

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: P529014

Luminaire Tested: **GALN-SA4A-827-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529014  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-827-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11250 lumens  
Efficiency: N/A  
Efficacy: 93.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

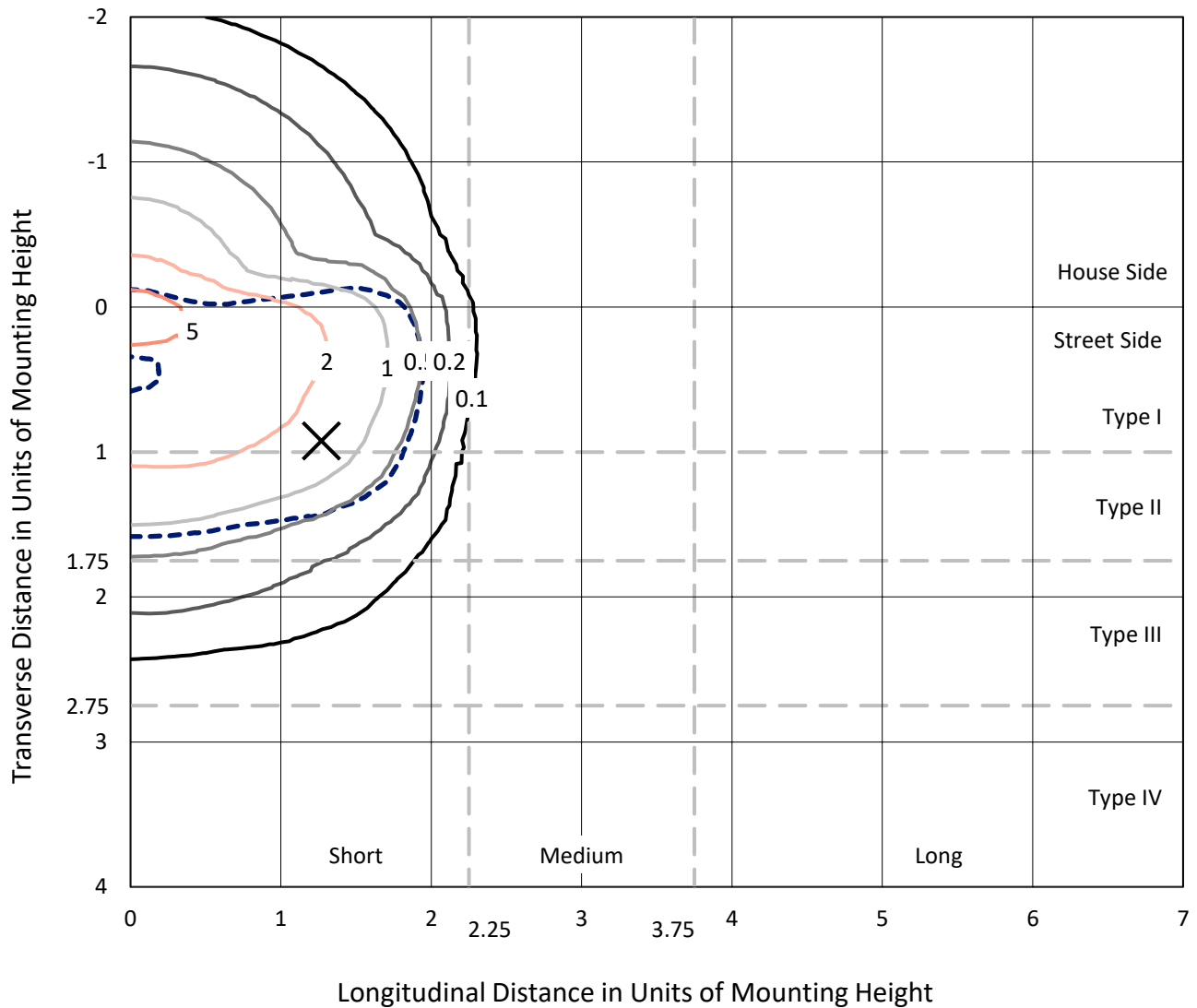
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA4A-827-U-SL3-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

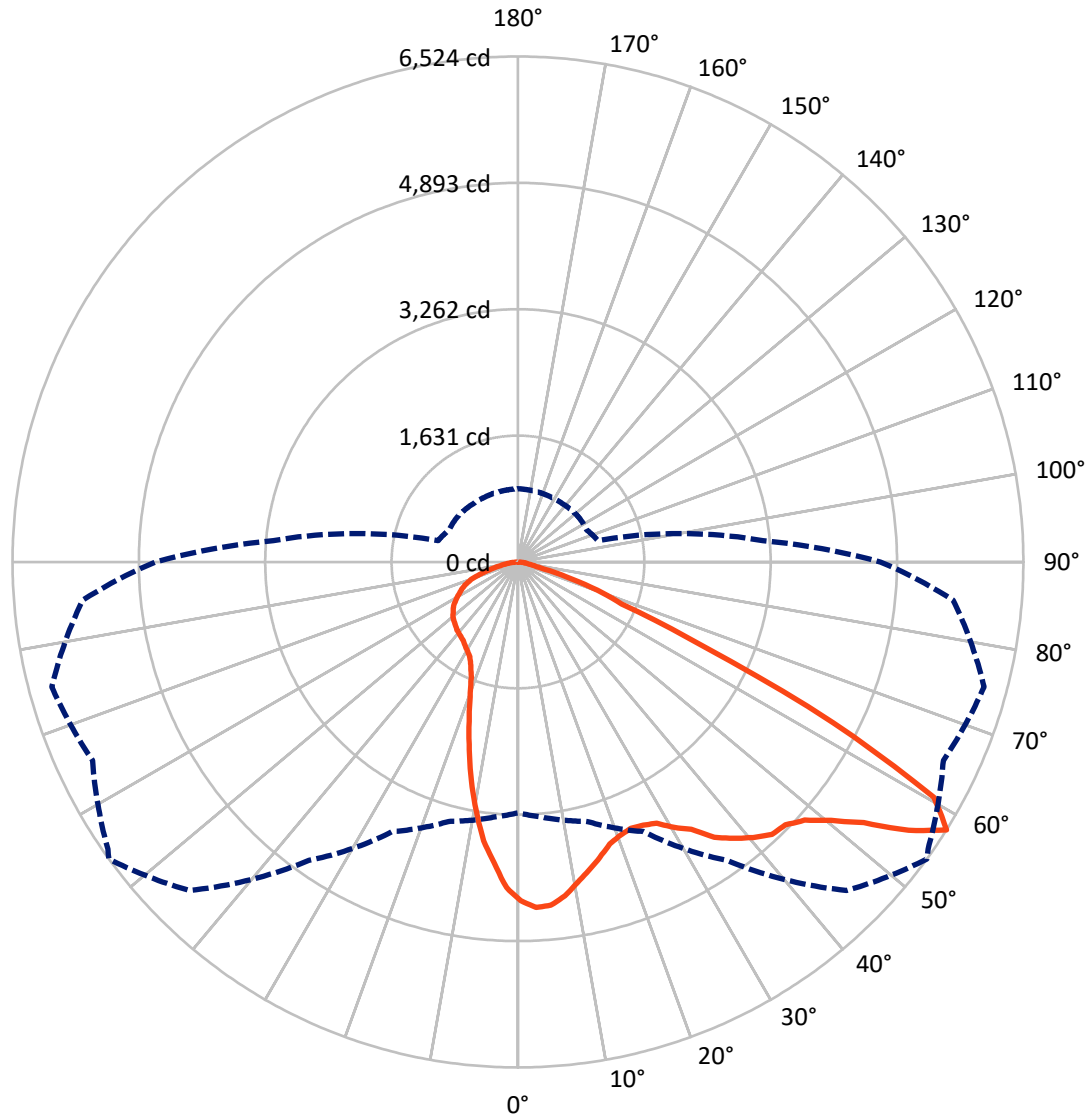
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc  
 Type II - Short - N/A

REPORT NUMBER: P529014  
CATALOG NUMBER: GALN-SA4A-827-U-SL3-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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CATALOG NUMBER: GALN-SA4A-827-U-SL3-GRSWH

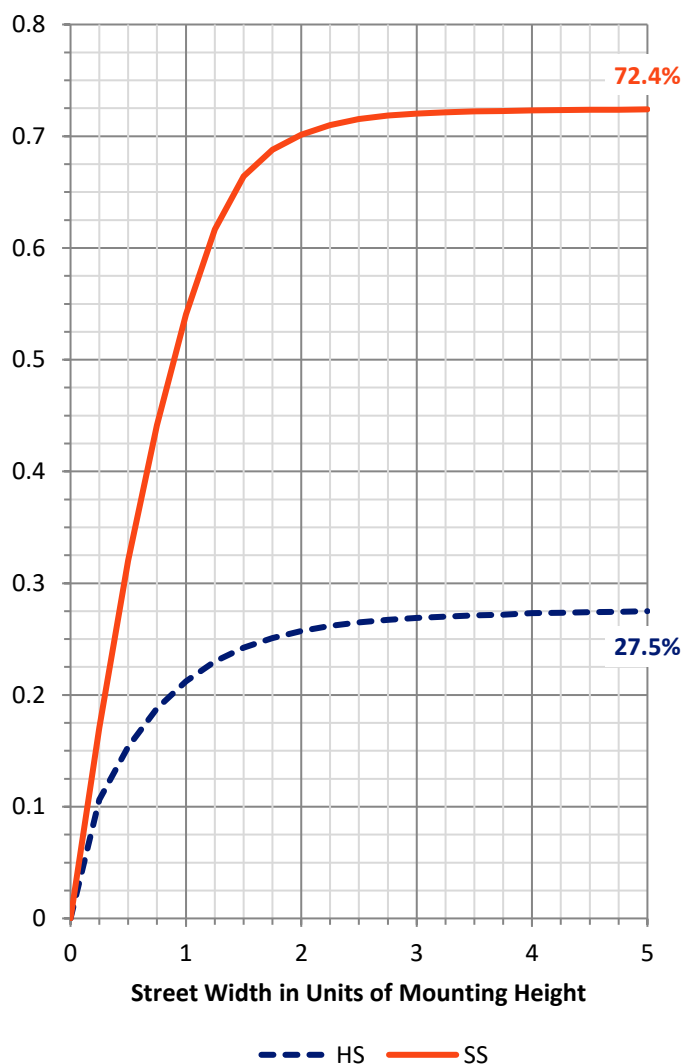
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3112.4	0.0	3112.4
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	8137.6	0.0	8137.6
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	11250.0	0.0	11250.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	377.1	3.4
10°-20°	873.1	7.8
20°-30°	1226.8	10.9
30°-40°	1715.0	15.2
40°-50°	2321.8	20.6
