

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: P647875

Luminaire Tested: **GALN-SA4A-835-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-835-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12006.5 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

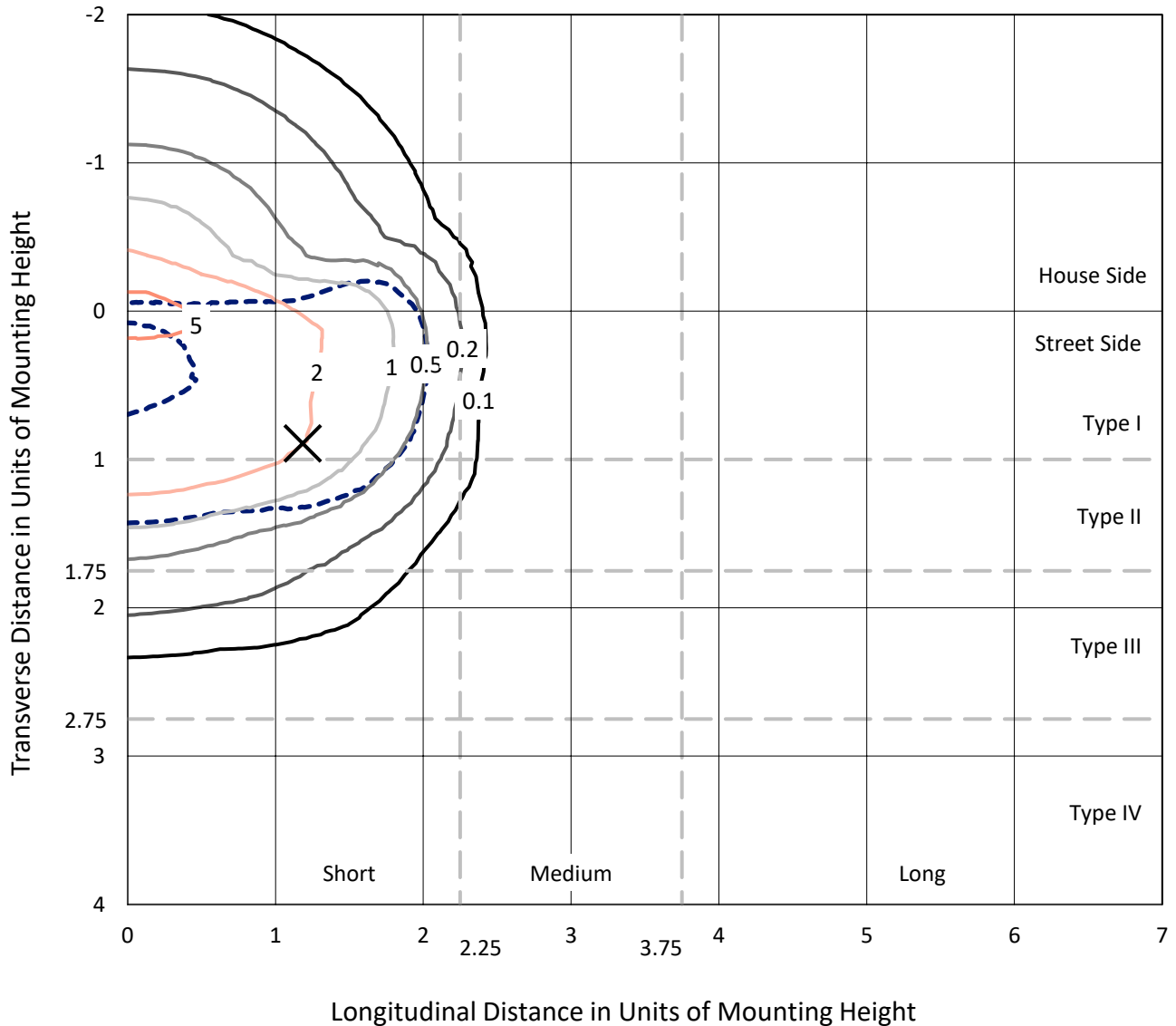
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647875
 CATALOG NUMBER: GALN-SA4A-835-U-SL2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

