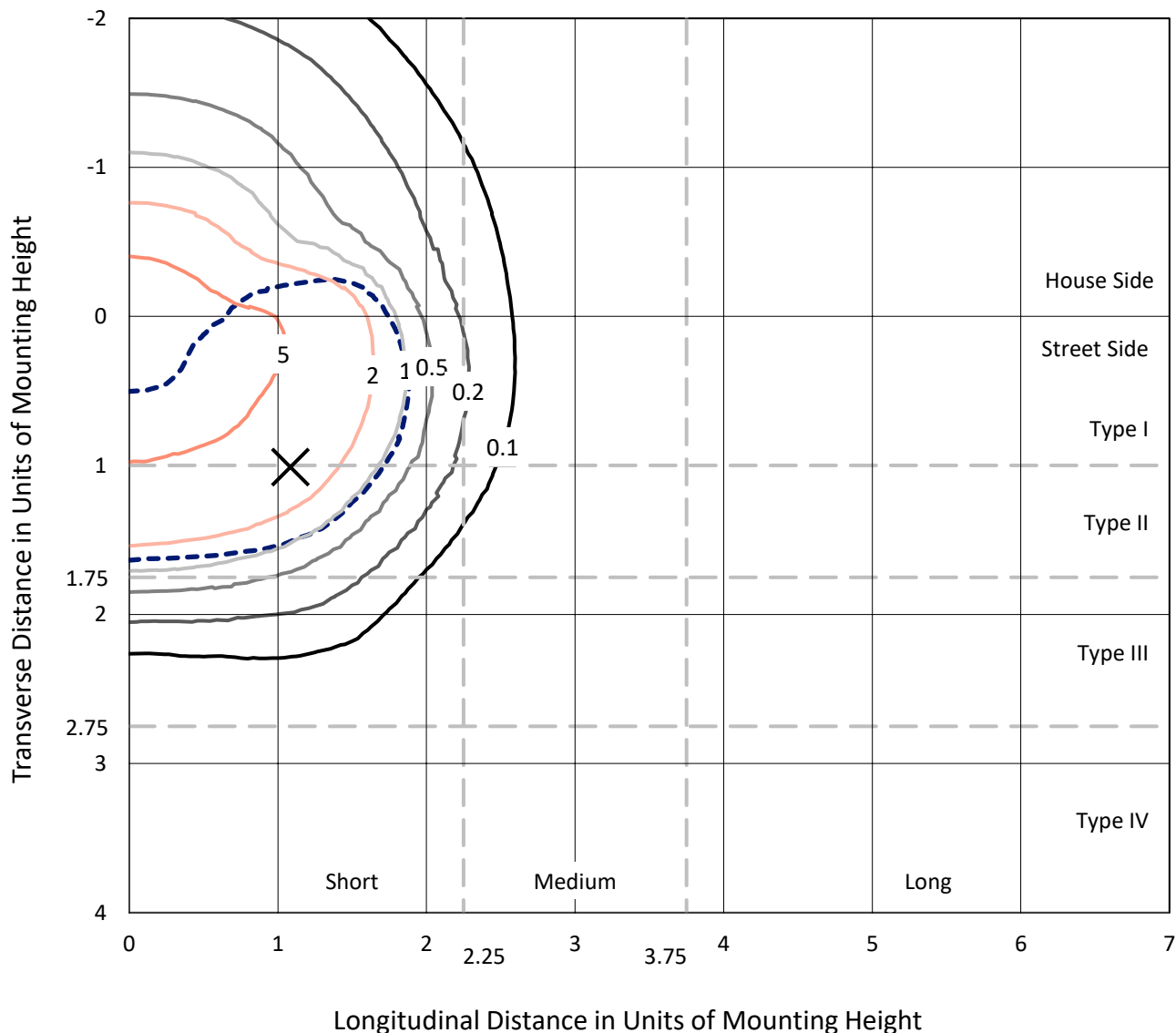
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

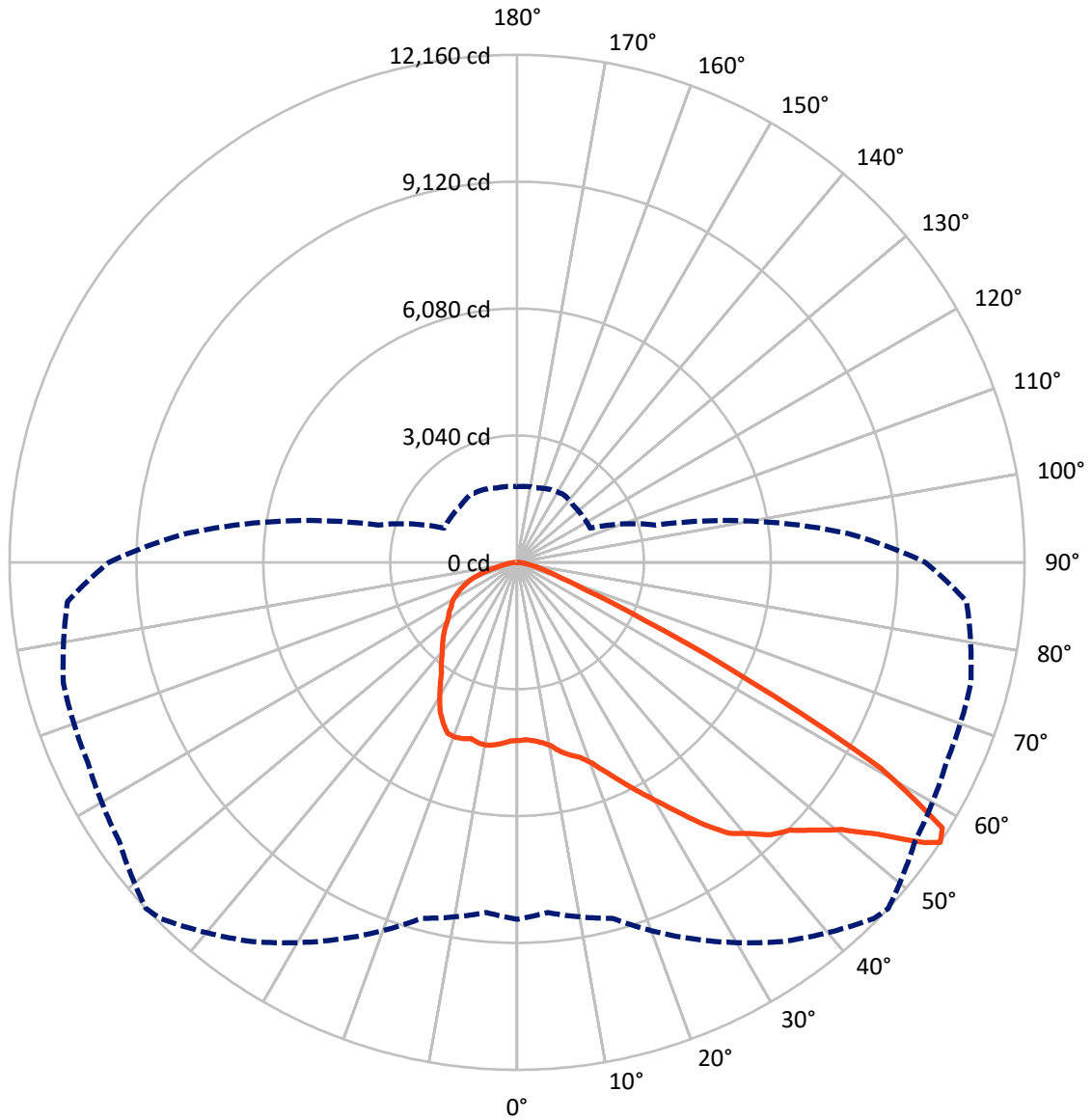
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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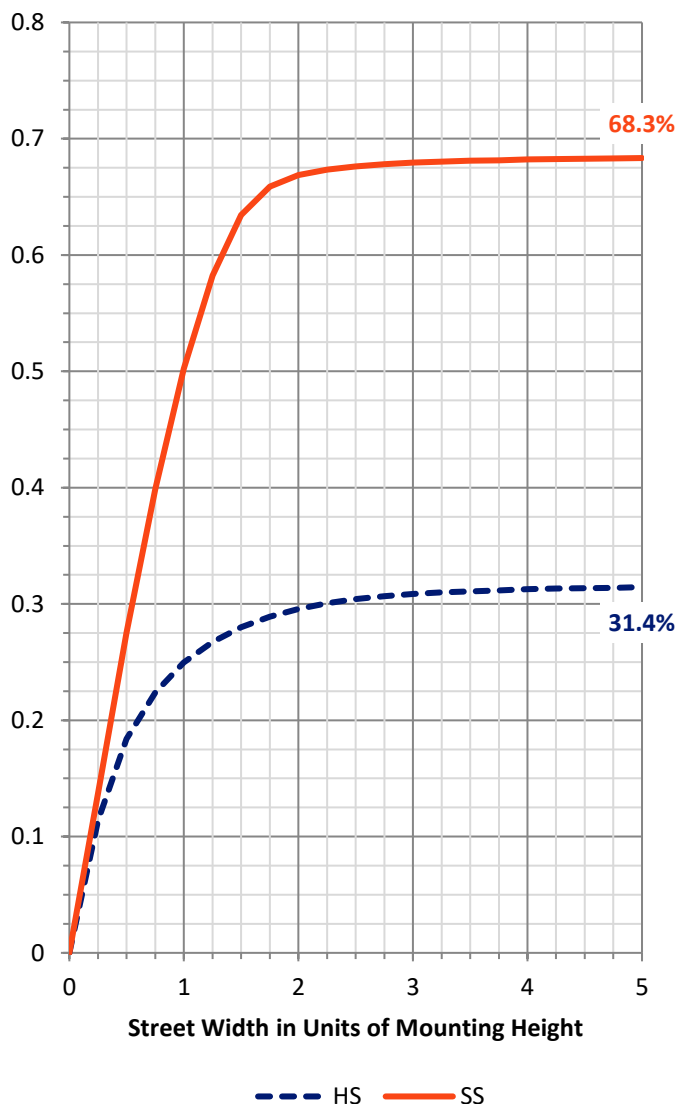
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6738.3	0.0	6738.3
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	14525.6	0.0	14525.6
	% Fixture	68.3	0.0	68.3
Total	Lumens	21263.9	0.0	21263.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.2	2.0
10°-20°	1312.8	6.2
20°-30°	2320.8	10.9
30°-40°	3485.7	16.4
40°-50°	4783.8	22.5
50°-60°	5699.3	26.8
60°-70°	2439.0	11.5
70°-80°	690.2	3.2
80°-90°	116.1	0.5
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°	21263.9	100.0
0°-180°	21263.9	100.0

Coefficient of Utilization

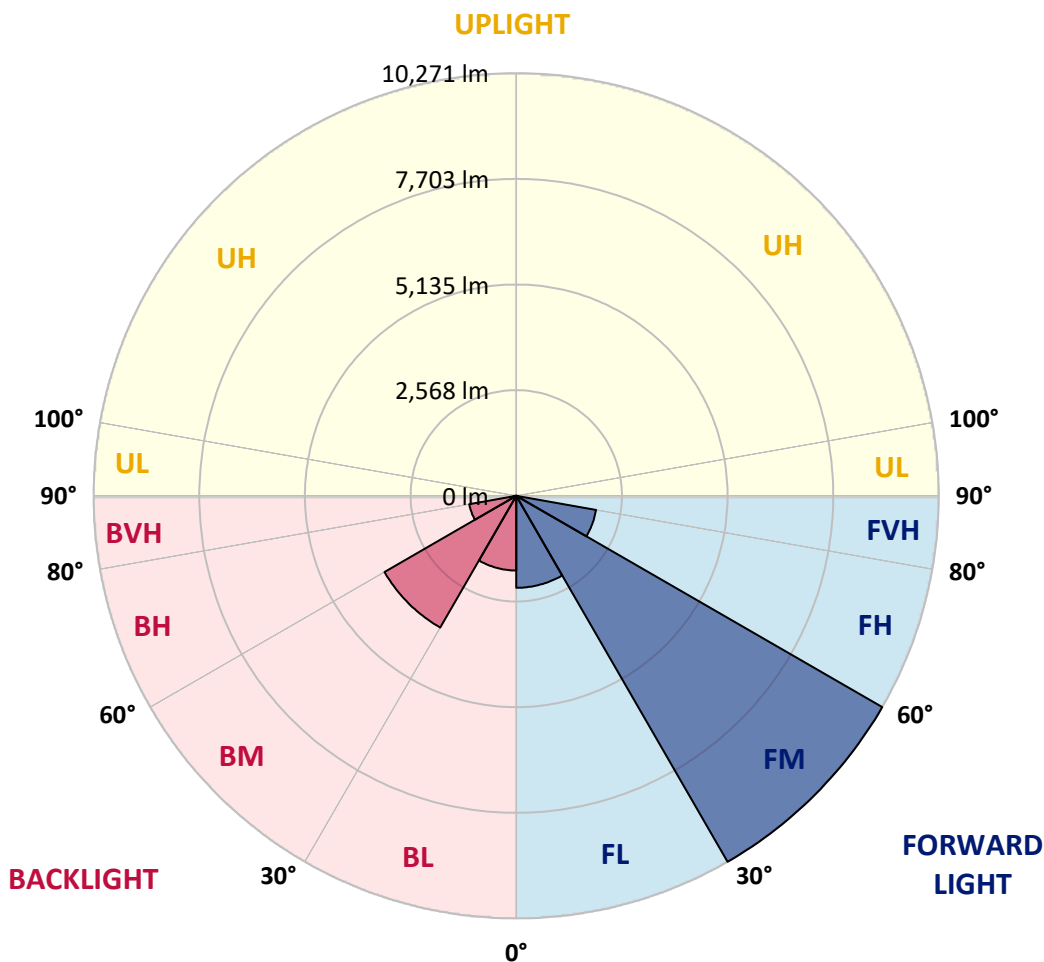


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2235.6	10.5			
FM (30°-60°)	10271.0	48.3			
FH (60°-80°)	1969.8	9.3			G2/5000
FVH (80°-90°)	49.3	0.2			G1/100
BL (0°-30°)	1814.2	8.5	B3/2500		
BM (30°-60°)	3697.9	17.4	B3/5000		
BH (60°-80°)	1159.3	5.5	B3/2500		G3/2500
