

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: P652003

Luminaire Tested: **GALN-SA7A-840-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652003
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-840-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15665.3 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

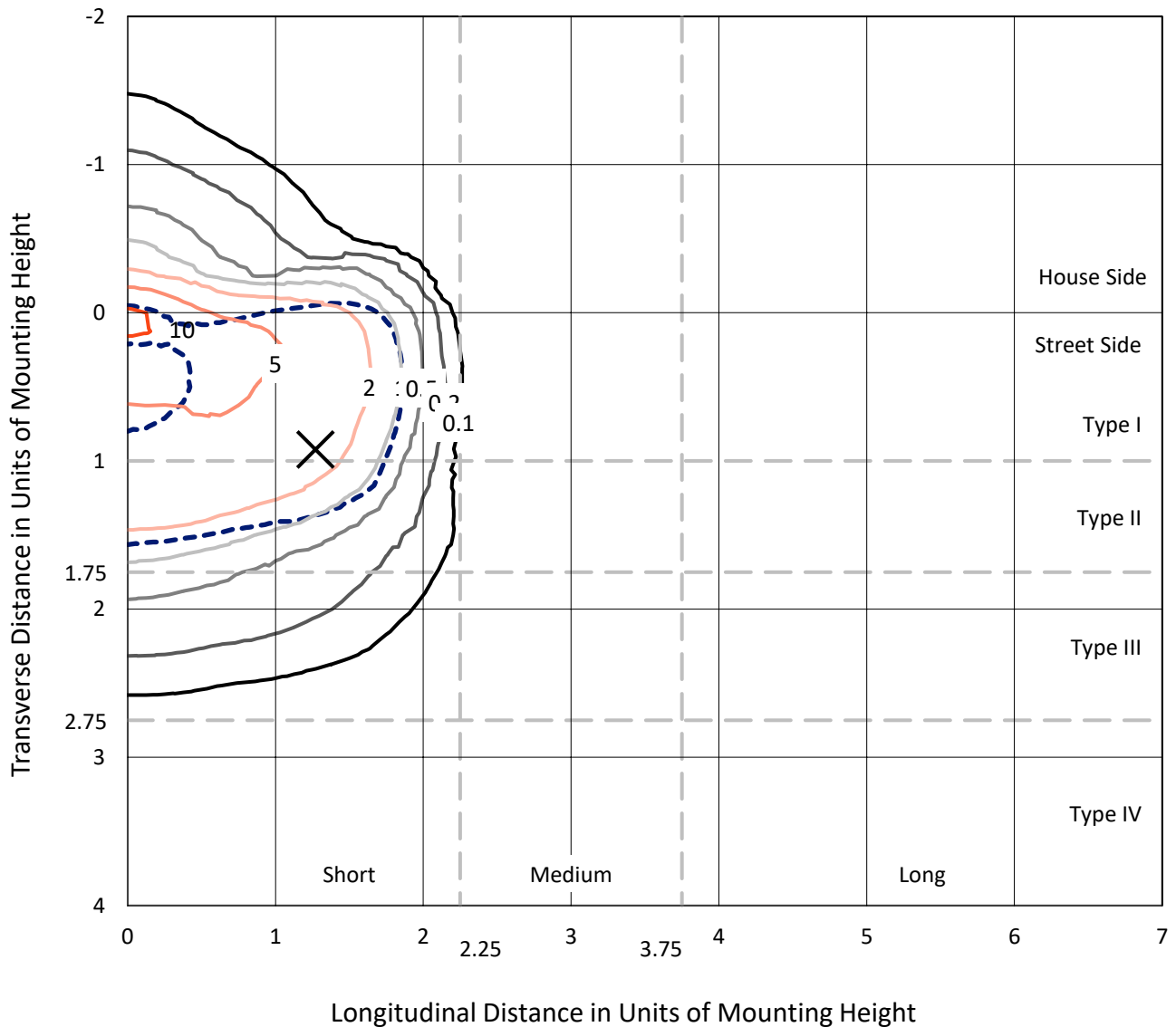
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652003
 CATALOG NUMBER: GALN-SA7A-840-U-SL3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