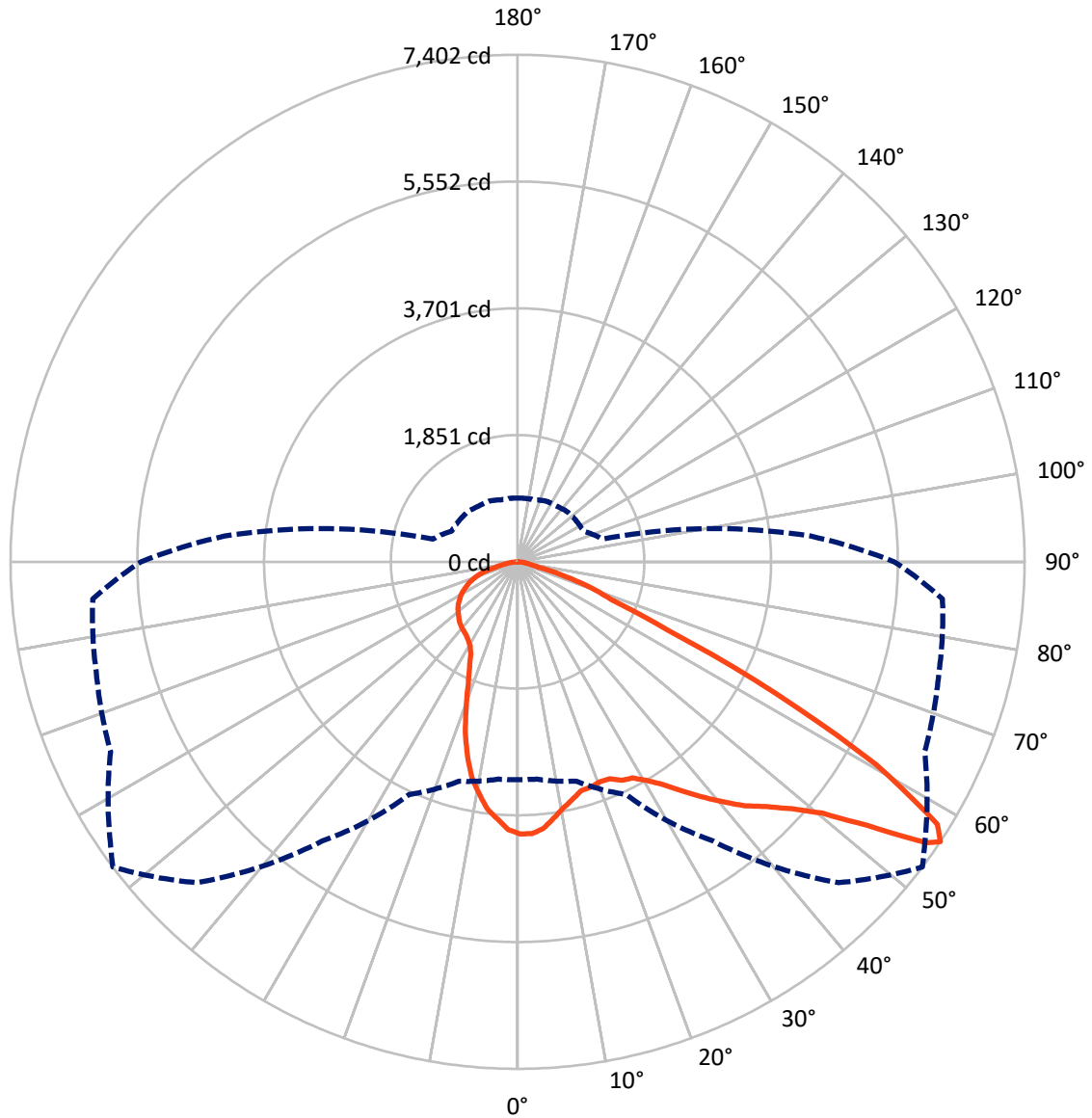
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

REPORT NUMBER: P647875
CATALOG NUMBER: GALN-SA4A-835-U-SL2-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P647875
 CATALOG NUMBER: GALN-SA4A-835-U-SL2-GRSWH

