

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: P455216

Luminaire Tested: **GALN-SA6B-827-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455216
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24585 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

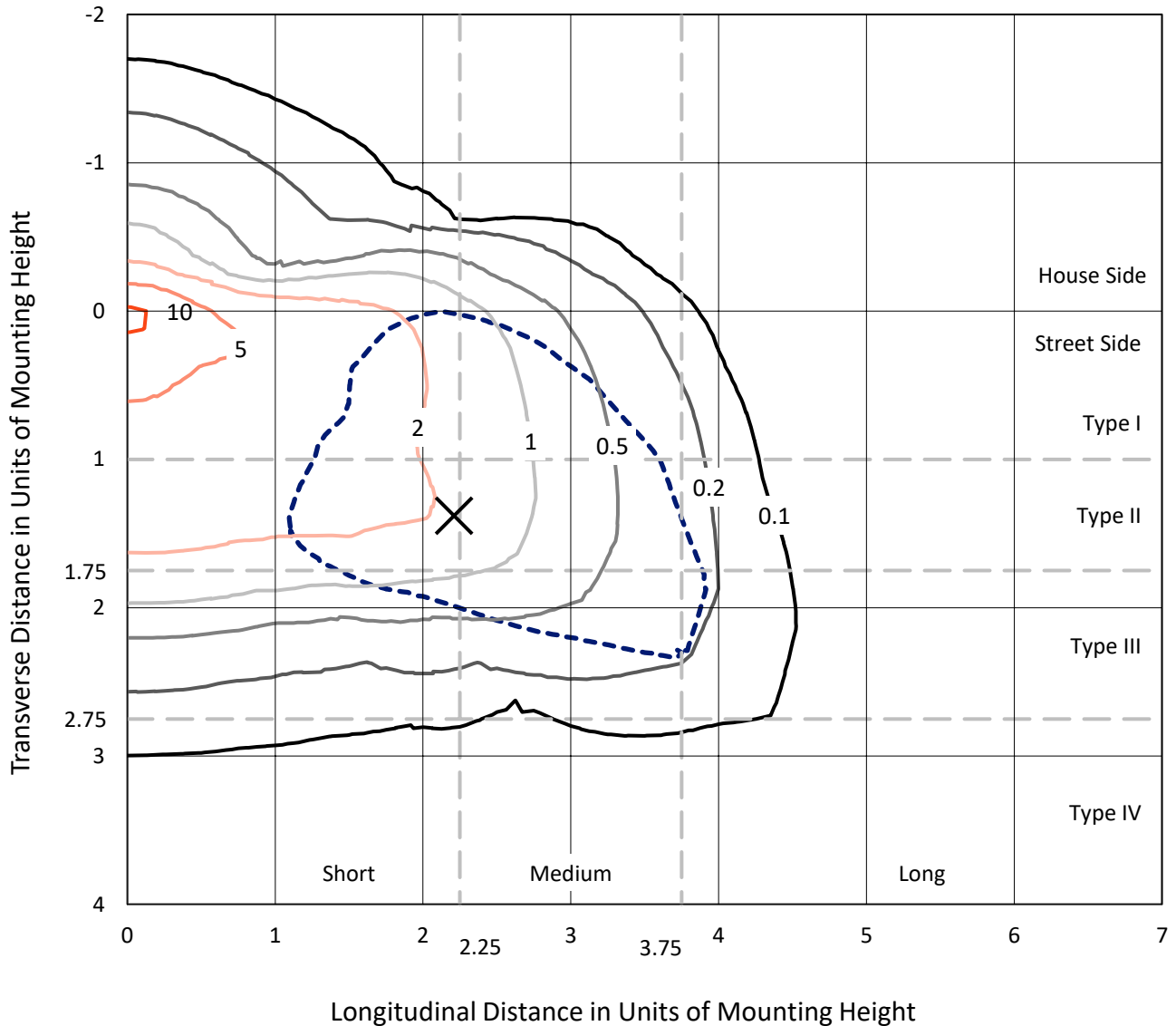
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455216
 CATALOG NUMBER: GALN-SA6B-827-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

