

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: P652475

Luminaire Tested: **GALN-SA6B-840-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652475
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-SA6B-840-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 800mA 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: 28314.8 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

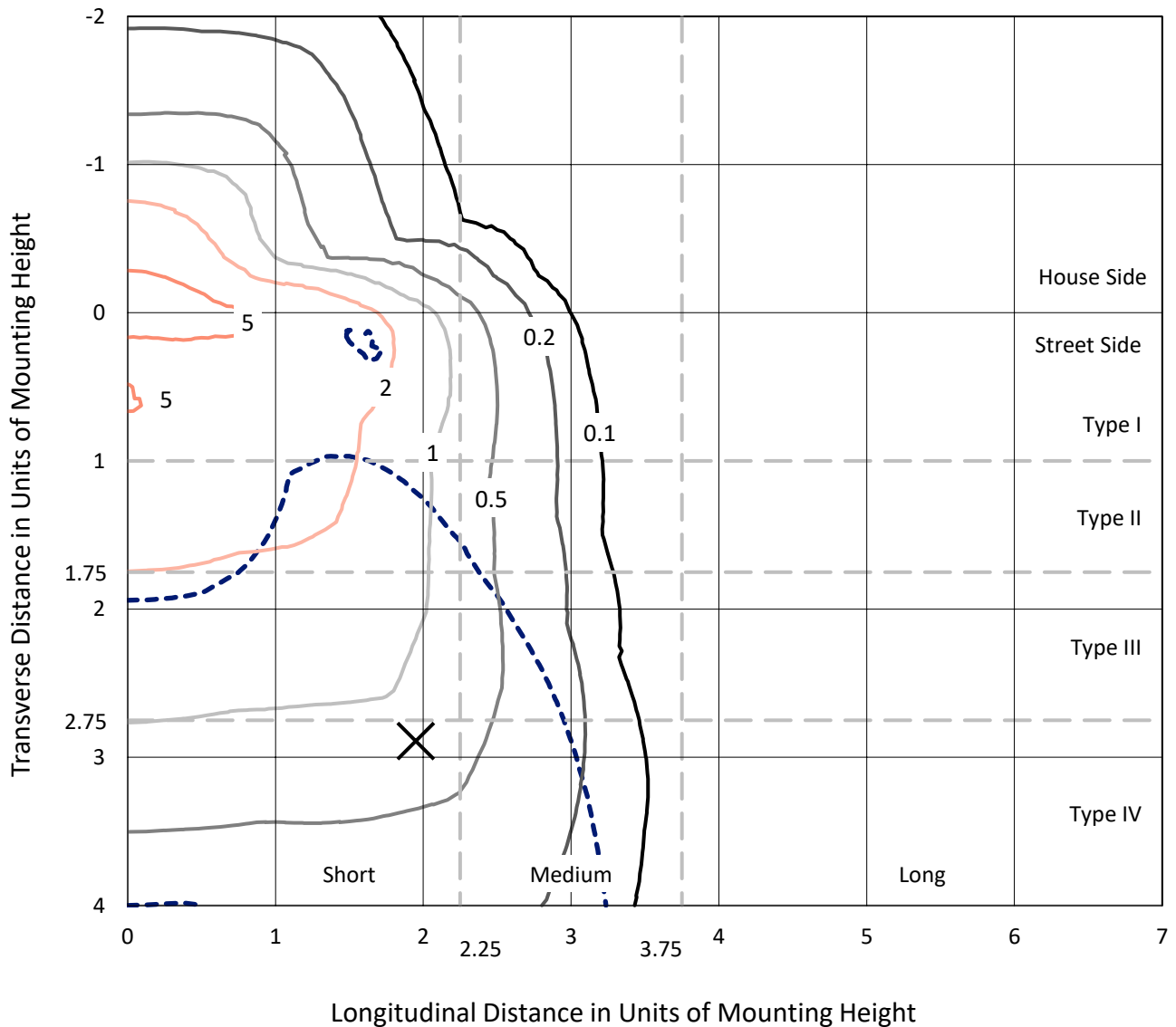
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652475
 CATALOG NUMBER: GALN-SA6B-840-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

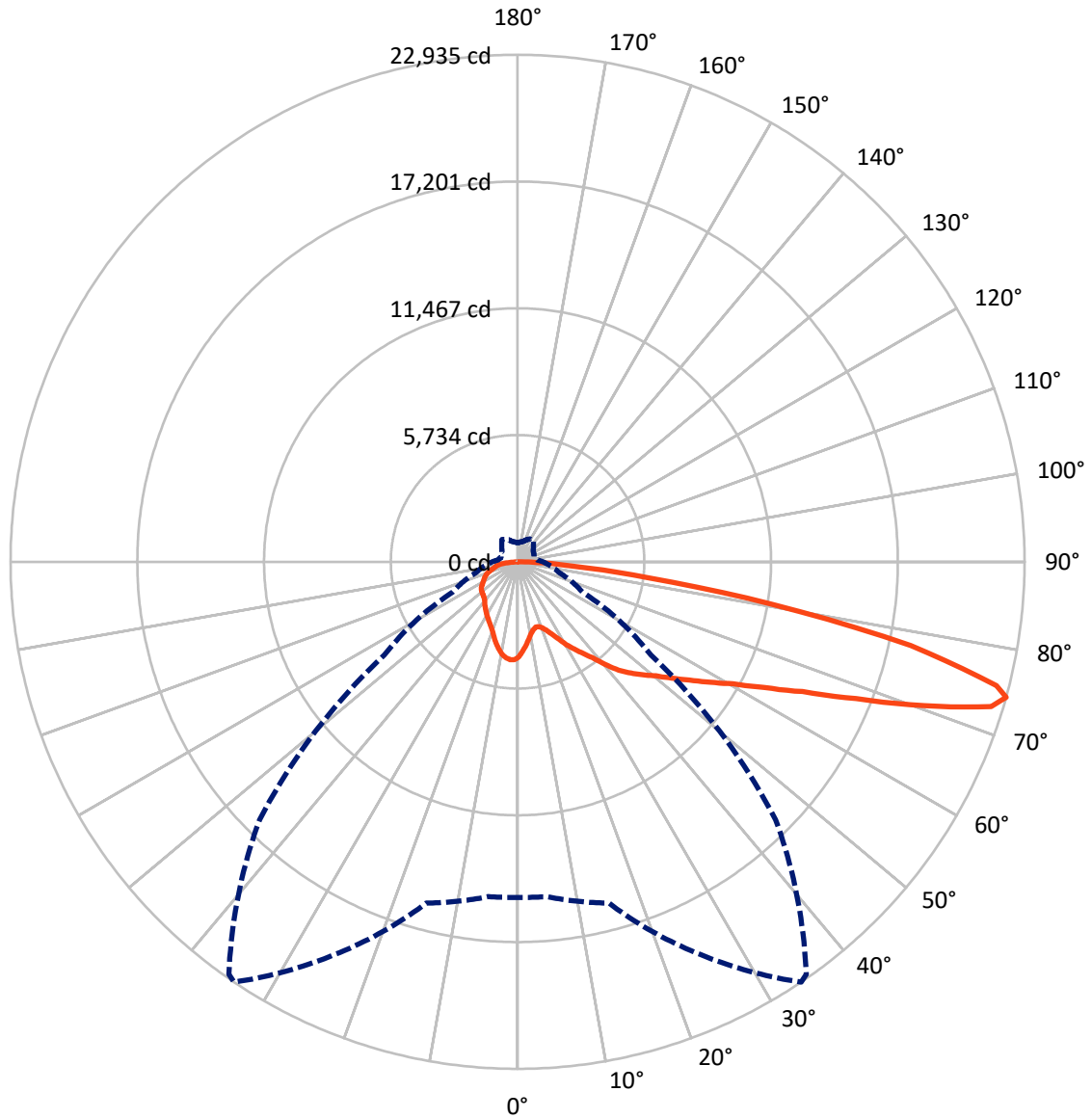
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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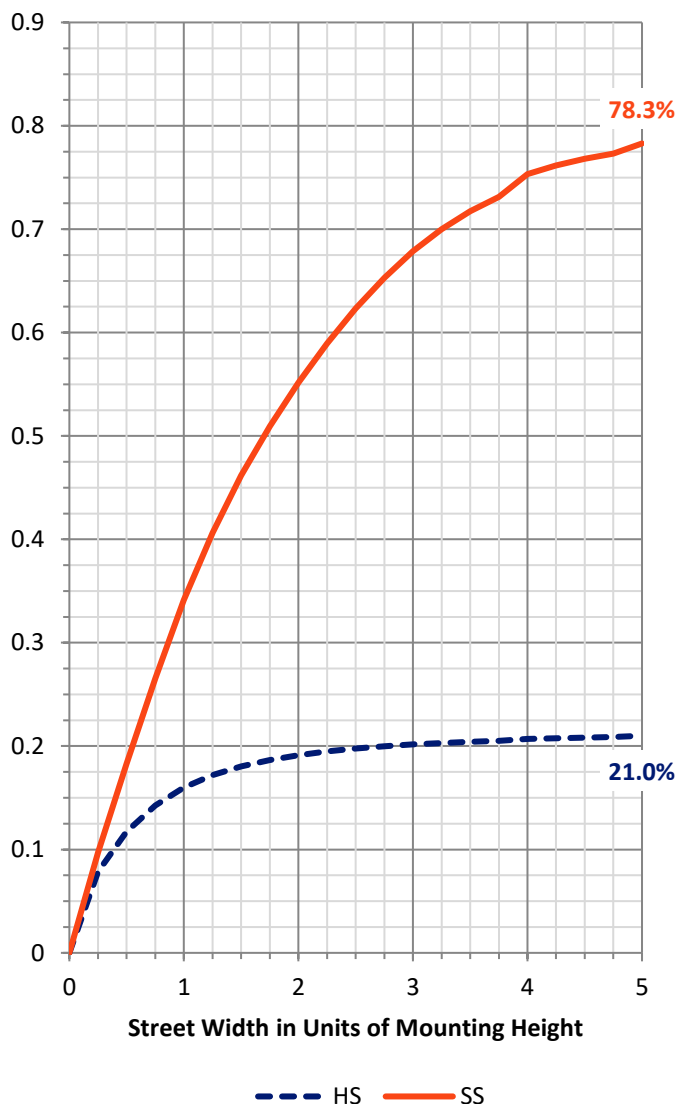
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6025.6	0.0	6025.6
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	22289.2	0.0	22289.2
	% Fixture	78.7	0.0	78.7
Total	Lumens	28314.8	0.0	28314.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.2	1.4
10°-20°	1076.3	3.8
20°-30°	1774.5	6.3
30°-40°	2658.0	9.4
40°-50°	3864.0	13.6
50°-60°	5397.1	19.1
60°-70°	6756.9	23.9
70°-80°	5587.4	19.7
80°-90°	807.3	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°	28314.8	100.0
0°-180°	28314.8	100.0

Coefficient of Utilization