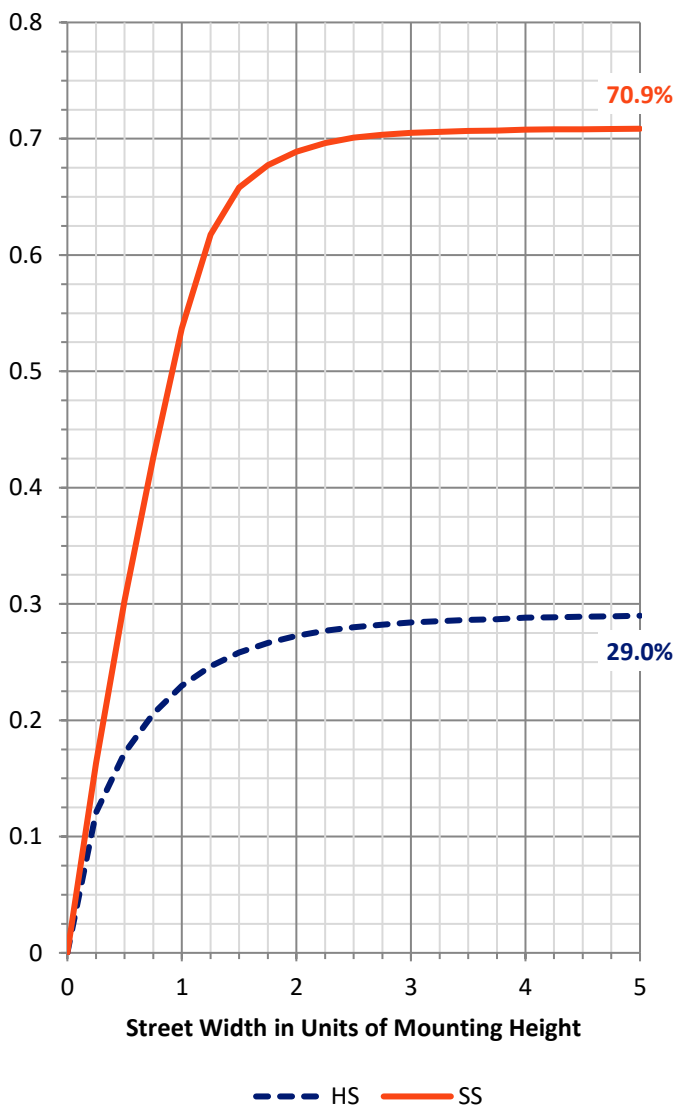
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3503.8	0.0	3503.8
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	8502.8	0.0	8502.8
	% Fixture	70.8	0.0	70.8
Total	Lumens	12006.5	0.0	12006.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.7	2.9
10°-20°	878.3	7.3
20°-30°	1295.1	10.8
30°-40°	1850.5	15.4
40°-50°	2546.9	21.2
50°-60°	3009.8	25.1
60°-70°	1604.0	13.4
70°-80°	406.9	3.4
80°-90°	63.5	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°	12006.5	100.0
0°-180°	12006.5	100.0