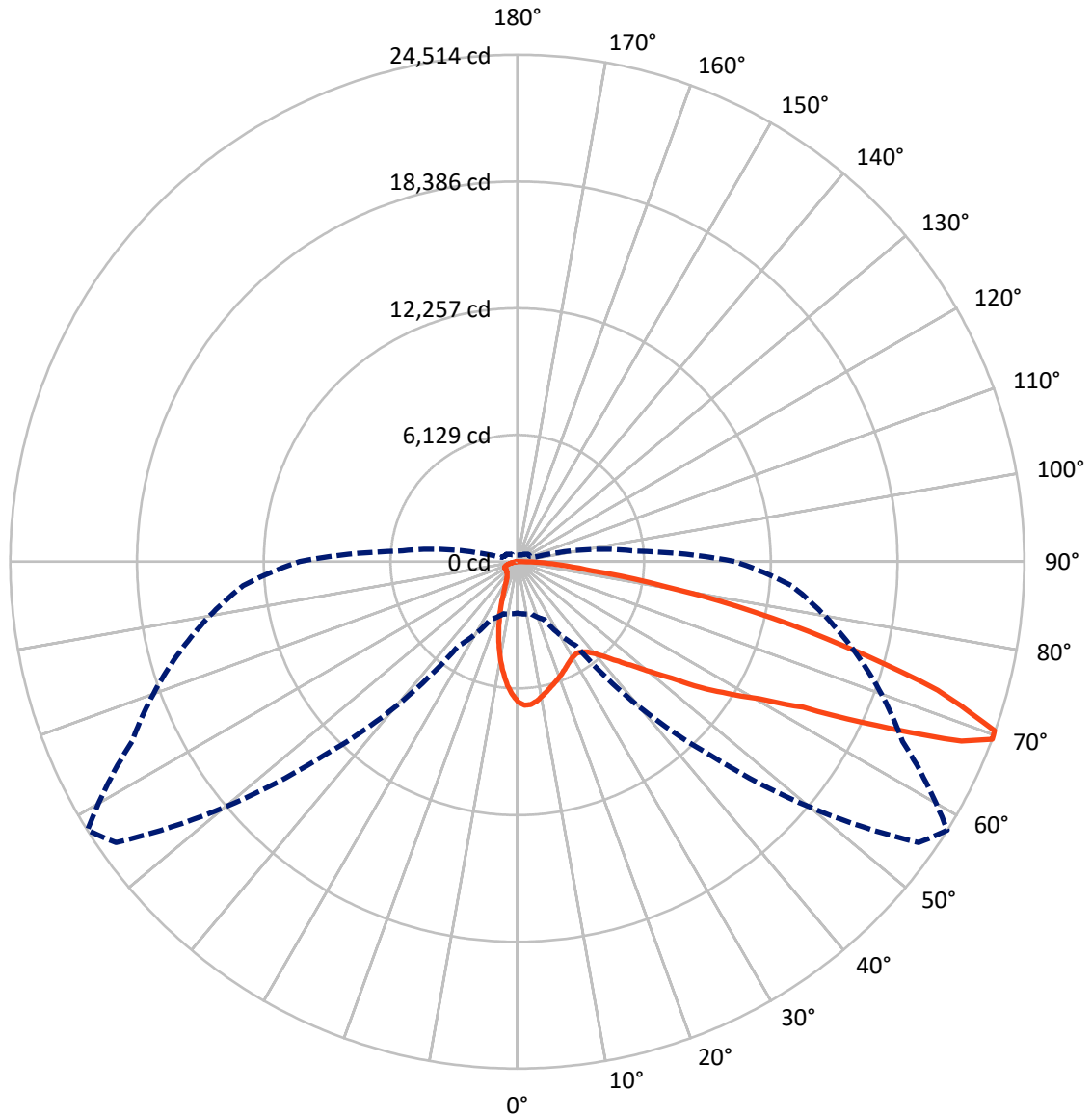
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type III - Short - N/A

REPORT NUMBER: P455216
CATALOG NUMBER: GALN-SA6B-827-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P455216

