

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: P455813

Luminaire Tested: **GALN-SA7A-730-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455813
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-SA7A-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA 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: 28945 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

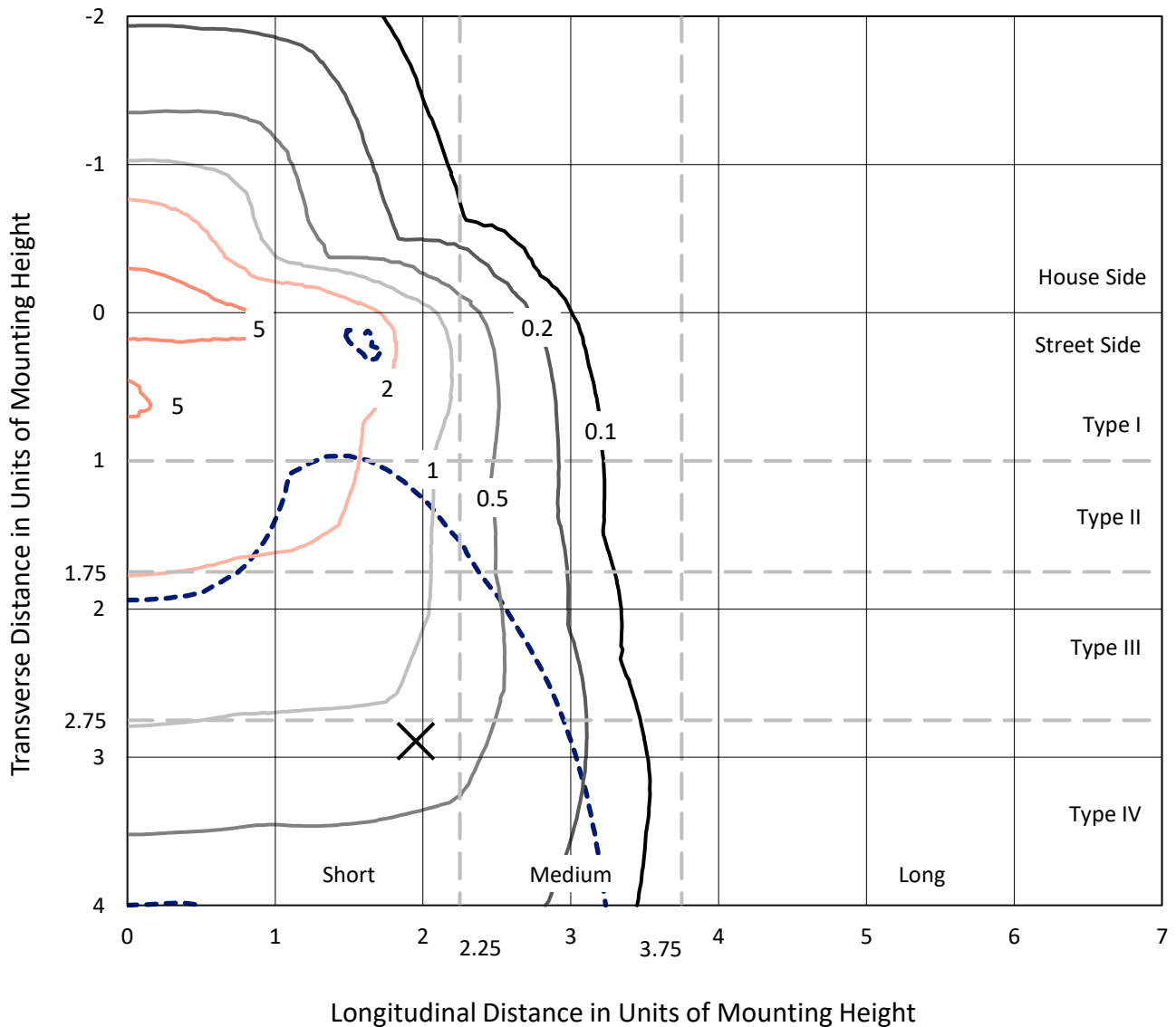
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455813
 CATALOG NUMBER: GALN-SA7A-730-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

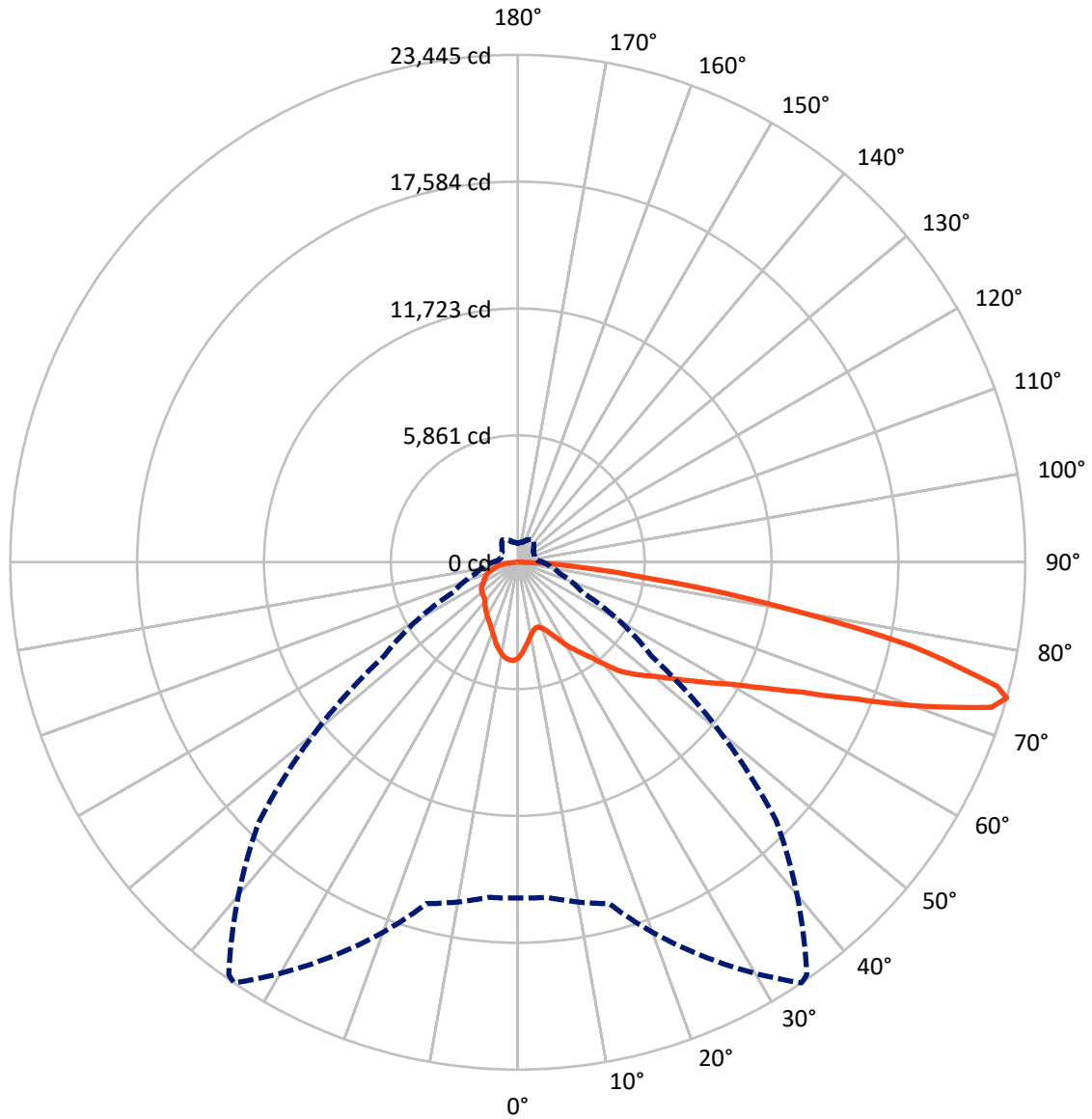
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P455813
CATALOG NUMBER: GALN-SA7A-730-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

REPORT NUMBER: P455813

CATALOG NUMBER: GALN-SA7A-730-U-T4FT

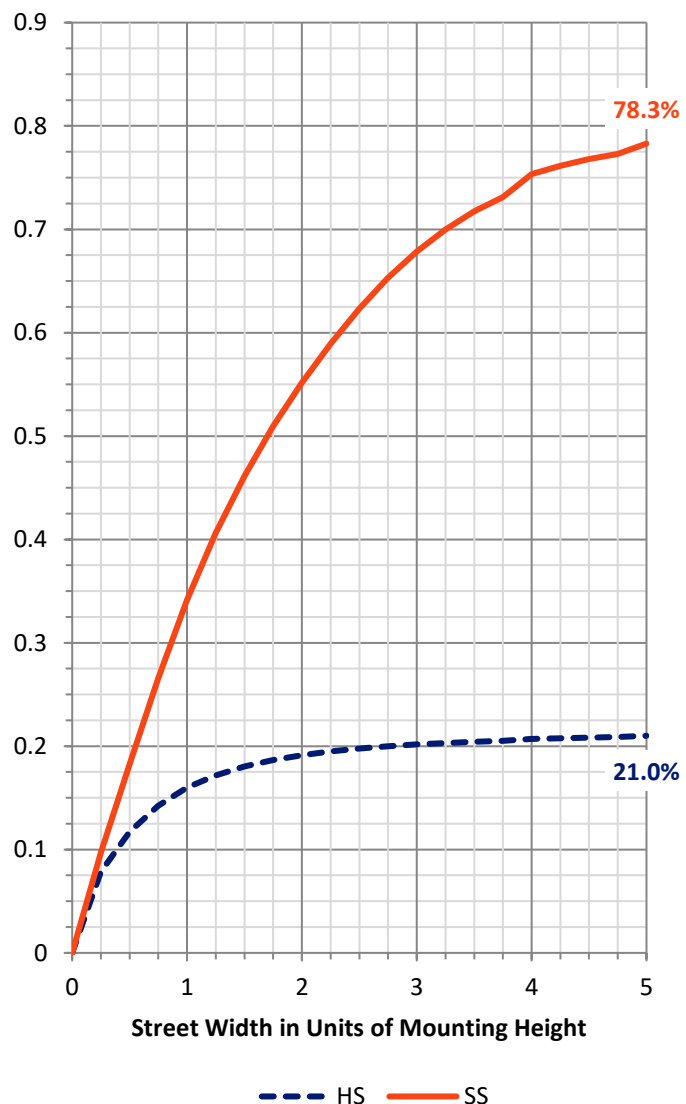
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6159.7	0.0	6159.7
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	22785.3	0.0	22785.3
	% Fixture	78.7	0.0	78.7
Total	Lumens	28945.0	0.0	28945.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.9	1.4
10°-20°	1100.2	3.8
20°-30°	1814.0	6.3
30°-40°	2717.2	9.4
40°-50°	3950.0	13.6
50°-60°	5517.2	19.1
60°-70°	6907.3	23.9
70°-80°	5711.8	19.7
80°-90°	825.3	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°	28945.0	100.0