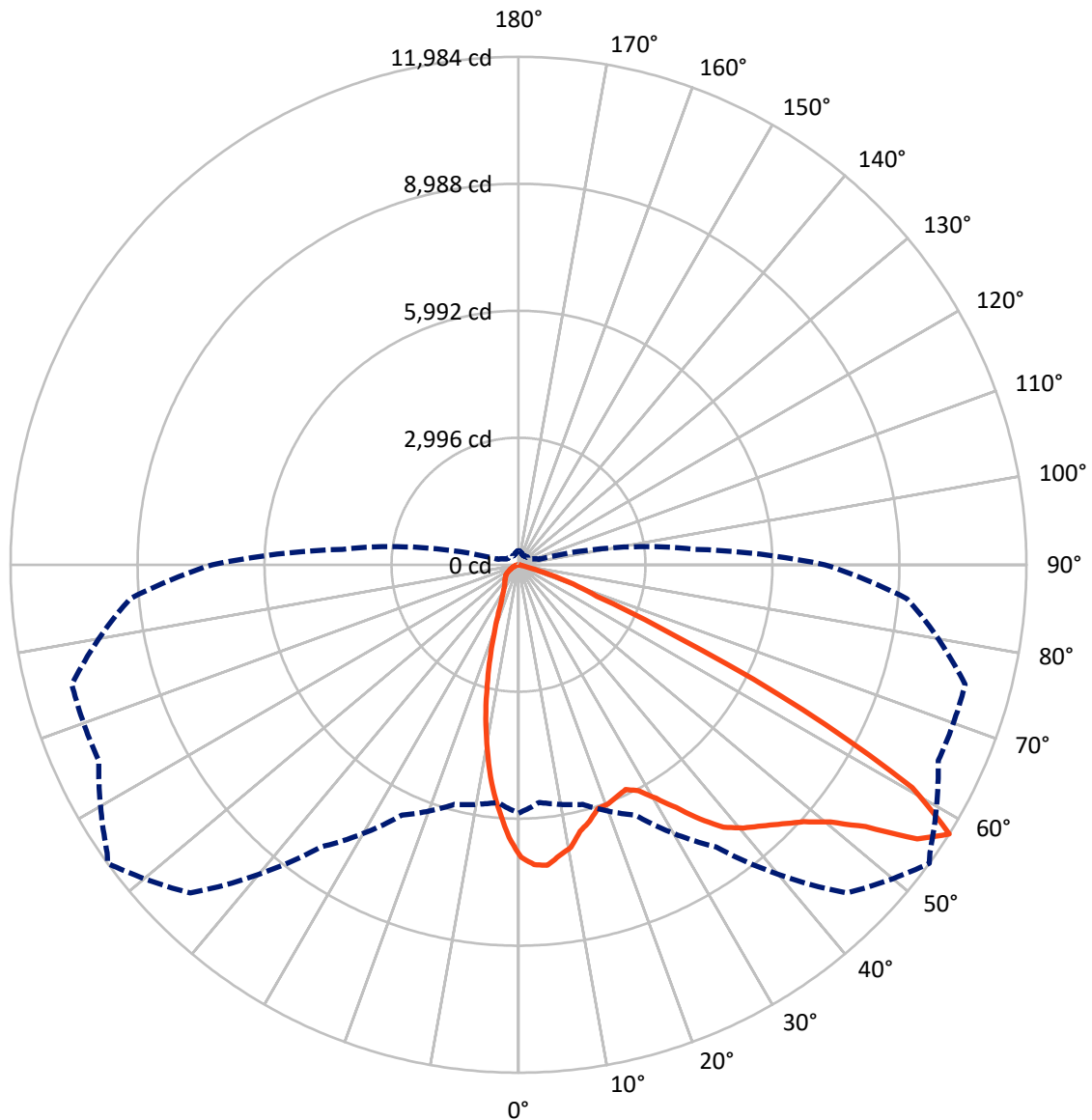
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - N/A

