

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: P528546

Luminaire Tested: **GALN-SA3C-827-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528546
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-SA3C-827-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA 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: 13052 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

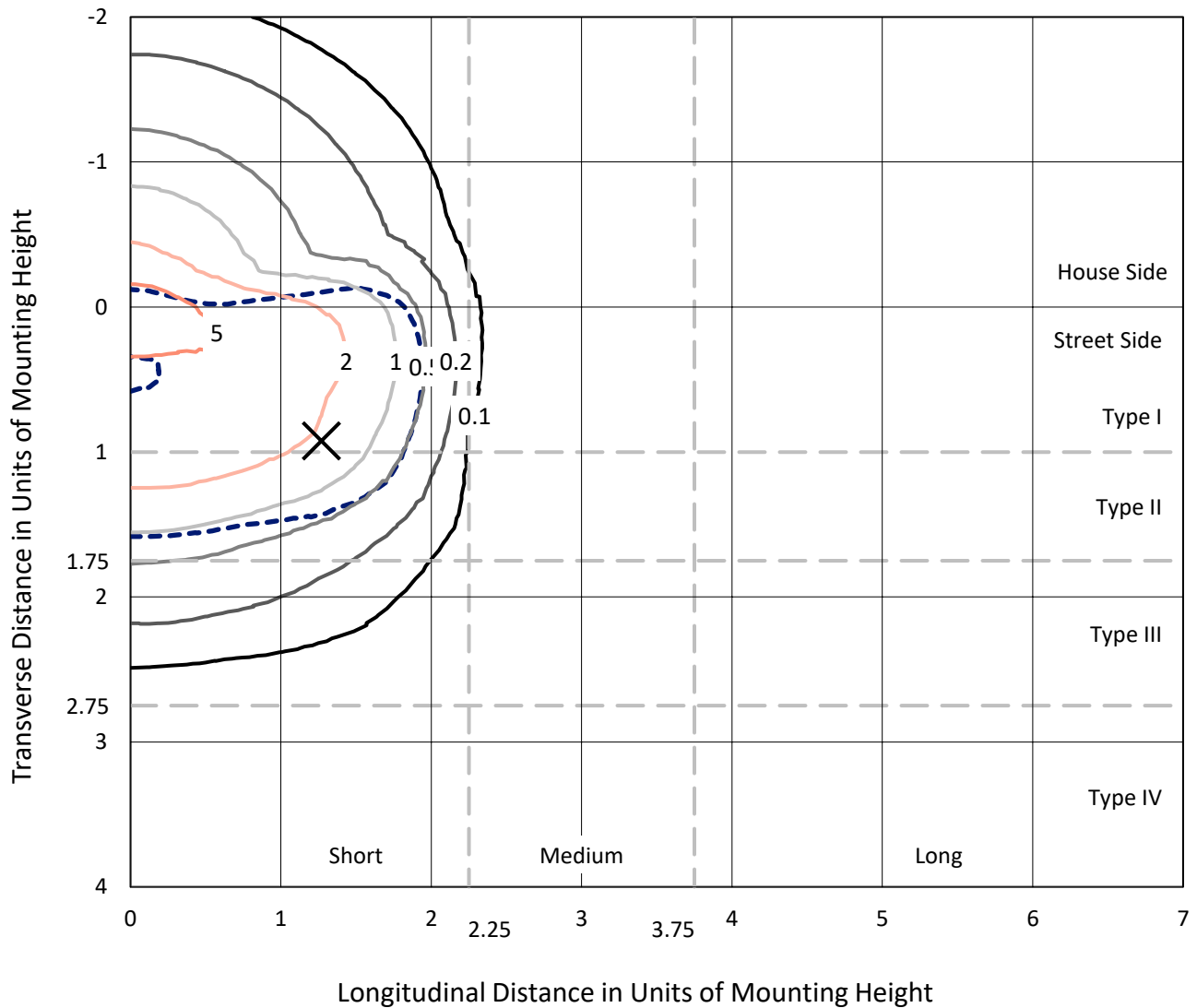
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P528546
 CATALOG NUMBER: GALN-SA3C-827-U-SL3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