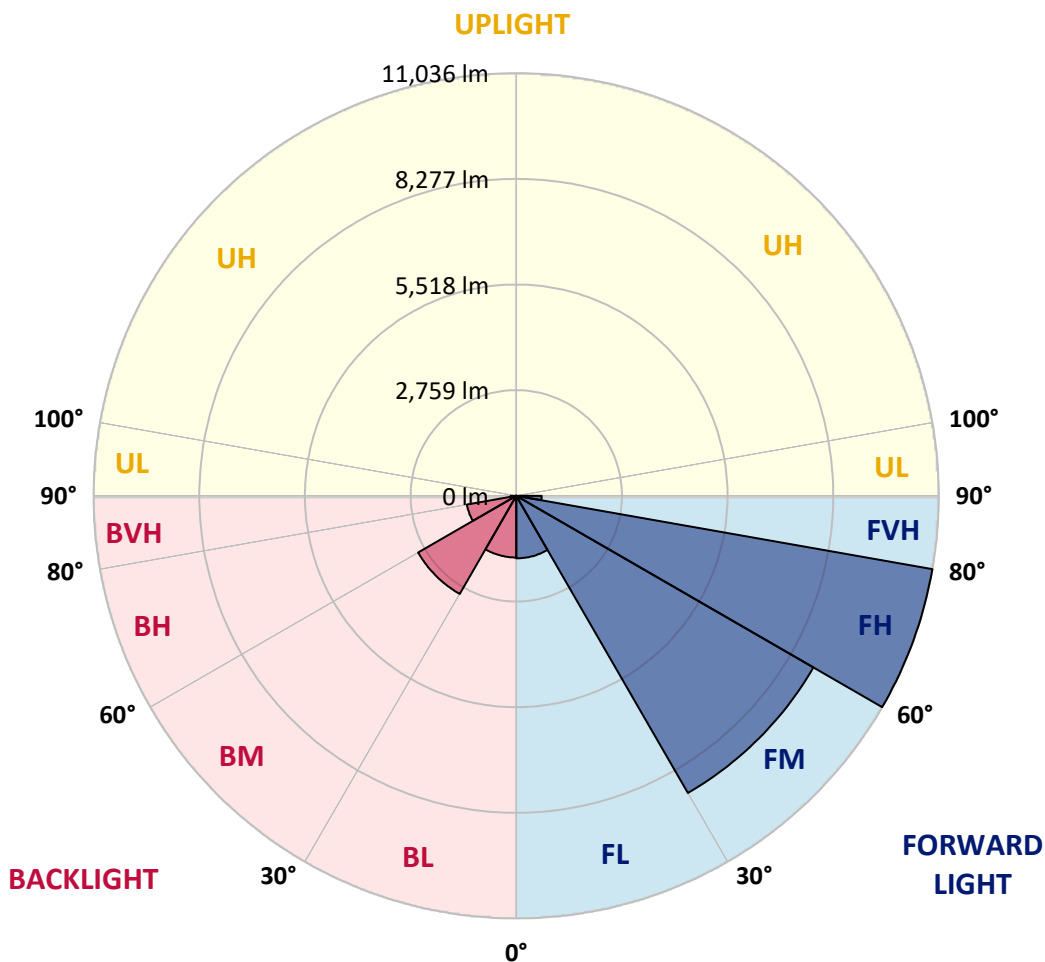


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1632.2	5.8			
FM (30°-60°)	8960.0	31.6			
FH (60°-80°)	11035.6	39.0			G4/12000
FVH (80°-90°)	661.4	2.3			G4/750
BL (0°-30°)	1611.7	5.7	B3/2500		
BM (30°-60°)	2959.2	10.5	B3/5000		
BH (60°-80°)	1308.7	4.6	B3/2500		G3/2500
BVH (80°-90°)	145.9	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°	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1
2.5°	3995.3	4015.7	4026.6	4065.8	4075.2	4087.8	4120.7	4164.7	4221.1	4271.4	4315.3
5°	3662.7	3694.1	3712.9	3747.4	3814.9	3821.2	3909.0	4009.4	4123.9	4230.6	4318.4
7.5°	3347.4	3381.9	3397.6	3460.4	3549.8	3563.9	3692.5	3850.9	4042.4	4203.9	4338.8
10°	3110.6	3127.8	3162.3	3209.4	3316.1	3325.5	3493.3	3705.1	3953.0	4191.4	4373.3
12.5°	2981.9	2991.4	2999.2	3049.4	3154.5	3168.6	3344.3	3584.3	3882.3	4200.8	4429.8
15°	3000.8	3003.9	2969.4	2978.8	3063.5	3083.9	3258.0	3504.3	3838.4	4224.3	4514.5
17.5°	3159.2	3148.2	3063.5	3019.6	3079.2	3088.6	3240.8	3472.9	3818.0	4268.2	4602.3
20°	3408.6	3392.9	3247.0	3149.8	3184.3	3192.1	3297.2	3496.5	3838.4	4340.4	4738.8
22.5°	3719.2	3712.9	3491.7	3374.1	3372.5	3372.5	3427.4	3581.1	3899.5	4439.2	4881.5
25°	4153.7	4120.7	3832.1	3680.0	3637.7	3634.5	3628.2	3720.8	3978.0	4544.3	5051.0