CATALOG NUMBER: GALN-SA6B-827-U-SL3

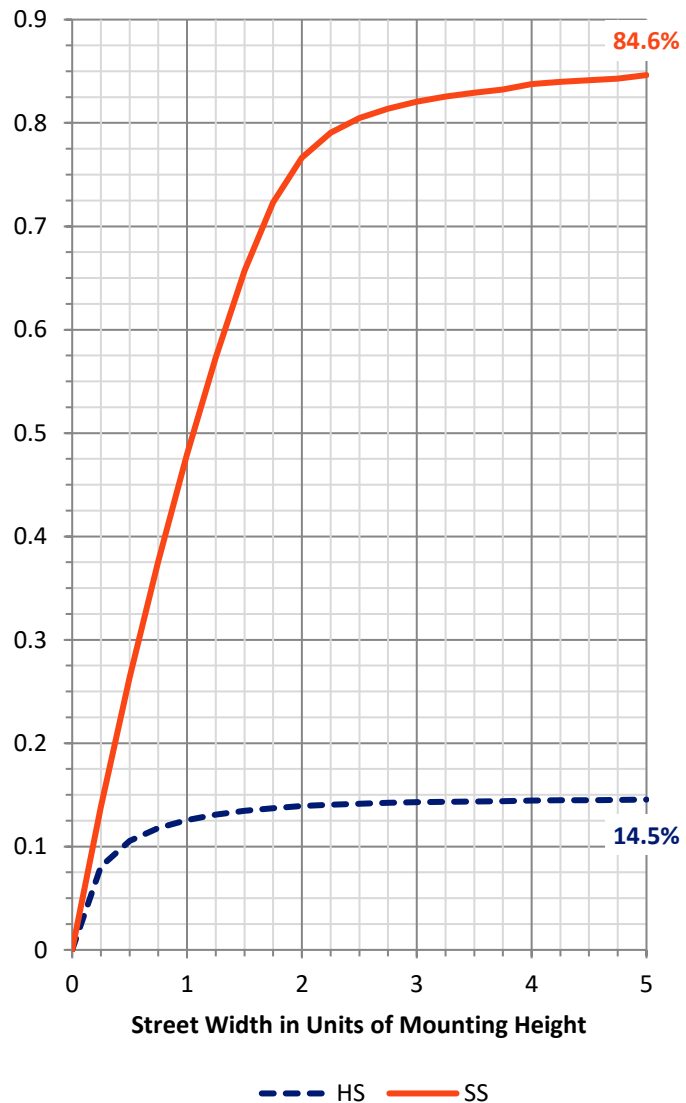
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3602.9	0.0	3602.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	20982.1	0.0	20982.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	24585.0	0.0	24585.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.0	2.3
10°-20°	1266.9	5.2
20°-30°	1636.9	6.7
30°-40°	2126.0	8.6
40°-50°	3090.9	12.6
50°-60°	4932.0	20.1
60°-70°	6588.5	26.8
70°-80°	3798.0	15.4
80°-90°	568.9	2.3
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°	24585.0	100.0
0°-180°	24585.0	100.0