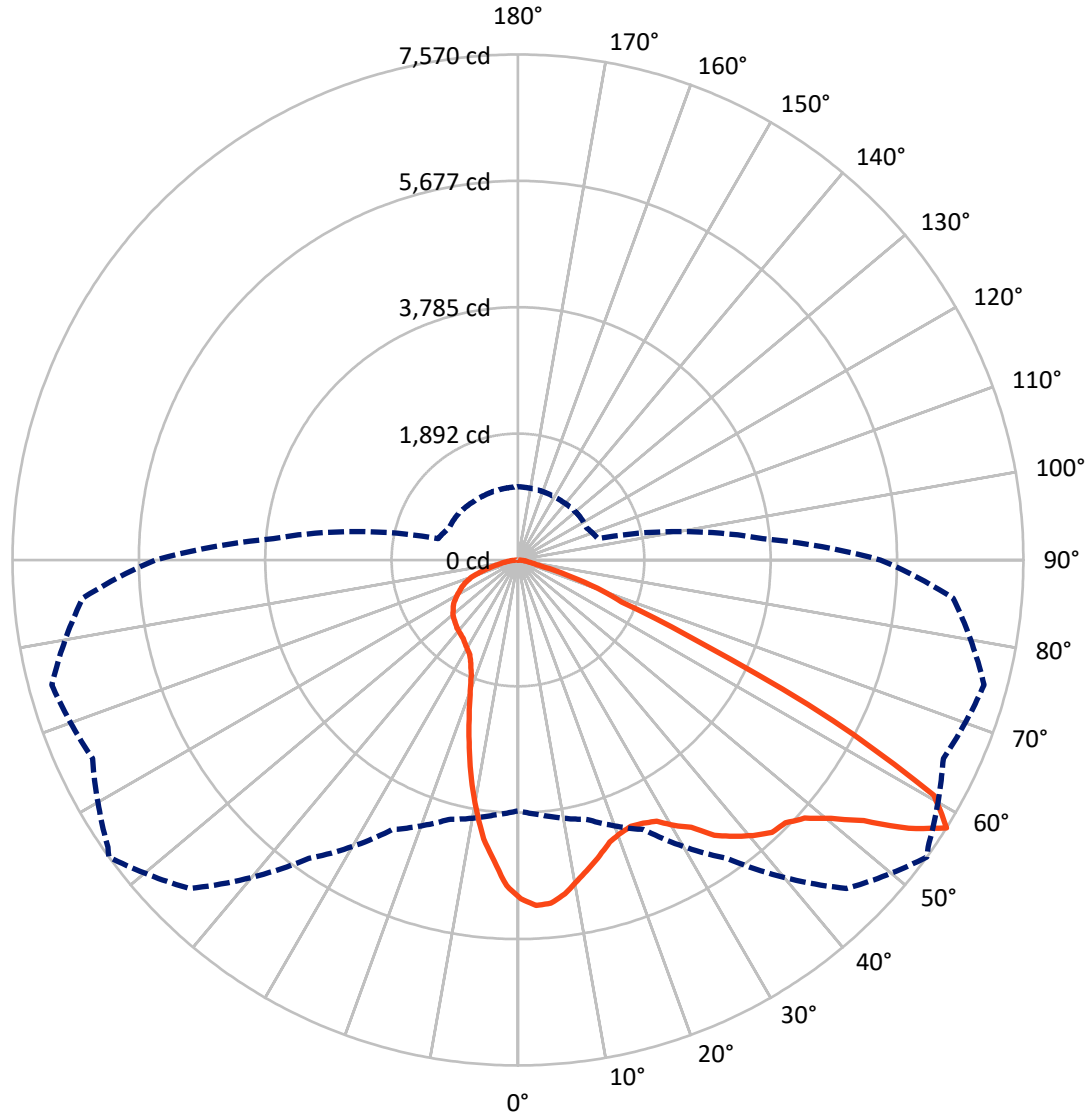
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - N/A

REPORT NUMBER: P528546
CATALOG NUMBER: GALN-SA3C-827-U-SL3-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P528546
 CATALOG NUMBER: GALN-SA3C-827-U-SL3-GRSWH