27.5°	4599.2	4542.7	4285.5	4051.8	3960.8	3949.8	3909.0	3918.4	4078.4	4663.5	5243.9
30°	4999.2	4963.1	4721.5	4462.7	4354.4	4329.4	4216.4	4164.7	4246.2	4878.4	5551.4
32.5°	5305.0	5283.1	5094.9	4859.6	4699.6	4694.9	4530.1	4487.8	4508.2	5138.8	5902.7
35°	5552.9	5560.8	5465.1	5261.1	5077.6	5051.0	4941.1	4887.8	4828.2	5515.3	6345.1
37.5°	5891.7	5909.0	5902.7	5727.0	5502.7	5509.0	5483.9	5396.0	5237.6	5935.6	6836.1
40°	6265.0	6277.6	6276.0	6208.6	6090.9	6097.2	6087.8	5987.4	5750.6	6470.6	7381.9
42.5°	6781.2	6721.5	6566.2	6633.6	6702.7	6732.5	6796.8	6701.2	6376.5	7041.5	7894.9
45°	7358.4	7245.5	6894.1	6925.5	7181.1	7237.6	7592.1	7460.3	7055.7	7697.2	8498.7
47.5°	7722.3	7611.0	7314.4	7308.2	7647.0	7701.9	8329.3	8280.7	7673.7	8404.6	9236.0
50°	8047.0	8031.3	7697.2	7777.2	8108.2	8189.7	9132.5	9087.0	8290.2	9239.1	10039.2
52.5°	8528.6	8401.5	8134.8	8299.6	8737.2	8843.9	9929.4	9796.1	8856.4	9976.4	10818.8
55°	8745.1	8715.2	8699.6	8842.3	9443.1	9520.0	10704.2	10398.4	9339.6	10600.7	11411.7
57.5°	9323.8	9269.0	9424.2	9521.5	10274.4	10392.1	11513.6	11027.4	9763.1	11096.4	11700.3
60°	10073.7	10043.9	10186.6	10362.3	11203.0	11381.9	12436.0	11563.8	10103.4	11345.8	11541.9
62.5°	11193.6	11190.5	11163.9	11540.3	12519.1	12683.9	13494.8	12086.2	10156.8	11159.1	10723.1
65°	12799.9	12743.4	12511.3	12922.3	14156.8	14349.7	14597.6	12377.9	9835.2	10200.7	9029.0