BVH (80°-90°)	66.8	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-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4271.3	4271.3	4271.3	4271.3	4271.3	4271.3	4271.3	4271.3	4271.3	4271.3	4271.3
2.5°	4255.0	4246.8	4241.4	4284.8	4268.6	4271.3	4255.0	4271.3	4282.1	4257.7	4293.0
5°	4246.8	4271.3	4249.6	4263.1	4298.4	4287.6	4298.4	4330.9	4322.8	4314.6	4303.8
7.5°	4322.8	4325.5	4341.8	4347.2	4358.0	4347.2	4363.5	4393.3	4385.2	4339.1	4344.5
10°	4431.3	4436.7	4439.5	4469.3	4488.2	4491.0	4471.9	4444.9	4442.1	4504.5	4461.1
12.5°	4556.0	4542.5	4575.0	4585.9	4607.6	4632.0	4656.3	4599.4	4634.7	4637.4	4585.9
15°	4737.7	4751.3	4713.3	4713.3	4721.5	4724.2	4792.0	4764.9	4759.4	4729.6	4751.3
17.5°	5008.9	4916.7	4914.0	4876.1	4870.7	4892.3	4916.7	4938.4	5011.7	4952.0	4835.3
20°	5206.9	5228.6	5149.9	5103.8	5112.0	5160.8	5136.4	5234.0	5285.6	5187.9	5074.0
22.5°	5556.7	5483.5	5502.5	5399.4	5407.6	5459.1	5456.4	5556.7	5586.5	5432.0	5266.5
25°	5792.6	5773.7	5790.0	5708.6	5719.4	5760.1	5825.2	5990.7	5941.8	5770.9	5388.6
27.5°	6137.1	6099.1	6085.6	6055.7	6044.8	6153.4	6229.3	6405.6	6370.3	6120.8	5605.6
30°	6489.7	6465.2	6478.8	6356.7	6400.2	6630.7	6652.4	6893.7	6877.4	6438.1	5846.9
32.5°	6733.7	6747.3	6771.7	6703.9	6896.4	7080.8	7154.0	7427.9	7441.6	6983.2	6313.3