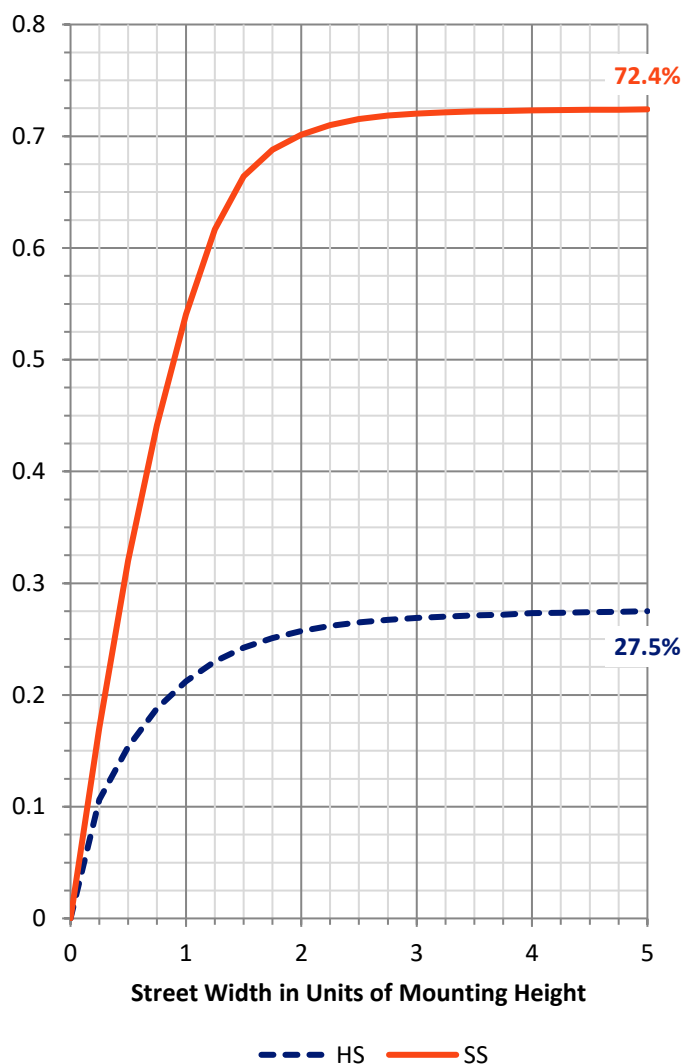
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3610.9	0.0	3610.9
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	9441.1	0.0	9441.1
	% Fixture	72.3	0.0	72.3
Total	Lumens	13052.0	0.0	13052.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.5	3.4
10°-20°	1013.0	7.8
20°-30°	1423.3	10.9
30°-40°	1989.8	15.2
40°-50°	2693.7	20.6
50°-60°	3281.1	25.1
60°-70°	1708.9	13.1
70°-80°	437.9	3.4
80°-90°	66.8	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°	13052.0	100.0
0°-180°	13052.0	100.0