REPORT NUMBER: P652003
CATALOG NUMBER: GALN-SA7A-840-U-SL3-GRSBK

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SA7A-840-U-SL3-GRSBK

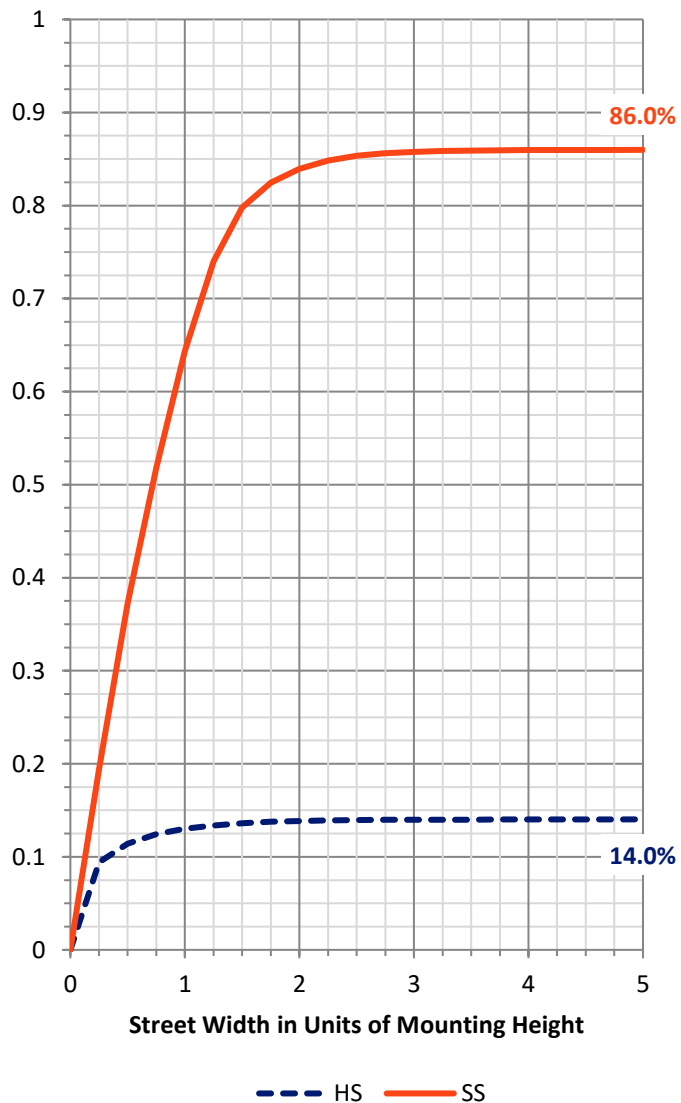
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2213.8	0.0	2213.8
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	13451.5	0.0	13451.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	15665.3	0.0	15665.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.5	3.7
10°-20°	1232.9	7.9
20°-30°	1633.8	10.4
30°-40°	2374.4	15.2
40°-50°	3520.9	22.5
50°-60°	4402.8	28.1
60°-70°	1736.7	11.1
70°-80°	172.9	1.1
80°-90°	13.4	0.1
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°	15665.3	100.0
0°-180°	15665.3	100.0