35°	7126.9	7080.8	7094.4	7173.1	7262.6	7598.8	7718.1	7899.8	8013.7	7555.4	6760.8
37.5°	7373.7	7422.5	7365.6	7490.3	7723.6	8127.6	8236.1	8423.2	8542.5	8119.5	7371.0
40°	7758.8	7680.1	7720.8	7810.3	8049.0	8575.1	8545.3	8737.8	8775.8	8599.5	7940.5
42.5°	8173.7	8135.8	8078.8	8282.2	8482.9	8865.3	8924.9	8835.5	9028.0	9068.7	8754.1
45°	8670.0	8716.1	8724.3	8729.7	8905.9	9239.6	9158.1	9079.5	9301.9	9597.5	9258.5
47.5°	9131.0	8984.6	9090.4	9236.8	9486.3	9489.0	9583.9	9396.8	9632.8	9895.8	9714.1
50°	9285.6	9215.1	9356.1	9632.8	10017.9	10058.5	10069.4	9803.6	9925.6	10134.4	9871.4
52.5°	9225.9	9201.6	9562.2	9990.7	10554.8	10760.9	10815.1	10487.0	10554.8	10459.9	10218.5
55°	8941.2	9014.4	9377.8	10251.0	11116.2	11753.5	11856.5	11441.6	11010.4	11083.6	10817.8
56°	8550.7	8423.2	8830.0	9955.5	11091.7	12076.2	12160.2	11642.3	11349.4	11254.5	10812.4
57.5°	7254.4	7089.0	7623.2	8957.4	10476.1	11954.1	12016.5	11726.4	11292.4	11099.9	10023.3
60°	4246.8	4328.2	5006.2	6177.8	8081.5	9800.9	10009.7	10221.2	9931.0	9068.7	7460.5
62.5°	2050.2	1998.7	2484.1	3541.7	4924.8	6256.4	6194.0	6787.9	7113.4	6443.5	4710.6
65°	1073.9	1068.5	1356.0	1933.6	2706.5	3286.9	3343.8	3663.8	4111.3	3319.4	2391.9
67.5°	789.2	810.9	954.6	1358.7	1741.1	1776.3	1768.2	1928.2	1971.6	1667.9	1469.8