67.5°	14479.9	14476.8	14288.5	14821.9	16508.2	16707.3	15976.4	12313.7	8942.7	8263.5	6412.5
70°	15872.9	15805.4	16045.4	17466.6	19512.0	19742.6	17182.6	11556.0	7123.1	5457.2	3810.2
72.5°	16206.9	16210.1	16708.9	19505.7	22396.7	22432.7	17617.1	9366.2	4767.0	3010.2	1905.9
74°	15177.9	15204.6	15977.9	19607.7	22934.7	22771.6	16506.6	7361.5	3223.5	1965.5	1374.1
75°	13854.0	13686.2	14804.6	18928.5	22376.3	22200.6	15206.2	5907.4	2459.6	1570.1	1203.1
77.5°	7407.0	7578.0	9303.5	14125.4	18178.7	17976.4	10310.5	2832.9	1328.6	1093.3	865.9
80°	2636.9	2908.2	4087.8	7391.3	11654.8	11717.6	4920.8	1298.8	934.9	806.3	611.7
82.5°	1076.1	1105.9	1755.3	3280.0	5918.4	5974.9	2009.4	771.8	668.3	555.3	365.5
85°	420.4	432.9	776.5	1474.5	2525.4	2690.2	694.9	407.8	411.0	318.4	186.7
87.5°	141.2	160.0	318.4	491.0	858.1	840.7	202.3	120.8	147.4	138.0	58.0
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°	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1	4323.1
2.5°	4337.2	4367.1	4387.4	4409.4	4429.8	4436.0	4431.3	4445.4	4447.0	4448.6	4450.2
5°	4362.4	4403.1	4442.3	4464.3	4473.7	4465.9	4439.2	4425.1	4412.6	4403.1	4406.3
7.5°	4396.8	4454.9	4490.9	4500.4	4475.3	4439.2	4373.3	4321.6	4288.6	4266.6	4265.0
10°	4450.2	4506.7	4536.4	4509.8	4440.7	4352.9	4249.4	4152.1	4078.4	4056.5	4054.9