Coefficient of Utilization

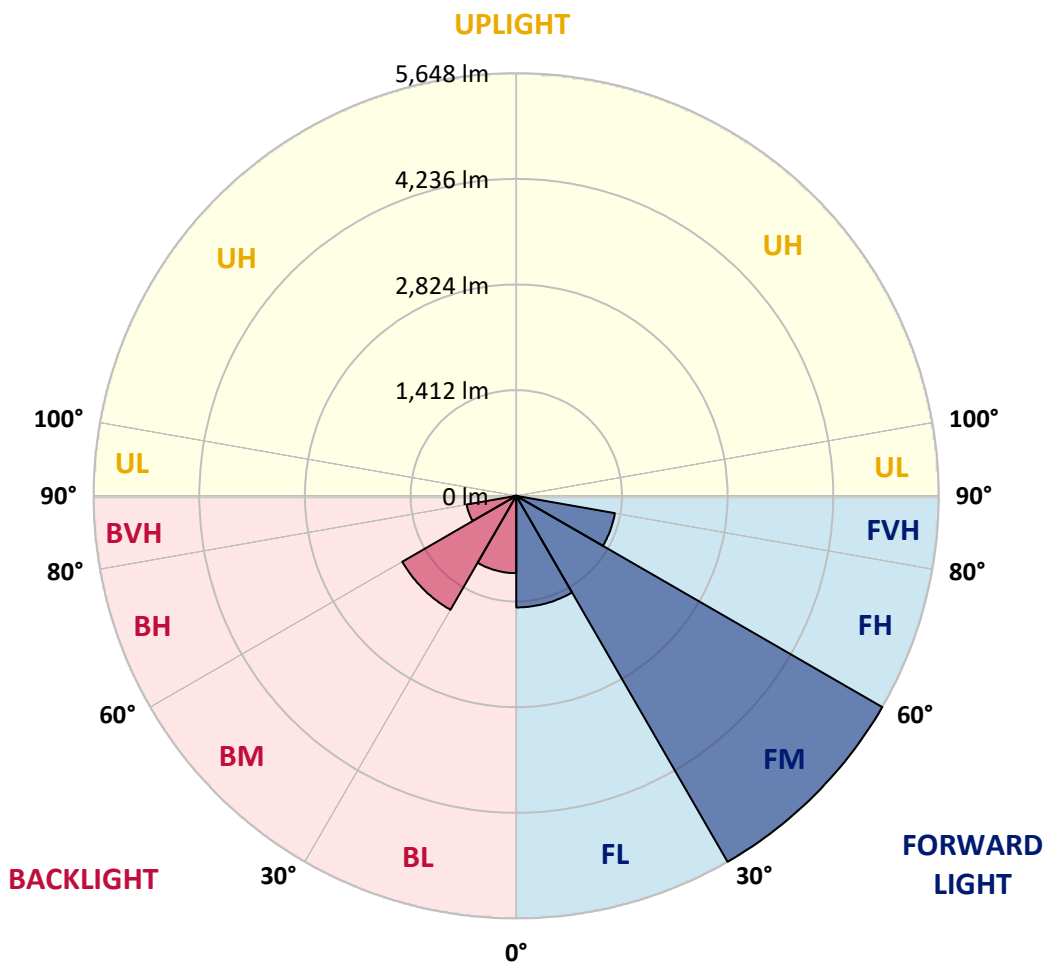


REPORT NUMBER: P647875
 CATALOG NUMBER: GALN-SA4A-835-U-SL2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1491.6	12.4			
FM (30°-60°)	5647.6	47.0			
FH (60°-80°)	1338.0	11.1			G1/1800
FVH (80°-90°)	25.5	0.2			G1/100
BL (0°-30°)	1033.4	8.6	B3/2500		
BM (30°-60°)	1759.5	14.7	B2/2500		
BH (60°-80°)	672.9	5.6	B2/1000		G2/1000
BVH (80°-90°)	37.9	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-G2
 Type II Short