50°-60°	2828.1	25.1
60°-70°	1473.0	13.1
70°-80°	377.4	3.4
80°-90°	57.6	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°	11250.0	100.0
0°-180°	11250.0	100.0

**Coefficient of Utilization**

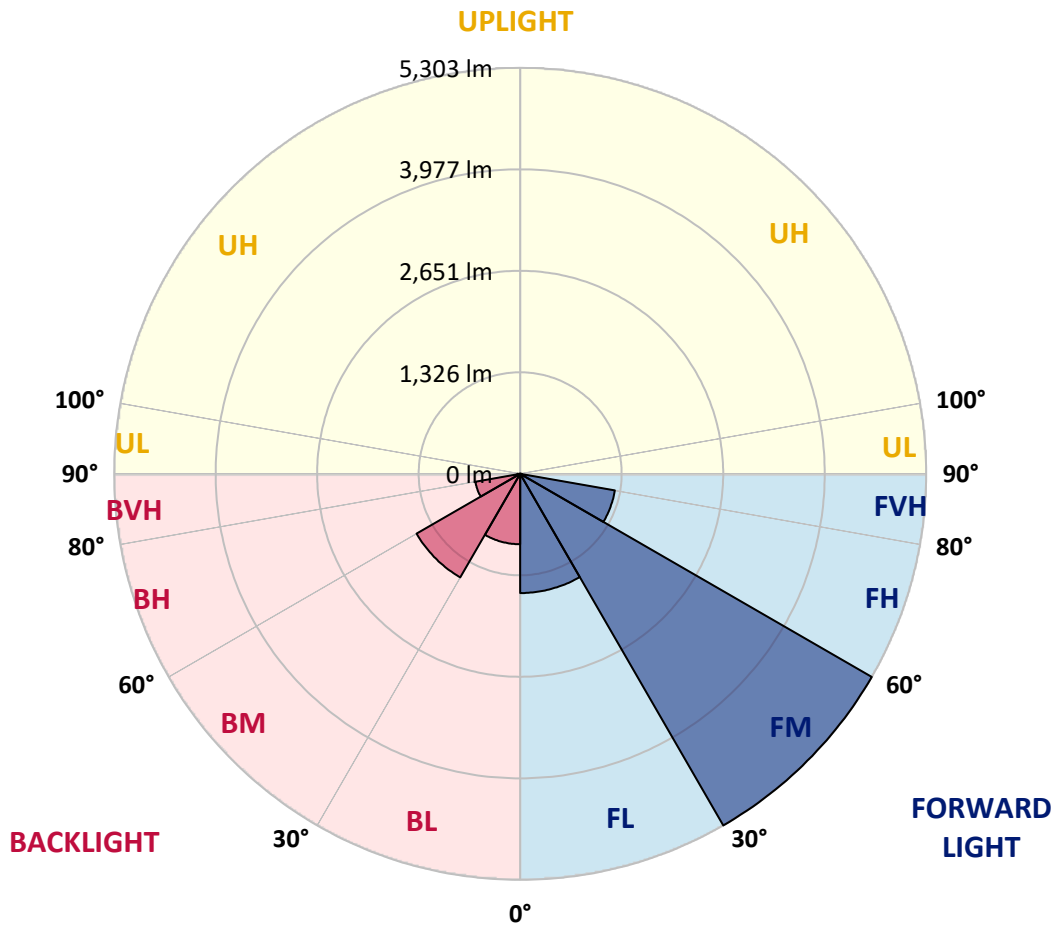


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1557.2	13.8			
FM (30°-60°)	5302.9	47.1			
FH (60°-80°)	1255.8	11.2			G1/1800
FVH (80°-90°)	21.8	0.2			G1/100
BL (0°-30°)	919.9	8.2	B2/1000		
BM (30°-60°)	1562.1	13.9	B2/2500		
BH (60°-80°)	594.6	5.3	B2/1000		G2/1000
BVH (80°-90°)	35.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4372.7	4372.7	4372.7	4372.7	4372.7	4372.7	4372.7	4372.7	4372.7	4372.7	4372.7
2.5°	4497.1	4479.8	4482.6	4505.8	4476.9	4465.3	4465.3	4408.9	4413.2	4374.2	4364.1
5°	4393.0	4352.5	4380.0	4414.7	4420.5	4432.0	4450.8	4436.4	4395.9	4353.9	4286.0
7.5°	4121.1	4157.3	4167.4	4192.0	4244.1	4291.8	4351.1	4310.6	4309.1	4267.2	4226.7
10°	3882.5	3860.9	3915.8	3952.0	4038.7	4118.2	4209.3	4205.0	4226.7	4179.0	4109.6
12.5°	3645.4	3628.0	3654.1	3736.5	3858.0	3973.6	4082.1	4041.6	4157.3	4148.6	3999.7
15°	3393.8	3406.8	3444.4	3521.0	3680.1	3818.9	3956.3	3957.7	4060.4	4095.1	3895.6
17.5°	3217.4	3202.9	3250.6	3364.9	3506.6	3672.9	3829.0	3860.9	4018.5	4038.7	3863.7
20°	3085.8	3106.0	3168.2	3226.1	3389.5	3590.5	3766.9	3778.4	4009.8	4064.7	3813.1