0°-180°	28945.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455813

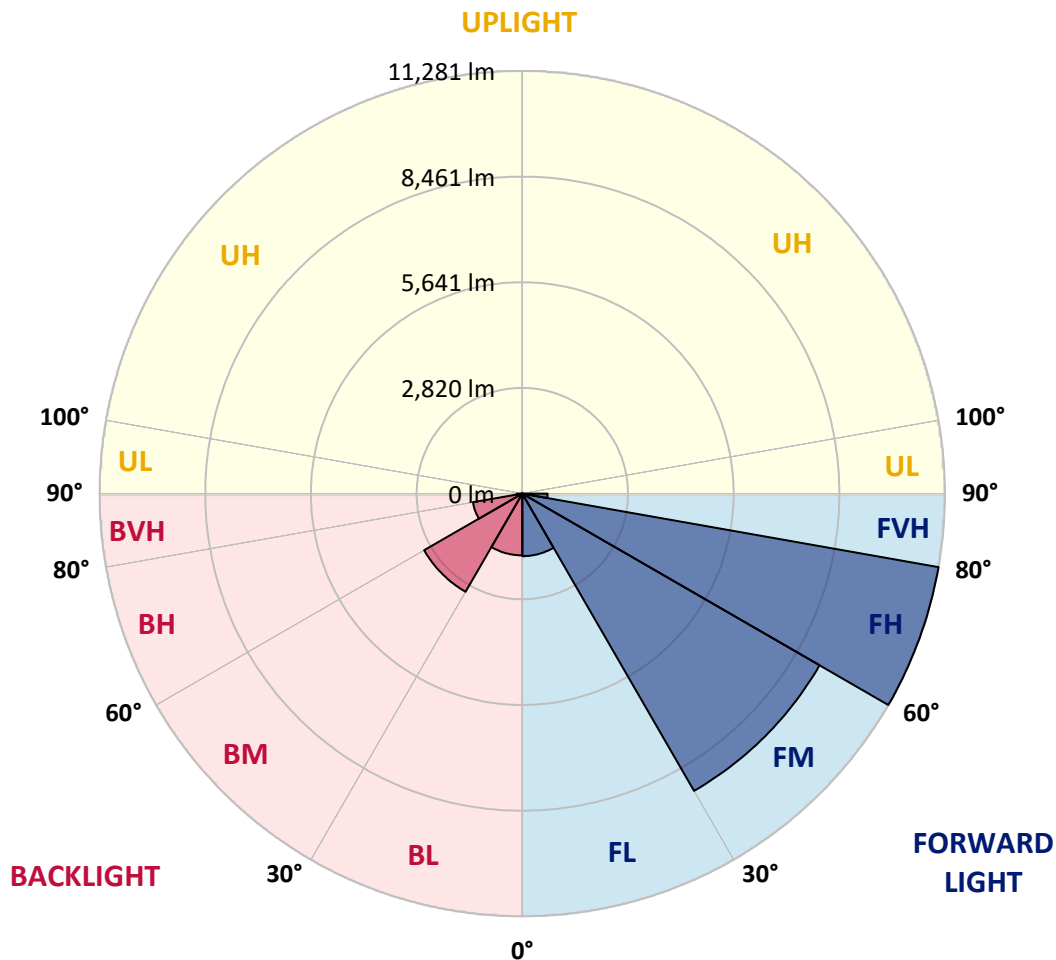
CATALOG NUMBER: GALN-SA7A-730-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1668.5	5.8			
FM (30°-60°)	9159.4	31.6			
FH (60°-80°)	11281.2	39.0			G4/12000
FVH (80°-90°)	676.1	2.3			G4/750
BL (0°-30°)	1647.6	5.7	B3/2500		
BM (30°-60°)	3025.1	10.5	B3/5000		
BH (60°-80°)	1337.8	4.6	B3/2500		G3/2500
BVH (80°-90°)	149.2	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





REPORT NUMBER: P455813

CATALOG NUMBER: GALN-SA7A-730-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4419.3	4419.3	4419.3	4419.3	4419.3	4419.3	4419.3	4419.3	4419.3	4419.3	4419.3
2.5°	4084.2	4105.0	4116.3	4156.4	4166.0	4178.8	4212.5	4257.4	4315.1	4366.4	4411.3
5°	3744.2	3776.3	3795.6	3830.8	3899.8	3906.2	3996.0	4098.6	4215.7	4324.7	4414.5
7.5°	3421.9	3457.2	3473.2	3537.4	3628.8	3643.2	3774.7	3936.7	4132.3	4297.5	4435.4
10°	3179.8	3197.4	3232.7	3280.8	3389.9	3399.5	3571.1	3787.5	4040.9	4284.6	4470.6
12.5°	3048.3	3057.9	3065.9	3117.3	3224.7	3239.1	3418.7	3664.1	3968.7	4294.3	4528.4
15°	3067.6	3070.8	3035.5	3045.1	3131.7	3152.5	3330.5	3582.3	3923.8	4318.3	4615.0
17.5°	3229.5	3218.3	3131.7	3086.8	3147.7	3157.4	3312.9	3550.2	3903.0	4363.2	4704.8
20°	3484.5	3468.4	3319.3	3219.9	3255.2	3263.2	3370.6	3574.3	3923.8	4437.0	4844.3