REPORT NUMBER: P455216

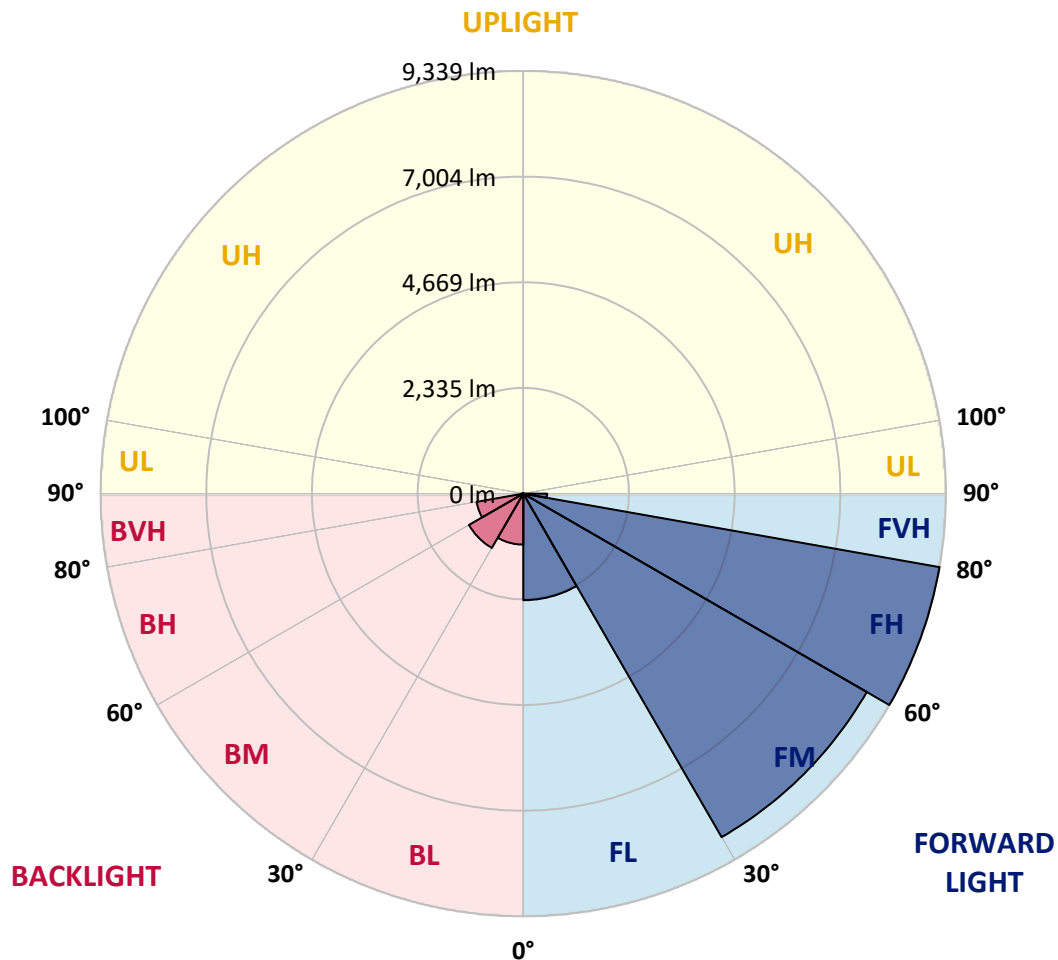
CATALOG NUMBER: GALN-SA6B-827-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2354.6	9.6			
FM	(30°-60°)	8763.3	35.6			
FH	(60°-80°)	9338.9	38.0			G4/12000
FVH	(80°-90°)	525.3	2.1			G4/750
BL	(0°-30°)	1126.1	4.6	B3/2500		
BM	(30°-60°)	1385.6	5.6	B2/2500		
BH	(60°-80°)	1047.7	4.3	B3/2500		G3/2500
BVH	(80°-90°)	43.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