Coefficient of Utilization



REPORT NUMBER: P528546

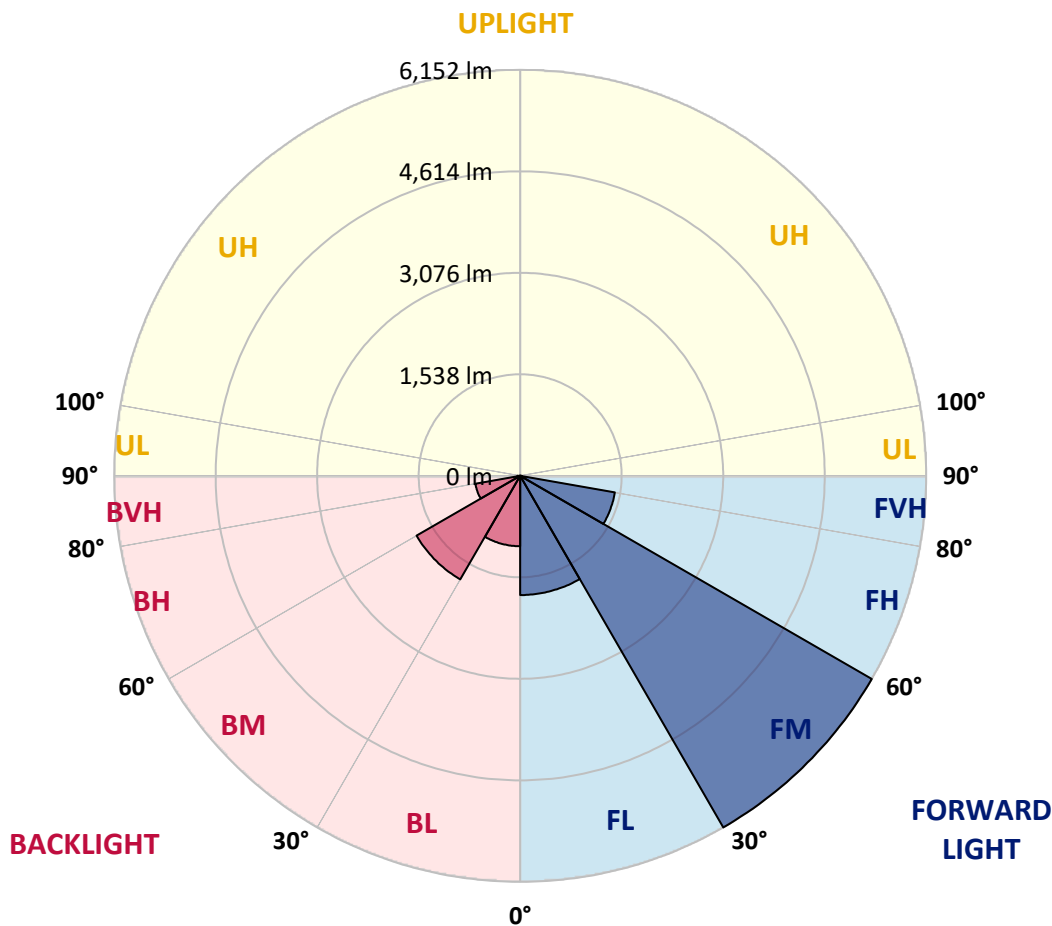
CATALOG NUMBER: GALN-SA3C-827-U-SL3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1806.6	13.8			
FM (30°-60°)	6152.3	47.1			
FH (60°-80°)	1457.0	11.2			G1/1800
FVH (80°-90°)	25.2	0.2			G1/100
BL (0°-30°)	1067.2	8.2	B3/2500		
BM (30°-60°)	1812.3	13.9	B2/2500		
BH (60°-80°)	689.9	5.3	B2/1000		G2/1000
BVH (80°-90°)	41.6	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: P528546