22.5°	3054.0	3042.4	3062.7	3156.6	3291.1	3509.5	3733.6	3777.0	4008.4	4056.1	3717.7
25°	3020.7	3058.3	3056.9	3150.9	3249.2	3444.4	3761.1	3808.8	4085.0	4100.9	3730.7
27.5°	3095.9	3091.6	3132.1	3139.3	3260.8	3461.8	3818.9	3855.1	4212.2	4199.2	3740.8
30°	3171.1	3149.4	3174.0	3259.3	3315.7	3561.5	3978.0	3975.1	4377.1	4368.4	3772.7
32.5°	3263.7	3253.5	3269.4	3344.6	3440.1	3694.6	4112.5	4197.8	4544.8	4599.8	3882.5
35°	3281.0	3322.9	3360.5	3461.8	3597.7	3910.0	4365.5	4436.4	4738.6	4910.7	4092.2
37.5°	3390.9	3406.8	3495.0	3674.3	3798.7	4197.8	4526.0	4570.9	4915.0	5110.2	4313.5
40°	3508.0	3526.8	3659.9	3847.8	4018.5	4385.8	4676.4	4690.9	4971.4	5263.5	4458.1
42.5°	3667.1	3684.4	3816.0	4051.7	4280.2	4546.3	4809.4	4825.3	4967.1	5439.9	4688.0
45°	3831.9	3873.9	4028.6	4296.1	4501.4	4734.2	4839.8	4904.9	5007.5	5597.5	4874.5
47.5°	4063.3	4102.3	4229.6	4491.3	4731.4	4899.1	4980.1	5043.7	5104.4	5734.9	4994.5
50°	4309.1	4316.4	4471.1	4708.2	4884.6	5085.6	5241.8	5263.5	5231.7	5894.0	5198.4
52.5°	4489.9	4513.0	4633.0	4864.4	5127.6	5374.8	5588.8	5612.0	5549.8	5953.2	5267.8
55°	4190.5	4177.5	4372.7	4680.7	5291.0	5805.7	6116.6	6134.0	5781.2	6136.9	5494.9
57.5°	3239.1	3301.2	3467.5	3839.2	4701.0	5996.6	6524.4	6462.2	6058.8	6229.4	5639.5