70°	618.3	629.1	734.9	1033.2	1296.3	1160.7	1136.3	1155.3	1282.7	1337.0	1271.9
72.5°	447.5	458.3	547.8	696.9	810.9	791.8	808.1	913.9	1071.2	1128.1	1060.3
75°	298.3	306.5	355.2	425.8	480.0	518.0	547.8	669.9	816.3	848.9	816.3
77.5°	206.1	214.2	246.8	301.0	306.5	330.8	341.7	398.6	488.1	528.8	507.1
80°	116.6	116.6	132.9	154.6	189.8	222.4	227.8	273.9	314.6	341.7	347.1
82.5°	54.3	56.9	70.5	94.9	124.7	154.6	160.0	189.8	219.6	246.8	254.9
85°	27.1	29.8	40.7	56.9	76.0	92.2	89.5	92.2	97.6	92.2	94.9
87.5°	8.1	8.1	10.9	13.5	10.9	13.5	13.5	16.3	18.9	21.7	24.4
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°	4271.3	4271.3	4271.3	4271.3	4271.3	4271.3	4271.3	4271.3	4271.3	4271.3	4271.3
2.5°	4295.7	4303.8	4249.6	4301.1	4282.1	4279.4	4317.4	4312.0	4325.5	4320.1	4287.6
5°	4298.4	4279.4	4336.3	4284.8	4309.2	4360.8	4325.5	4406.9	4366.2	4393.3	4333.7
7.5°	4382.5	4387.9	4377.0	4398.7	4387.9	4412.3	4393.3	4412.3	4379.8	4382.5	4436.7
10°	4455.7	4439.5	4458.4	4431.3	4450.3	4442.1	4398.7	4385.2	4396.0	4382.5	4417.7
12.5°	4591.3	4561.4	4547.9	4515.3	4493.6	4412.3	4344.5	4306.5	4358.0	4366.2	4350.0
15°	4729.6	4732.3	4670.0	4596.7	4461.1	4339.1	4355.4	4368.9	4368.9	4390.6	4350.0