Coefficient of Utilization

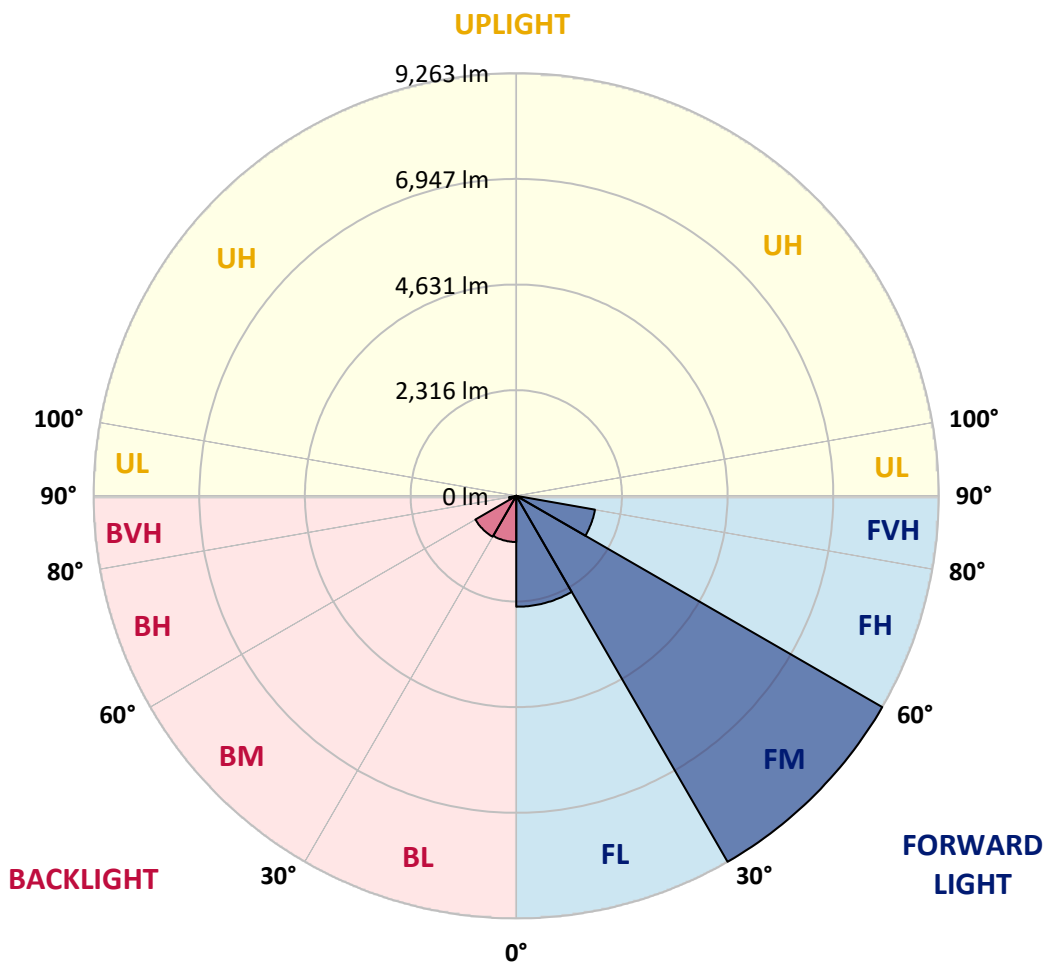


REPORT NUMBER: P652003
 CATALOG NUMBER: GALN-SA7A-840-U-SL3-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2431.7	15.5			
FM (30°-60°)	9262.9	59.1			
FH (60°-80°)	1750.9	11.2			G1/1800
FVH (80°-90°)	6.1	0.0			G0/10
BL (0°-30°)	1012.5	6.5	B3/2500		
BM (30°-60°)	1035.2	6.6	B2/2500		
BH (60°-80°)	158.7	1.0	B1/500		G1/500
BVH (80°-90°)	7.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CATALOG NUMBER: GALN-SA7A-840-U-SL3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6900.7	6900.7	6900.7	6900.7	6900.7	6900.7	6900.7	6900.7	6900.7	6900.7	6900.7
2.5°	7302.7	7227.0	7232.9	7206.6	7171.7	7197.9	7084.3	7110.5	7107.6	6953.2	6851.3
5°	7119.2	7200.8	7116.4	7186.3	7119.2	7192.1	7122.2	7069.7	6985.3	6871.6	6682.3
7.5°	6807.6	6728.9	6752.2	6839.6	6854.2	7017.3	6929.9	6996.9	6962.0	6737.7	6478.4
10°	6181.3	6163.8	6280.3	6396.8	6539.5	6714.4	6781.3	6743.5	6717.2	6632.8	6286.1
12.5°	5700.6	5750.2	5747.2	5939.5	6181.3	6280.3	6455.1	6449.3	6595.0	6437.6	6105.6
15°	5243.3	5269.5	5391.9	5511.3	5779.3	6061.8	6277.4	6306.6	6481.3	6370.7	5965.7
17.5°	4963.7	4925.8	5021.9	5164.7	5438.5	5808.5	6047.3	6117.2	6356.0	6332.7	5805.5
20°	4687.0	4687.0	4765.6	4934.6	5185.0	5601.6	6026.9	6006.5	6356.0	6289.1	5633.6
22.5°	4593.7	4640.3	4660.7	4788.9	5086.0	5444.3	5939.5	5977.4	6405.6	6268.6	5557.9
25°	4721.9	4660.7	4666.5	4768.5	5048.1	5368.6	5875.4	5959.9	6495.9	6370.7	5496.8
27.5°	4742.3	4803.5	4820.9	4890.8	5077.3	5391.9	6035.6	6207.5	6720.2	6609.5	5514.2
30°	4919.9	4981.2	4978.2	5097.6	5225.8	5581.2	6394.0	6428.9	7183.3	6909.5	5622.0
32.5°	5135.6	5199.7	5220.0	5359.9	5461.8	5927.9	6830.9	6921.2	7629.0	7381.5	5904.6