60°	2354.1	2339.7	2451.0	2699.7	3542.7	5168.1	6168.7	6232.3	5831.8	5614.9	4650.4
62.5°	1917.4	1897.2	1905.8	1914.5	2286.1	3429.9	4566.5	4565.1	4491.3	4035.8	3136.4
65°	1532.8	1580.5	1584.8	1649.9	1697.6	2049.0	2646.2	2787.9	2427.9	1991.2	1444.6
67.5°	1155.4	1138.0	1195.9	1427.2	1516.9	1479.3	1444.6	1460.5	1038.2	749.0	705.7
70°	681.1	673.8	743.3	994.9	1249.4	1175.6	1088.8	1090.3	712.9	523.5	582.7
72.5°	373.1	371.6	386.1	504.7	710.0	737.5	653.6	673.8	425.1	423.7	455.5
75°	208.2	203.9	199.5	222.7	255.9	270.4	276.2	279.1	292.1	326.8	339.8
77.5°	76.6	73.7	73.7	85.3	108.5	135.9	172.1	175.0	206.8	237.1	250.2
80°	26.0	28.9	39.0	53.5	72.3	96.9	117.1	120.0	146.0	166.3	170.6
82.5°	15.9	17.4	26.0	37.6	52.1	68.0	86.8	88.2	108.5	121.5	127.2
85°	7.2	8.7	14.5	23.1	33.3	44.8	46.3	46.3	44.8	46.3	43.4
87.5°	0.0	0.0	2.9	2.9	2.9	4.3	5.8	4.3	7.2	8.7	8.7
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: P529014

CATALOG NUMBER: GALN-SA4A-827-U-SL3-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4372.7	4372.7	4372.7	4372.7	4372.7	4372.7	4372.7	4372.7	4372.7	4372.7	4372.7
2.5°	4333.7	4317.8	4268.6	4225.3	4212.2	4154.4	4069.1	4079.2	4017.0	4045.9	4015.6
5°	4274.4	4220.9	4095.1	4041.6	3901.3	3837.7	3794.3	3685.9	3635.3	3625.2	3581.8
7.5°	4122.6	4089.3	3931.7	3787.1	3638.2	3510.9	3347.5	3236.2	3156.6	3135.0	3071.3