12.5°	4517.6	4581.9	4580.3	4502.0	4381.1	4224.3	4056.5	3943.5	3843.1	3792.9	3813.3
15°	4605.5	4654.1	4608.6	4467.4	4276.1	4061.2	3854.1	3700.4	3587.5	3534.1	3537.2
17.5°	4707.4	4749.8	4628.9	4406.3	4128.6	3852.5	3612.5	3466.6	3377.2	3338.0	3334.9
20°	4834.5	4847.0	4628.9	4299.6	3938.8	3609.4	3380.4	3278.4	3228.2	3207.8	3214.1
22.5°	4971.0	4945.8	4603.9	4149.0	3689.4	3355.3	3201.5	3156.0	3131.0	3127.8	3131.0
25°	5124.6	5054.1	4552.2	3945.0	3429.0	3135.7	3046.3	3054.1	3058.8	3058.8	3069.8
27.5°	5312.9	5171.7	4465.9	3687.8	3124.7	2931.7	2906.7	2961.6	2986.6	2991.4	2999.2
30°	5560.8	5300.3	4323.1	3366.3	2865.9	2748.2	2792.1	2865.9	2894.1	2911.4	2908.2
32.5°	5855.6	5441.5	4130.2	3044.7	2657.2	2619.6	2673.0	2748.2	2779.6	2789.0	2776.5
35°	6202.3	5601.6	3876.1	2743.5	2475.3	2497.3	2560.0	2583.6	2611.7	2611.7	2618.0
37.5°	6575.6	5730.2	3565.5	2467.4	2334.1	2414.1	2459.6	2437.6	2425.1	2409.4	2417.2
40°	6955.2	5825.9	3162.3	2194.5	2192.9	2327.8	2340.3	2277.6	2227.5	2211.7	2203.9
42.5°	7286.3	5885.5	2798.4	1982.7	2059.6	2243.1	2252.5	2152.1	2072.1	2025.0	2009.4
45°	7676.8	5954.4	2442.3	1807.1	1935.6	2175.7	2199.2	2064.3	1946.7	1847.8	1822.7
47.5°	8211.7	6111.3	2161.5	1670.6	1846.2	2133.3	2166.2	1992.2	1836.8	1708.2	1687.8
50°	8815.6	6326.3	1943.6	1578.1	1777.2	2095.7	2136.5	1918.4	1734.9	1592.2	1576.5