35°	5403.5	5380.2	5473.4	5613.3	5831.7	6434.7	7364.0	7515.4	8109.7	7993.1	6195.8
37.5°	5738.5	5709.4	5799.7	6026.9	6324.0	7034.8	7856.2	7955.3	8459.2	8561.1	6734.7
40°	5974.5	5986.2	6259.9	6565.8	6880.4	7605.8	8167.9	8264.0	8703.9	9091.3	7142.5
42.5°	6367.7	6440.5	6769.7	7142.5	7471.7	8033.9	8421.4	8514.5	8817.5	9516.6	7693.1
45°	6938.7	6906.6	7270.7	7687.2	8051.4	8479.6	8721.3	8689.3	8884.5	9939.0	8039.7
47.5°	7672.7	7678.5	7920.3	8275.7	8654.4	8867.0	9056.4	8942.8	9024.4	10384.7	8502.9
50°	8173.8	8217.4	8412.6	8776.8	8966.1	9292.3	9534.1	9464.2	9438.0	10652.7	8794.2
52.5°	8301.9	8433.0	8537.8	8992.3	9435.0	9950.6	10259.4	10408.0	9941.9	10742.9	9164.1
55°	7334.8	7451.3	7821.3	8444.6	9612.7	10993.5	11418.8	11421.7	10600.2	11144.9	9423.4
57.5°	5863.8	5627.8	5855.0	6516.2	8127.2	10949.8	11983.9	11847.0	10929.4	10909.0	9199.1
60°	4054.8	3996.6	4011.1	4273.3	5624.9	8709.7	10678.8	10856.6	10064.2	9455.4	7282.4
62.5°	3213.0	3163.5	3099.3	3070.2	3492.6	5426.8	7532.9	7783.4	7037.7	6131.7	4317.0
65°	2516.8	2487.7	2496.4	2612.9	2610.0	3079.0	4118.9	4017.0	3215.9	2377.0	1357.5
67.5°	1698.2	1742.0	1776.9	2129.3	2310.0	2144.0	1989.6	1931.3	1045.8	439.8	300.1
70°	955.5	961.3	999.1	1331.2	1753.6	1663.3	1372.0	1372.0	521.4	160.2	171.9
72.5°	521.4	503.9	469.0	573.8	780.7	792.3	611.7	533.1	154.4	104.9	96.1
75°	253.4	250.5	215.5	177.7	169.0	139.9	107.8	99.1	69.9	67.0	58.3
77.5°	52.4	49.5	26.2	26.2	29.1	32.0	40.8	40.8	49.5	49.5	40.8
80°	0.0	0.0	2.9	11.7	20.4	29.1	35.0	35.0	40.8	40.8	32.0
82.5°	0.0	0.0	2.9	8.7	17.5	26.2	32.0	35.0	40.8	43.7	35.0
85°	0.0	0.0	0.0	5.8	14.5	20.4	17.5	17.5	14.5	11.7	5.8
87.5°	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P652003