10°	4002.6	3928.8	3710.5	3490.7	3278.1	3056.9	2844.3	2678.0	2597.0	2503.1	2471.2
12.5°	3884.0	3772.7	3477.7	3195.7	2920.9	2641.9	2384.5	2182.0	2005.6	1963.7	1949.2
15°	3810.2	3616.5	3269.4	2929.6	2539.2	2174.8	1917.4	1784.4	1675.9	1631.1	1662.9
17.5°	3713.4	3487.8	3069.9	2617.3	2187.8	1852.3	1636.9	1554.5	1515.4	1519.8	1506.7
20°	3591.9	3366.3	2808.2	2333.9	1874.0	1606.5	1483.6	1453.2	1459.0	1469.2	1464.8
22.5°	3505.1	3218.8	2618.7	2044.7	1619.5	1470.6	1420.0	1398.3	1417.1	1425.8	1418.5
25°	3438.6	3093.0	2388.8	1788.7	1472.0	1394.0	1370.8	1369.4	1398.3	1409.9	1402.6
27.5°	3377.9	2975.9	2160.3	1593.5	1373.7	1334.7	1327.4	1344.8	1363.6	1375.2	1385.3
30°	3341.7	2886.2	1946.3	1430.1	1324.5	1305.8	1292.7	1308.6	1318.8	1330.3	1324.5
32.5°	3376.4	2822.6	1739.6	1337.6	1284.1	1265.3	1282.6	1272.5	1289.8	1300.0	1284.1
35°	3484.9	2766.2	1592.1	1288.4	1237.8	1245.0	1247.9	1243.6	1250.8	1242.1	1260.9
37.5°	3591.9	2746.0	1456.1	1246.5	1216.1	1216.1	1213.2	1204.5	1219.0	1216.1	1224.8
40°	3727.8	2759.0	1340.5	1201.6	1195.9	1193.0	1181.4	1179.9	1174.2	1175.6	1178.5
42.5°	3846.4	2787.9	1273.9	1172.7	1177.1	1182.8	1161.1	1143.8	1151.0	1136.6	1136.6
45°	3972.2	2813.9	1214.7	1152.5	1148.1	1146.7	1129.3	1119.2	1113.4	1114.9	1127.9