22.5°	3802.0	3795.6	3569.5	3449.2	3447.6	3447.6	3503.7	3660.9	3986.4	4538.0	4990.2
25°	4246.1	4212.5	3917.4	3761.9	3718.6	3715.4	3709.0	3803.6	4066.6	4645.4	5163.4
27.5°	4701.6	4643.8	4380.8	4141.9	4048.9	4037.7	3996.0	4005.6	4169.2	4767.3	5360.6
30°	5110.5	5073.6	4826.6	4562.0	4451.4	4425.7	4310.3	4257.4	4340.8	4987.0	5674.9
32.5°	5423.1	5400.7	5208.3	4967.7	4804.2	4799.4	4631.0	4587.7	4608.5	5253.2	6034.1
35°	5676.5	5684.5	5586.7	5378.2	5190.6	5163.4	5051.1	4996.6	4935.7	5638.0	6486.3
37.5°	6022.9	6040.5	6034.1	5854.5	5625.2	5631.6	5605.9	5516.1	5354.2	6067.8	6988.2
40°	6404.5	6417.3	6415.7	6346.8	6226.5	6232.9	6223.3	6120.7	5878.5	6614.6	7546.2
42.5°	6932.1	6871.1	6712.4	6781.3	6851.9	6882.4	6948.1	6850.3	6518.3	7198.2	8070.6
45°	7522.2	7406.7	7047.5	7079.6	7341.0	7398.7	7761.1	7626.4	7212.7	7868.5	8687.9
47.5°	7894.2	7780.3	7477.3	7470.8	7817.2	7873.3	8514.7	8465.0	7844.5	8591.7	9441.6
50°	8226.1	8210.1	7868.5	7950.3	8288.6	8372.0	9335.8	9289.3	8474.7	9444.8	10262.6
52.5°	8718.4	8588.5	8315.9	8484.3	8931.7	9040.7	10150.3	10014.0	9053.5	10198.5	11059.5
55°	8939.7	8909.2	8893.2	9039.1	9653.3	9731.8	10942.5	10629.8	9547.4	10836.7	11665.7
57.5°	9531.4	9475.3	9634.0	9733.4	10503.1	10623.4	11769.9	11272.8	9980.4	11343.4	11960.7
60°	10297.9	10267.4	10413.3	10592.9	11452.4	11635.2	12712.8	11821.2	10328.3	11598.3	11798.8
62.5°	11442.8	11439.6	11412.3	11797.2	12797.8	12966.1	13795.2	12355.2	10382.9	11407.5	10961.7