REPORT NUMBER: P455216

CATALOG NUMBER: GALN-SA6B-827-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6793.9	6793.9	6793.9	6793.9	6793.9	6793.9	6793.9	6793.9	6793.9	6793.9	6793.9
2.5°	7046.1	7065.3	7059.9	7053.0	7042.0	7011.9	6962.5	6954.3	6922.7	6855.6	6771.9
5°	6937.8	6954.3	6955.6	6965.2	6979.0	6973.5	6937.8	6933.7	6887.1	6796.6	6656.7
7.5°	6566.3	6588.2	6636.2	6689.7	6737.6	6782.9	6793.9	6800.7	6771.9	6667.7	6481.2
10°	6148.1	6170.0	6191.9	6271.5	6389.4	6501.8	6595.0	6607.4	6614.2	6518.3	6290.7
12.5°	5684.6	5729.9	5776.5	5894.4	6052.1	6229.0	6393.5	6419.5	6466.2	6393.5	6126.1
15°	5291.1	5337.7	5404.9	5510.5	5701.1	5956.1	6187.8	6230.3	6322.2	6285.2	5972.6
17.5°	5018.3	5034.7	5081.3	5202.0	5407.7	5676.4	5986.3	6071.3	6218.0	6208.4	5840.9
20°	4803.0	4823.6	4852.4	4926.4	5140.3	5424.1	5798.4	5908.1	6106.9	6139.8	5710.7
22.5°	4712.5	4727.6	4723.5	4763.2	4908.6	5193.8	5607.8	5738.1	6008.2	6093.2	5590.0
25°	4718.0	4731.7	4711.1	4701.5	4787.9	4990.8	5409.0	5574.9	5928.7	6061.7	5480.3
27.5°	4809.9	4819.5	4781.1	4742.7	4749.5	4864.7	5244.5	5428.2	5861.5	6075.4	5388.5
30°	4933.3	4951.1	4926.4	4879.8	4829.1	4834.5	5138.9	5319.9	5830.0	6123.4	5344.6
32.5°	5092.3	5108.8	5097.8	5060.8	4995.0	4922.3	5112.9	5280.1	5832.7	6220.7	5335.0
35°	5259.6	5292.5	5310.3	5307.6	5254.1	5128.0	5215.7	5354.2	5898.5	6383.9	5391.2
37.5°	5448.8	5476.2	5553.0	5602.4	5553.0	5406.3	5447.4	5543.4	6043.9	6619.7	5514.6
40°	5632.5	5673.7	5786.1	5939.7	5920.5	5791.6	5801.2	5864.2	6300.3	6970.7	5755.9
42.5°	5824.5	5873.8	6069.9	6297.5	6342.8	6242.7	6268.7	6324.9	6665.0	7457.5	6170.0
45°	6071.3	6130.2	6371.6	6655.4	6833.6	6771.9	6846.0	6873.4	7153.1	8090.9	6715.7
47.5°	6389.4	6457.9	6755.5	7109.2	7361.5	7417.7	7546.6	7530.1	7757.7	8840.9	7423.2
50°	6925.5	6963.9	7245.0	7605.6	7952.4	8206.1	8346.0	8372.0	8507.7	9570.4	8214.3
52.5°	7563.0	7597.3	7800.3	8115.6	8550.2	9087.7	9433.2	9348.2	9381.1	10458.8	9139.8
55°	8280.1	8337.7	8466.6	8676.4	9239.9	10031.0	10724.8	10745.4	10380.7	11308.9	10026.9
57.5°	8835.4	8932.8	9153.5	9452.4	10166.8	11079.9	12012.3	12026.0	11559.8	12216.6	11005.9
60°	8555.7	8670.9	9175.5	9903.5	11383.0	12910.4	13550.7	13472.5	12707.5	13250.4	12200.1
62.5°	7349.2	7369.7	8103.3	9241.3	11757.3	15359.2	15840.4	15510.0	14239.0	14561.2	13413.6
65°	4756.4	4890.8	5472.1	7066.7	10527.4	16718.0	19852.3	19088.6	16386.1	16048.9	14429.6
67.5°	3002.7	2968.5	3209.8	4035.2	7240.8	15521.0	23276.0	23155.3	19194.2	16988.1	14186.9
69°	2489.9	2528.3	2610.6	3093.2	4982.6	13251.8	23680.5	24514.1	20555.7	16914.0	13305.3
70°	2258.2	2276.0	2362.4	2742.2	3844.6	11099.1	23016.8	24477.1	21090.4	16604.2	12666.3
72.5°	1792.0	1790.7	1938.8	2281.5	2873.8	6335.9	18899.4	21250.8	20492.6	15161.7	10465.7
75°	1361.5	1383.5	1546.6	1930.5	2647.6	3462.1	13188.7	16365.6	16367.0	11975.3	6530.6
77.5°	981.7	995.4	1186.0	1620.7	2494.1	2806.7	8784.7	11738.1	11034.7	5487.2	2052.6
80°	643.1	651.3	796.6	1283.4	2248.6	2647.6	5208.9	7184.6	5204.7	1456.1	678.7
82.5°	352.4	393.5	486.7	830.9	1804.4	2446.1	3165.9	3636.2	1952.5	648.5	353.7
85°	176.9	187.8	274.2	485.4	1179.2	2023.8	2204.7	2085.5	1007.8	322.2	183.7