47.5°	4170.3	2851.5	1169.8	1125.0	1127.9	1106.2	1101.9	1088.8	1094.6	1103.3	1104.8
50°	4310.6	2931.1	1135.1	1093.2	1103.3	1088.8	1062.8	1057.0	1057.0	1071.5	1068.6
52.5°	4408.9	3042.4	1101.9	1058.5	1062.8	1051.3	1042.6	1029.6	1020.9	1041.1	1051.3
55°	4709.7	3227.5	1093.2	1029.6	1028.1	1016.5	1000.6	987.6	983.3	986.2	1006.4
57.5°	4680.7	3169.7	1065.7	979.0	976.1	960.2	944.2	939.9	938.5	941.4	947.1
60°	3800.1	2341.1	951.5	921.1	916.8	913.9	898.0	880.6	871.9	880.6	873.4
62.5°	2514.6	1567.5	838.7	851.7	854.6	847.4	821.3	804.0	806.9	817.0	801.1
65°	1234.9	921.1	760.6	795.3	798.2	778.0	753.4	733.1	723.0	731.7	724.5
67.5°	705.7	704.2	697.0	733.1	731.7	711.4	672.4	655.0	637.7	640.6	636.2
70°	598.6	610.2	624.7	646.4	644.9	621.8	575.5	562.5	537.9	535.0	527.8
72.5°	471.4	491.6	523.5	539.4	526.3	497.4	467.1	445.4	423.7	410.7	415.0
75°	349.9	378.9	396.2	406.3	386.1	370.2	345.6	319.6	293.5	282.0	277.6
77.5°	254.5	263.2	279.1	286.3	273.3	257.4	242.9	216.9	192.3	176.4	172.1
80°	177.9	183.6	195.2	195.2	195.2	188.0	169.2	143.2	127.2	112.8	109.9
82.5°	124.4	130.1	141.7	135.9	134.5	125.8	114.2	94.0	76.6	66.5	63.6
85°	43.4	47.7	57.8	69.4	73.7	72.3	65.1	52.1	40.5	33.3	30.4
87.5°	10.1	10.1	11.6	10.1	10.1	11.6	10.1	10.1	10.1	7.2	5.8
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)