52.5°	9369.3	6442.3	1755.3	1494.9	1709.8	2026.6	2097.2	1865.1	1634.5	1476.0	1461.9
55°	9672.1	6254.1	1570.1	1413.3	1617.2	1937.2	2042.4	1791.3	1537.3	1414.9	1394.5
57.5°	9712.9	5865.0	1402.4	1325.5	1520.0	1827.4	1940.4	1701.9	1474.5	1372.5	1355.3
60°	9397.6	5284.7	1272.2	1253.3	1421.2	1703.5	1825.9	1623.6	1410.2	1325.5	1308.3
62.5°	8613.3	4654.1	1181.2	1187.4	1320.8	1573.3	1741.2	1548.2	1349.0	1273.7	1258.1
65°	7264.3	3841.5	1093.3	1120.0	1231.4	1471.3	1664.3	1485.5	1287.8	1234.5	1220.4
67.5°	5046.3	2773.3	1021.1	1049.4	1146.6	1367.8	1574.9	1418.0	1218.8	1190.6	1168.7
70°	2793.7	1706.6	936.5	969.4	1058.8	1251.7	1474.5	1316.1	1118.4	1105.9	1074.5
72.5°	1468.2	1087.1	840.7	876.8	939.6	1102.7	1320.8	1204.7	1019.6	966.3	925.5
74°	1146.6	891.0	776.5	814.1	856.5	1014.9	1229.8	1124.7	949.0	886.2	854.9
75°	999.2	793.7	721.6	770.2	807.9	955.3	1159.2	1068.2	909.8	850.2	822.0
77.5°	705.9	594.5	589.8	647.8	668.3	837.6	1044.7	972.5	811.0	748.2	721.6
80°	495.7	445.5	467.4	503.5	531.8	740.4	969.4	840.7	665.1	591.4	582.0
82.5°	323.1	291.7	334.1	367.1	376.4	545.9	782.7	638.4	484.7	393.8	365.5
85°	149.0	145.9	191.4	186.7	185.1	266.7	464.3	373.3	279.2	208.7	196.0
87.5°	37.7	36.1	47.1	39.2	47.1	40.8	42.4	11.0	1.6	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)