17.5°	4816.4	4816.4	4759.4	4613.0	4474.7	4404.1	4387.9	4344.5	4306.5	4301.1	4298.4
20°	4968.2	4922.2	4792.0	4610.3	4469.3	4436.7	4314.6	4211.6	4133.0	4105.8	4103.2
22.5°	5141.8	5025.2	4843.5	4615.7	4461.1	4415.0	4187.2	4032.6	3891.6	3831.9	3840.1
25°	5301.8	5114.7	4873.3	4591.3	4431.3	4208.9	3954.0	3739.8	3593.3	3544.5	3520.1
27.5°	5413.0	5209.6	4873.3	4613.0	4320.1	3978.4	3718.1	3444.1	3316.7	3284.1	3289.5
30°	5562.1	5328.9	4957.4	4566.8	4097.8	3680.1	3368.2	3189.2	3113.3	3086.2	3105.1
32.5°	5912.0	5640.8	5074.0	4455.7	3834.7	3381.8	3129.6	3029.2	2918.0	2863.8	2844.8
35°	6291.6	5936.4	5187.9	4268.6	3539.1	3110.5	2953.3	2861.1	2728.2	2668.5	2679.3
37.5°	6828.6	6316.1	5196.1	3959.4	3219.1	2958.7	2815.0	2671.2	2562.8	2470.6	2443.4
40°	7552.7	6834.0	5177.0	3634.0	2961.4	2779.7	2673.9	2495.0	2373.0	2307.8	2321.4
42.5°	8190.0	7441.6	5098.4	3265.2	2728.2	2657.7	2538.3	2362.1	2242.7	2174.9	2169.5
45°	8727.0	7889.0	4949.3	2950.6	2532.9	2522.1	2383.8	2248.1	2153.2	2090.9	2118.0
47.5°	9223.3	8249.7	4724.2	2636.0	2353.9	2375.6	2242.7	2158.7	2099.1	2042.1	2039.4
50°	9402.3	8244.2	4526.2	2375.6	2210.3	2199.4	2194.0	2104.5	2042.1	1993.3	2015.0
52.5°	9700.5	8336.4	4312.0	2196.6	2080.0	2082.8	2101.7	2036.7	1966.1	1936.3	1963.5