REPORT NUMBER: P647875

CATALOG NUMBER: GALN-SA4A-835-U-SL2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3972.2	3972.2	3972.2	3972.2	3972.2	3972.2	3972.2	3972.2	3972.2	3972.2	3972.2
2.5°	3922.9	3889.1	3909.0	3901.4	3964.6	3983.0	3973.8	3981.5	4016.9	4000.0	3964.6
5°	3665.7	3713.5	3722.7	3745.8	3782.8	3855.2	3912.2	3927.5	3944.5	4023.1	4015.4
7.5°	3431.6	3464.0	3447.0	3514.8	3594.9	3712.0	3781.3	3793.6	3949.1	3992.3	4024.6
10°	3283.7	3251.4	3328.5	3346.9	3437.8	3571.8	3655.0	3705.8	3847.5	4018.4	4038.5
12.5°	3146.6	3135.9	3182.1	3234.5	3336.1	3474.7	3559.4	3579.5	3798.2	3978.4	4072.4
15°	3045.0	3032.7	3078.9	3117.4	3236.0	3359.2	3467.0	3524.0	3744.3	3955.3	4043.1
17.5°	2964.9	2963.4	2989.6	3058.9	3180.5	3283.7	3457.8	3460.9	3716.6	3990.7	4067.8
20°	2960.3	2958.8	2963.4	3040.4	3151.3	3277.6	3428.5	3456.2	3716.6	3966.1	4069.3
22.5°	2998.8	2974.1	3001.9	3051.2	3131.3	3288.4	3439.3	3500.9	3805.8	4087.7	4138.5
25°	3060.4	3066.6	3082.0	3099.0	3145.2	3313.0	3534.8	3585.7	3910.6	4192.5	4234.1
27.5°	3172.9	3169.7	3175.9	3185.2	3225.3	3336.1	3573.3	3704.2	4129.3	4378.8	4337.3
30°	3337.7	3326.9	3351.6	3383.9	3346.9	3410.0	3701.2	3799.7	4332.7	4566.8	4452.8
32.5°	3487.1	3527.1	3573.3	3587.2	3542.5	3554.8	3870.6	3970.7	4502.1	4797.8	4594.5
35°	3673.4	3705.8	3767.4	3810.5	3802.8	3765.8	4101.6	4234.1	4746.9	4967.2	4743.9
37.5°	3855.2	3893.7	3995.3	4123.2	4052.3	4035.3	4348.1	4457.4	4822.4	5058.1	4853.3
40°	4147.8	4146.3	4321.8	4388.1	4451.3	4422.0	4603.7	4640.7	4862.5	5038.1	4856.3
42.5°	4491.3	4469.8	4648.4	4751.6	4833.2	4836.3	4870.2	4857.9	4881.0	4936.4	4824.0
45°	4817.8	4864.0	5044.2	5229.0	5310.7	5319.9	5095.1	5072.0	4913.3	4907.1	4762.4
47.5°	5216.7	5227.5	5375.4	5618.7	5808.1	5743.5	5386.2	5335.4	5055.0	5102.7	4865.6
50°	5239.8	5319.9	5452.4	5738.8	6321.1	6304.1	5763.5	5668.0	5283.0	5380.0	5153.5
52.5°	4756.2	4737.7	4894.8	5363.1	6282.6	6861.7	6388.8	6160.9	5772.7	5698.8	5620.3
55°	3624.1	3667.3	3805.8	4278.7	5455.5	6869.4	7240.6	7054.2	6296.4	6170.1	6079.3
56°	3179.0	3185.2	3316.1	3747.4	4978.0	6624.5	7402.3	7251.4	6556.7	6364.2	6225.6
57.5°	2635.3	2599.9	2667.7	2903.3	4201.7	6107.0	7225.2	7373.0	6861.7	6573.7	6381.1
60°	2074.7	2067.0	2039.2	2082.4	2655.3	4600.7	6014.5	6347.2	6830.9	6376.5	6111.6
62.5°	1694.3	1655.7	1711.2	1772.8	1845.2	2854.0	4226.4	4422.0	5423.1	5090.4	4591.4
65°	1313.8	1295.3	1364.6	1564.9	1608.0	1812.8	2407.3	2558.3	3202.2	3145.2	2769.3
67.5°	904.1	907.2	967.2	1272.2	1490.9	1472.4	1474.0	1552.5	1671.2	1241.4	1081.2
70°	573.0	571.4	603.8	819.4	1199.9	1212.2	1150.5	1127.4	1069.0	646.9	685.4
72.5°	368.1	357.4	374.3	452.8	620.7	717.8	739.3	753.2	619.2	508.2	551.4
75°	208.0	197.2	191.0	211.0	244.9	283.4	311.1	320.4	358.8	385.1	408.2
77.5°	63.2	57.0	69.3	92.4	121.7	163.3	198.7	204.8	241.8	272.6	295.7
80°	27.7	30.8	43.1	61.6	86.3	115.5	140.2	149.4	174.1	197.2	203.3
82.5°	16.9	18.5	29.3	41.6	60.1	81.7	100.1	103.2	127.9	146.3	151.0
85°	6.2	7.7	15.4	24.7	38.5	52.4	52.4	57.0	52.4	52.4	57.0
87.5°	0.0	0.0	1.6	3.1	3.1	4.6	6.2	6.2	7.7	9.2	10.8
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: P647875