87.5°	52.1	65.8	113.8	187.8	478.5	1054.4	1227.1	1101.0	388.0	116.5	38.4
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: P455216
 CATALOG NUMBER: GALN-SA6B-827-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6793.9	6793.9	6793.9	6793.9	6793.9	6793.9	6793.9	6793.9	6793.9	6793.9	6793.9
2.5°	6737.6	6713.0	6603.3	6504.6	6414.1	6318.1	6237.2	6165.9	6172.7	6174.1	6101.4
5°	6584.1	6527.9	6319.5	6124.8	5960.2	5751.8	5573.6	5458.4	5400.8	5324.0	5351.4
7.5°	6375.7	6267.3	5978.0	5654.5	5351.4	5081.3	4787.9	4586.4	4457.5	4332.7	4349.2
10°	6160.4	5986.3	5565.3	5137.6	4745.4	4313.5	3939.2	3618.4	3379.8	3290.7	3231.7
12.5°	5939.7	5710.7	5175.9	4606.9	4065.3	3548.4	3017.8	2673.7	2410.4	2270.6	2288.4
15°	5738.1	5459.8	4770.1	4076.3	3372.9	2757.3	2228.1	1900.4	1716.6	1678.2	1700.2
17.5°	5551.6	5186.9	4390.3	3560.8	2739.5	2067.6	1674.1	1489.0	1415.0	1394.4	1393.0
20°	5359.7	4955.2	3963.9	3009.6	2134.8	1602.8	1373.9	1287.5	1273.8	1282.0	1283.4
22.5°	5165.0	4668.6	3525.1	2462.5	1700.2	1310.8	1201.1	1177.8	1188.8	1207.9	1210.7
25°	4985.4	4416.3	3102.8	1982.6	1357.4	1151.7	1098.3	1098.3	1122.9	1151.7	1153.1
27.5°	4837.3	4172.3	2681.9	1574.0	1136.7	1036.6	1018.7	1028.3	1062.6	1084.5	1085.9
30°	4715.3	3944.7	2284.3	1261.4	999.5	944.7	940.6	957.0	981.7	1002.3	1003.7
32.5°	4623.4	3744.5	1912.7	1059.9	904.9	874.8	873.4	885.7	899.4	904.9	910.4
35°	4587.7	3578.6	1572.7	932.4	841.9	822.7	822.7	821.3	826.8	829.5	832.3
37.5°	4616.5	3451.1	1309.4	850.1	795.2	781.5	773.3	765.1	762.3	762.3	763.7
40°	4738.6	3383.9	1113.3	796.6	762.3	741.8	726.7	717.1	707.5	710.2	713.0
42.5°	4997.7	3396.2	980.3	761.0	733.5	704.8	682.8	671.8	665.0	673.2	671.8
45°	5410.4	3519.6	895.3	736.3	704.8	667.7	647.2	636.2	636.2	648.5	652.6
47.5°	5987.6	3755.5	850.1	717.1	682.8	638.9	618.4	610.1	612.9	633.5	634.8
50°	6692.4	4165.4	841.9	707.5	671.8	618.4	595.1	586.8	593.7	615.6	618.4
52.5°	7469.8	4693.3	881.6	708.9	662.2	606.0	575.9	563.5	570.4	588.2	593.7
55°	8391.2	5354.2	984.5	714.3	648.5	599.2	562.2	534.7	543.0	555.3	556.7
57.5°	9331.8	6187.8	1165.4	715.7	637.6	586.8	538.8	503.2	503.2	511.4	515.5
60°	10480.8	7095.5	1404.0	717.1	638.9	569.0	507.3	467.5	462.1	466.2	467.5
62.5°	11621.5	7855.1	1443.8	713.0	652.6	551.2	473.0	431.9	422.3	420.9	418.2
65°	12124.7	7713.9	1183.3	693.8	667.7	540.2	445.6	397.6	381.2	375.7	375.7
67.5°	11304.8	6525.1	889.9	667.7	658.1	529.2	419.6	368.8	349.6	338.7	338.7
69°	10534.2	5803.9	799.4	649.9	633.5	511.4	403.1	353.7	330.4	318.1	314.0
70°	9939.2	5307.6	761.0	634.8	610.1	490.9	390.8	342.8	316.7	303.0	300.3
72.5°	7931.9	4164.1	666.4	577.2	519.7	412.7	346.9	308.5	283.8	268.7	264.6
75°	4571.3	2256.8	552.6	501.8	418.2	320.8	293.4	268.7	249.5	235.8	231.7
77.5°	1406.8	872.0	400.4	396.3	307.1	248.2	234.5	224.9	211.2	196.1	193.3
80°	592.3	444.2	271.5	267.4	204.3	172.8	168.6	167.3	161.8	149.5	145.3
82.5°	325.0	250.9	189.2	164.5	123.4	100.1	104.2	105.6	101.5	89.1	80.9
85°	159.0	137.1	91.9	74.0	56.2	35.6	34.3	41.1	38.4	27.4	30.2
87.5°	31.5	38.4	24.7	11.0	5.5	0.0	0.0	0.0	0.0	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)