65°	13084.8	13027.1	12789.8	13209.9	14471.9	14669.1	14922.5	12653.5	10054.1	10427.8	9229.9
67.5°	14802.2	14799.0	14606.6	15151.8	16875.6	17079.2	16332.0	12587.7	9141.7	8447.4	6555.2
70°	16226.1	16157.2	16402.5	17855.3	19946.3	20182.0	17565.1	11813.2	7281.6	5578.7	3895.0
72.5°	16567.7	16570.9	17080.8	19939.9	22895.2	22932.1	18009.2	9574.7	4873.1	3077.2	1948.3
74°	15515.8	15543.0	16333.6	20044.1	23445.2	23278.4	16873.9	7525.4	3295.3	2009.2	1404.7
75°	14162.4	13990.8	15134.1	19349.8	22874.4	22694.8	15544.6	6038.9	2514.3	1605.1	1229.9
77.5°	7571.9	7746.7	9510.5	14439.8	18583.3	18376.5	10540.0	2896.0	1358.2	1117.7	885.1
80°	2695.5	2972.9	4178.8	7555.8	11914.2	11978.4	5030.3	1327.7	955.7	824.2	625.4
82.5°	1100.0	1130.5	1794.4	3353.0	6050.1	6107.8	2054.1	788.9	683.1	567.6	373.6
85°	429.7	442.6	793.7	1507.3	2581.7	2750.1	710.4	416.9	420.1	325.5	190.8
87.5°	144.3	163.6	325.5	501.9	877.1	859.5	206.9	123.5	150.7	141.1	59.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P455813
 CATALOG NUMBER: GALN-SA7A-730-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4419.3	4419.3	4419.3	4419.3	4419.3	4419.3	4419.3	4419.3	4419.3	4419.3	4419.3
2.5°	4433.8	4464.2	4485.1	4507.5	4528.4	4534.8	4530.0	4544.4	4546.0	4547.6	4549.2
5°	4459.4	4501.1	4541.2	4563.6	4573.3	4565.3	4538.0	4523.6	4510.7	4501.1	4504.3