CATALOG NUMBER: GALN-SA3C-827-U-SL3-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5073.2	5073.2	5073.2	5073.2	5073.2	5073.2	5073.2	5073.2	5073.2	5073.2	5073.2
2.5°	5217.4	5197.3	5200.7	5227.5	5194.0	5180.5	5180.5	5115.1	5120.1	5074.8	5063.1
5°	5096.6	5049.7	5081.6	5121.8	5128.5	5141.9	5163.8	5147.0	5100.0	5051.4	4972.5
7.5°	4781.3	4823.2	4834.9	4863.5	4923.9	4979.2	5048.0	5001.0	4999.3	4950.7	4903.7
10°	4504.4	4479.3	4543.0	4585.0	4685.6	4777.9	4883.6	4878.6	4903.7	4848.4	4767.8
12.5°	4229.3	4209.2	4239.4	4335.0	4475.9	4610.1	4736.0	4689.0	4823.2	4813.1	4640.3
15°	3937.4	3952.5	3996.1	4085.0	4269.6	4430.6	4590.0	4591.7	4710.8	4751.1	4519.5
17.5°	3732.7	3716.0	3771.3	3903.9	4068.3	4261.2	4442.4	4479.3	4662.1	4685.6	4482.6
20°	3580.1	3603.6	3675.7	3742.8	3932.4	4165.6	4370.2	4383.7	4652.1	4715.8	4423.9
22.5°	3543.2	3529.7	3553.2	3662.3	3818.3	4071.6	4331.6	4382.0	4650.4	4705.8	4313.2
25°	3504.6	3548.2	3546.5	3655.6	3769.6	3996.1	4363.5	4418.9	4739.3	4757.8	4328.3
27.5°	3591.8	3586.8	3633.8	3642.1	3783.1	4016.3	4430.6	4472.6	4886.9	4871.8	4340.0
30°	3679.0	3653.9	3682.4	3781.4	3846.8	4132.0	4615.2	4611.8	5078.2	5068.1	4376.9
32.5°	3786.4	3774.7	3793.1	3880.4	3991.1	4286.4	4771.2	4870.2	5272.8	5336.6	4504.4
35°	3806.5	3855.2	3898.8	4016.3	4174.0	4536.3	5064.8	5147.0	5497.6	5697.2	4747.7
37.5°	3934.0	3952.5	4054.8	4262.9	4407.1	4870.2	5251.0	5303.0	5702.3	5928.8	5004.4
40°	4069.9	4091.7	4246.1	4464.2	4662.1	5088.3	5425.5	5442.2	5767.7	6106.6	5172.1
42.5°	4254.5	4274.6	4427.3	4700.7	4965.8	5274.5	5579.8	5598.3	5762.7	6311.3	5438.9
45°	4445.7	4494.4	4673.9	4984.2	5222.5	5492.6	5615.0	5690.5	5809.6	6494.1	5655.3
47.5°	4714.1	4759.4	4907.1	5210.7	5489.2	5683.8	5777.8	5851.6	5922.0	6653.5	5794.5
50°	4999.3	5007.7	5187.2	5462.4	5667.0	5900.2	6081.4	6106.6	6069.7	6838.0	6031.1
52.5°	5209.1	5235.9	5375.1	5643.6	5948.9	6235.8	6484.1	6510.9	6438.8	6906.8	6111.6
55°	4861.8	4846.7	5073.2	5430.5	6138.5	6735.7	7096.4	7116.5	6707.2	7119.9	6375.0
57.5°	3757.9	3830.0	4023.0	4454.1	5454.0	6957.1	7569.5	7497.3	7029.3	7227.2	6542.8
60°	2731.2	2714.4	2843.6	3132.1	4110.2	5995.9	7156.8	7230.6	6765.9	6514.2	5395.3
62.5°	2224.5	2201.1	2211.1	2221.2	2652.3	3979.3	5298.0	5296.3	5210.7	4682.3	3638.8
65°	1778.3	1833.7	1838.7	1914.2	1969.5	2377.2	3070.1	3234.5	2816.7	2310.1	1676.0
67.5°	1340.4	1320.3	1387.4	1655.8	1759.8	1716.2	1676.0	1694.4	1204.5	869.0	818.7
70°	790.2	781.8	862.3	1154.2	1449.5	1363.9	1263.3	1264.9	827.1	607.3	676.1
72.5°	432.8	431.2	447.9	585.5	823.7	855.6	758.3	781.8	493.2	491.5	528.5
75°	241.6	236.5	231.5	258.4	296.9	313.7	320.4	323.8	338.9	379.1	394.2
77.5°	88.9	85.6	85.6	99.0	125.8	157.7	199.6	203.0	239.9	275.1	290.2
80°	30.2	33.6	45.3	62.1	83.9	112.4	135.9	139.2	169.4	192.9	198.0
82.5°	18.5	20.1	30.2	43.6	60.4	78.8	100.7	102.3	125.8	140.9	147.6
85°	8.4	10.1	16.8	26.8	38.6	52.0	53.7	53.7	52.0	53.7	50.3
87.5°	0.0	0.0	3.4	3.4	3.4	5.0	6.7	5.0	8.4	10.1	10.1
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: P528546