CATALOG NUMBER: GALN-SA4A-835-U-SL2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3972.2	3972.2	3972.2	3972.2	3972.2	3972.2	3972.2	3972.2	3972.2	3972.2	3972.2
2.5°	3983.0	3975.3	3963.0	3918.3	3913.7	3899.8	3822.8	3810.5	3822.8	3785.9	3788.9
5°	3975.3	3998.4	3906.0	3861.4	3778.1	3718.1	3648.8	3613.4	3550.2	3510.2	3554.8
7.5°	4009.2	4000.0	3884.5	3787.4	3662.6	3510.2	3388.5	3319.2	3208.3	3177.5	3200.6
10°	3996.9	3947.6	3812.0	3684.2	3448.6	3314.5	3117.4	2926.4	2821.7	2767.7	2760.1
12.5°	3979.9	3966.1	3739.7	3519.4	3271.5	2989.6	2712.3	2532.1	2361.1	2287.2	2298.0
15°	4000.0	3882.9	3604.1	3325.3	2995.8	2626.1	2327.3	2094.7	1976.1	1928.4	1928.4
17.5°	3990.7	3842.9	3539.4	3108.2	2690.8	2253.3	1925.2	1785.1	1735.8	1735.8	1749.7
20°	3995.3	3869.0	3408.5	2891.0	2330.4	1897.5	1658.8	1608.0	1629.6	1637.3	1644.9
22.5°	4021.5	3782.8	3280.7	2652.3	1996.1	1623.4	1506.3	1507.9	1546.3	1588.0	1580.3
25°	4053.8	3748.9	3125.1	2415.1	1740.5	1489.4	1452.5	1447.8	1477.1	1498.7	1501.7
27.5°	4026.1	3690.4	2966.5	2119.3	1531.0	1400.1	1392.3	1395.5	1404.7	1447.8	1433.9
30°	4117.0	3707.3	2767.7	1871.4	1415.4	1370.8	1361.6	1356.9	1370.8	1383.1	1372.4
32.5°	4229.5	3647.2	2619.9	1632.6	1358.5	1349.3	1330.8	1324.6	1332.3	1320.0	1326.2
35°	4278.7	3636.5	2427.4	1461.7	1313.8	1306.1	1295.3	1293.8	1295.3	1284.5	1275.3
37.5°	4306.4	3687.3	2207.1	1383.1	1286.1	1293.8	1269.2	1266.0	1238.3	1244.5	1249.1
40°	4354.2	3608.8	2028.4	1307.6	1269.2	1253.7	1232.2	1227.6	1209.1	1198.3	1209.1
42.5°	4284.9	3585.7	1852.9	1275.3	1244.5	1227.6	1212.2	1185.9	1179.8	1170.6	1164.4
45°	4229.5	3453.2	1695.8	1235.3	1215.2	1206.0	1176.7	1149.0	1125.9	1135.1	1121.3
47.5°	4271.0	3407.0	1540.2	1201.4	1175.2	1164.4	1135.1	1113.6	1090.5	1079.7	1076.6
50°	4437.3	3493.2	1409.3	1176.7	1141.3	1135.1	1096.7	1072.0	1050.4	1042.7	1045.8
52.5°	4834.8	3728.9	1320.0	1125.9	1109.0	1081.2	1059.6	1028.9	1015.0	990.3	1005.8
55°	5338.4	4112.4	1296.9	1078.2	1069.0	1044.3	1015.0	991.9	965.8	945.7	941.1
56°	5500.1	4295.7	1278.4	1059.6	1044.3	1030.4	991.9	978.0	936.5	931.8	928.7
57.5°	5631.0	4457.4	1281.5	1024.2	1008.8	996.5	973.4	939.5	911.8	894.9	902.6
60°	5335.4	4172.5	1223.0	970.4	967.2	944.1	911.8	896.4	862.6	842.5	837.9
62.5°	3966.1	2832.5	991.9	901.0	899.5	874.8	837.9	821.0	814.8	787.1	787.1
65°	2284.2	1775.8	857.9	844.1	831.7	807.0	770.1	756.2	740.9	731.6	723.9
67.5°	975.0	921.0	779.3	777.8	764.0	733.1	696.2	674.6	654.6	636.1	645.3
70°	707.0	717.8	703.9	696.2	679.3	640.7	608.4	582.2	551.4	539.1	548.3
72.5°	560.6	583.7	603.8	605.3	585.3	540.6	505.2	469.8	435.9	418.9	426.7
75°	425.1	440.5	460.6	465.2	435.9	405.0	371.2	334.3	308.0	288.0	291.1
77.5°	306.5	303.4	321.9	318.8	305.0	283.4	252.6	218.7	189.5	170.9	172.5
80°	209.5	214.1	224.9	223.3	206.4	192.5	169.4	141.7	120.1	104.8	101.6
82.5°	146.3	154.0	163.3	155.6	141.7	127.9	110.9	90.9	73.9	61.6	58.5
85°	52.4	60.1	69.3	73.9	78.5	75.5	63.2	50.8	37.0	30.8	29.3
87.5°	10.8	12.3	13.9	13.9	13.9	12.3	10.8	10.8	9.2	4.6	4.6
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)