7.5°	4494.7	4554.0	4590.9	4600.5	4574.9	4538.0	4470.6	4417.7	4384.1	4361.6	4360.0
10°	4549.2	4606.9	4637.4	4610.1	4539.6	4449.8	4344.0	4244.5	4169.2	4146.7	4145.1
12.5°	4618.2	4683.9	4682.3	4602.1	4478.7	4318.3	4146.7	4031.3	3928.6	3877.3	3898.2
15°	4708.0	4757.7	4711.2	4566.9	4371.2	4151.5	3939.9	3782.7	3667.3	3612.8	3616.0
17.5°	4812.2	4855.5	4732.0	4504.3	4220.5	3938.3	3692.9	3543.8	3452.4	3412.3	3409.1
20°	4942.1	4954.9	4732.0	4395.3	4026.5	3689.7	3455.6	3351.4	3300.1	3279.2	3285.6
22.5°	5081.6	5055.9	4706.4	4241.3	3771.5	3430.0	3272.8	3226.3	3200.6	3197.4	3200.6
25°	5238.7	5166.6	4653.4	4032.9	3505.3	3205.5	3114.1	3122.1	3126.9	3126.9	3138.1
27.5°	5431.2	5286.8	4565.3	3769.9	3194.2	2997.0	2971.3	3027.5	3053.1	3057.9	3065.9
30°	5684.5	5418.3	4419.3	3441.2	2929.6	2809.4	2854.3	2929.6	2958.5	2976.2	2972.9
32.5°	5986.0	5562.6	4222.1	3112.5	2716.4	2677.9	2732.4	2809.4	2841.5	2851.1	2838.2
35°	6340.4	5726.2	3962.3	2804.6	2530.4	2552.8	2617.0	2641.0	2669.9	2669.9	2676.3
37.5°	6722.0	5857.7	3644.8	2522.4	2386.1	2467.8	2514.3	2491.9	2479.1	2463.0	2471.0
40°	7110.1	5955.5	3232.7	2243.3	2241.7	2379.6	2392.5	2328.3	2277.0	2261.0	2253.0
42.5°	7448.4	6016.4	2860.7	2026.9	2105.4	2293.0	2302.7	2200.0	2118.3	2070.2	2054.1
45°	7847.7	6087.0	2496.7	1847.3	1978.8	2224.1	2248.1	2110.2	1990.0	1889.0	1863.3
47.5°	8394.5	6247.4	2209.7	1707.8	1887.4	2180.8	2214.5	2036.5	1877.7	1746.2	1725.4