CATALOG NUMBER: GALN-SA3C-827-U-SL3-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5073.2	5073.2	5073.2	5073.2	5073.2	5073.2	5073.2	5073.2	5073.2	5073.2	5073.2
2.5°	5027.9	5009.4	4952.4	4902.0	4886.9	4819.8	4720.9	4732.6	4660.5	4694.0	4658.8
5°	4959.1	4897.0	4751.1	4689.0	4526.3	4452.4	4402.1	4276.3	4217.6	4205.8	4155.5
7.5°	4782.9	4744.3	4561.5	4393.7	4220.9	4073.3	3883.7	3754.5	3662.3	3637.1	3563.3
10°	4643.7	4558.1	4304.8	4049.8	3803.2	3546.5	3299.9	3107.0	3013.0	2904.0	2867.1
12.5°	4506.1	4376.9	4034.7	3707.6	3388.8	3065.0	2766.4	2531.5	2326.9	2278.2	2261.4
15°	4420.6	4195.8	3793.1	3398.9	2945.9	2523.2	2224.5	2070.2	1944.4	1892.4	1929.3
17.5°	4308.2	4046.5	3561.6	3036.5	2538.3	2149.0	1899.1	1803.5	1758.2	1763.2	1748.1
20°	4167.2	3905.5	3258.0	2707.7	2174.2	1863.9	1721.3	1686.0	1692.7	1704.5	1699.4
22.5°	4066.6	3734.4	3038.2	2372.2	1878.9	1706.2	1647.4	1622.3	1644.1	1654.1	1645.8
25°	3989.4	3588.5	2771.5	2075.2	1707.8	1617.2	1590.4	1588.7	1622.3	1635.7	1627.3
27.5°	3919.0	3452.6	2506.4	1848.8	1593.8	1548.5	1540.1	1560.2	1582.0	1595.4	1607.2
30°	3877.0	3348.6	2258.1	1659.2	1536.7	1514.9	1499.8	1518.3	1530.0	1543.4	1536.7
32.5°	3917.3	3274.7	2018.2	1551.8	1489.7	1467.9	1488.1	1476.3	1496.4	1508.2	1489.7
35°	4043.1	3209.3	1847.1	1494.8	1436.1	1444.4	1447.8	1442.8	1451.2	1441.1	1462.9
37.5°	4167.2	3185.8	1689.4	1446.1	1410.9	1410.9	1407.5	1397.5	1414.2	1410.9	1421.0
40°	4324.9	3200.9	1555.2	1394.1	1387.4	1384.0	1370.6	1368.9	1362.2	1363.9	1367.3
42.5°	4462.5	3234.5	1478.0	1360.6	1365.6	1372.3	1347.1	1327.0	1335.4	1318.6	1318.6
45°	4608.5	3264.7	1409.2	1337.1	1332.0	1330.4	1310.2	1298.5	1291.8	1293.5	1308.6
47.5°	4838.3	3308.3	1357.2	1305.2	1308.6	1283.4	1278.4	1263.3	1270.0	1280.0	1281.7
50°	5001.0	3400.6	1316.9	1268.3	1280.0	1263.3	1233.1	1226.3	1226.3	1243.1	1239.8
52.5°	5115.1	3529.7	1278.4	1228.0	1233.1	1219.6	1209.6	1194.5	1184.4	1207.9	1219.6
55°	5464.1	3744.5	1268.3	1194.5	1192.8	1179.4	1160.9	1145.8	1140.8	1144.1	1167.6
57.5°	5430.5	3677.4	1236.4	1135.8	1132.4	1113.9	1095.5	1090.5	1088.8	1092.1	1098.8
60°	4408.8	2716.1	1103.9	1068.7	1063.6	1060.3	1041.8	1021.7	1011.6	1021.7	1013.3
62.5°	2917.4	1818.6	973.0	988.1	991.5	983.1	952.9	932.8	936.1	947.9	929.4
65°	1432.7	1068.7	882.4	922.7	926.1	902.6	874.0	850.6	838.8	848.9	840.5
67.5°	818.7	817.0	808.6	850.6	848.9	825.4	780.1	760.0	739.8	743.2	738.2
70°	694.5	708.0	724.7	749.9	748.2	721.4	667.7	652.6	624.1	620.7	612.3
72.5°	546.9	570.4	607.3	625.8	610.7	577.1	541.9	516.7	491.5	476.4	481.5
75°	406.0	439.5	459.7	471.4	447.9	429.5	401.0	370.8	340.6	327.1	322.1
77.5°	295.3	305.3	323.8	332.2	317.1	298.6	281.8	251.6	223.1	204.7	199.6
80°	206.3	213.1	226.5	226.5	226.5	218.1	196.3	166.1	147.6	130.9	127.5
82.5°	144.3	151.0	164.4	157.7	156.0	146.0	132.5	109.0	88.9	77.2	73.8
85°	50.3	55.4	67.1	80.5	85.6	83.9	75.5	60.4	47.0	38.6	35.2
87.5°	11.7	11.7	13.4	11.7	11.7	13.4	11.7	11.7	11.7	8.4	6.7
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)