55°	10129.0	8350.0	3840.1	1987.8	1971.6	1990.5	1990.5	1947.2	1887.5	1863.1	1849.5
56°	9779.2	7946.0	3444.1	1933.6	1917.3	1917.3	1968.9	1920.1	1846.8	1827.8	1811.5
57.5°	9019.8	6961.5	2882.8	1868.6	1844.1	1882.1	1909.2	1857.7	1789.9	1762.8	1779.1
60°	6221.2	4710.6	2166.8	1727.5	1727.5	1789.9	1811.5	1735.6	1705.8	1703.1	1681.4
62.5°	3631.2	2744.5	1695.0	1600.1	1605.5	1657.0	1673.3	1629.9	1591.9	1638.0	1659.7
65°	1925.5	1638.0	1453.6	1464.4	1467.2	1507.8	1578.4	1575.6	1572.9	1586.4	1589.2
67.5°	1393.9	1361.4	1320.7	1309.9	1315.3	1345.1	1415.6	1469.8	1467.2	1434.6	1410.2
70°	1242.1	1196.0	1171.5	1174.3	1152.6	1187.8	1244.7	1280.0	1217.6	1179.7	1163.4
72.5°	1033.2	1019.7	1003.4	1006.2	962.7	954.6	889.5	889.5	873.2	862.4	881.3
75°	789.2	783.8	791.8	778.3	732.2	683.4	645.4	610.2	555.9	534.2	523.4
77.5°	499.0	515.3	534.2	504.4	485.5	450.1	412.2	376.9	333.6	309.1	309.1
80°	339.0	352.6	366.1	360.6	339.0	306.5	276.6	238.7	208.8	189.8	187.1
82.5°	257.6	268.5	287.4	265.8	244.1	217.0	192.5	165.4	138.3	116.6	116.6
85°	92.2	105.8	116.6	127.5	135.6	138.3	119.3	97.6	78.6	62.4	59.7
87.5°	24.4	27.1	29.8	27.1	27.1	27.1	29.8	27.1	24.4	18.9	18.9
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)