50°	9011.8	6467.0	1986.8	1613.2	1816.8	2142.3	2184.0	1961.1	1773.5	1627.6	1611.5
52.5°	9577.9	6585.7	1794.4	1528.2	1747.8	2071.8	2143.9	1906.6	1670.9	1508.9	1494.5
55°	9887.4	6393.3	1605.1	1444.8	1653.2	1980.4	2087.8	1831.2	1571.5	1446.4	1425.5
57.5°	9929.1	5995.6	1433.6	1355.0	1553.8	1868.1	1983.6	1739.8	1507.3	1403.1	1385.5
60°	9606.7	5402.3	1300.5	1281.2	1452.8	1741.4	1866.5	1659.7	1441.6	1355.0	1337.3
62.5°	8805.0	4757.7	1207.5	1213.9	1350.2	1608.3	1779.9	1582.7	1379.0	1302.1	1286.0
65°	7425.9	3927.0	1117.7	1144.9	1258.8	1504.1	1701.3	1518.5	1316.5	1262.0	1247.5
67.5°	5158.6	2835.0	1043.9	1072.8	1172.2	1398.3	1609.9	1449.6	1245.9	1217.1	1194.6
70°	2855.9	1744.6	957.3	991.0	1082.4	1279.6	1507.3	1345.4	1143.3	1130.5	1098.4
72.5°	1500.9	1111.2	859.5	896.4	960.5	1127.3	1350.2	1231.5	1042.3	987.8	946.1
74°	1172.2	910.8	793.7	832.2	875.5	1037.5	1257.2	1149.7	970.1	906.0	873.9
75°	1021.4	811.4	737.6	787.3	825.8	976.5	1185.0	1092.0	930.0	869.1	840.2
77.5°	721.6	607.7	602.9	662.3	683.1	856.3	1068.0	994.2	829.0	764.9	737.6
80°	506.7	455.4	477.9	514.7	543.6	756.9	991.0	859.5	679.9	604.5	594.9
82.5°	330.3	298.3	341.6	375.2	384.8	558.0	800.2	652.6	495.5	402.5	373.6
85°	152.3	149.1	195.6	190.8	189.2	272.6	474.6	381.6	285.4	213.3	200.4
87.5°	38.5	36.9	48.1	40.1	48.1	41.7	43.3	11.2	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)