CATALOG NUMBER: GALN-SA7A-840-U-SL3-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6900.7	6900.7	6900.7	6900.7	6900.7	6900.7	6900.7	6900.7	6900.7	6900.7	6900.7
2.5°	6798.8	6793.0	6659.0	6583.3	6446.3	6326.9	6230.8	6160.9	6160.9	6117.2	6076.4
5°	6606.6	6557.0	6271.6	6088.1	5828.8	5636.6	5505.4	5403.5	5243.3	5287.0	5115.1
7.5°	6367.7	6242.5	5863.8	5584.2	5225.8	4952.0	4672.3	4424.8	4185.9	4078.1	4136.4
10°	6111.4	5892.9	5383.2	4940.4	4494.6	3993.7	3667.4	3271.2	3026.6	3012.0	2947.9
12.5°	5840.5	5592.9	4972.4	4360.7	3775.2	3172.2	2674.1	2304.2	2138.1	1954.6	1989.6
15°	5636.6	5269.5	4515.1	3778.1	3000.4	2391.6	1890.5	1605.0	1447.7	1404.0	1389.5
17.5°	5415.2	5021.9	4049.0	3157.6	2353.6	1721.5	1360.3	1223.4	1162.3	1162.3	1153.5
20°	5185.0	4742.3	3585.9	2580.9	1765.3	1284.6	1089.4	1045.8	1042.8	1039.9	1039.9
22.5°	5033.6	4421.9	3166.4	2050.7	1331.2	1028.3	946.7	929.2	940.9	975.8	975.8
25°	4873.3	4113.1	2703.2	1581.8	1031.2	882.6	836.0	847.6	876.8	908.9	897.2
27.5°	4710.3	3912.1	2266.2	1240.9	844.8	772.0	754.5	780.7	812.7	841.8	833.1
30°	4672.3	3696.5	1852.6	940.9	725.4	672.9	684.6	707.9	739.9	751.5	763.2
32.5°	4730.6	3527.6	1517.7	772.0	632.1	617.5	617.5	629.2	649.6	675.8	667.1
35°	4896.6	3431.4	1200.1	669.9	579.7	565.2	562.2	573.8	585.5	594.3	585.5
37.5°	5150.1	3355.8	981.7	594.3	544.7	521.4	515.6	512.7	524.4	527.2	533.1
40°	5473.4	3396.5	833.1	547.7	509.7	483.6	466.1	466.1	466.1	474.8	477.7
42.5°	5823.0	3451.9	719.5	521.4	477.7	445.6	428.2	422.4	428.2	439.8	437.0
45°	6190.0	3559.6	646.6	480.6	448.6	407.8	384.5	378.7	393.3	416.5	413.6
47.5°	6533.7	3714.0	591.3	454.4	419.5	381.6	352.5	346.7	372.9	404.9	407.8
50°	6877.4	3982.0	571.0	434.0	399.1	355.4	329.2	323.4	352.5	393.3	402.0
52.5°	7273.6	4270.3	556.4	407.8	375.8	335.0	305.9	300.1	332.1	384.5	387.4
55°	7532.9	4515.1	544.7	361.2	332.1	302.9	279.6	276.7	311.7	358.3	370.0
57.5°	7229.9	4174.2	503.9	314.6	282.6	268.0	247.6	247.6	276.7	320.4	329.2
60°	5482.1	2746.9	358.3	253.4	238.8	230.1	221.4	221.4	244.6	276.7	279.6
62.5°	3210.1	1479.7	230.1	203.9	203.9	195.2	180.6	180.6	203.9	221.4	224.3
65°	952.5	474.8	186.4	174.8	171.9	157.3	142.7	139.9	157.3	166.0	163.2
67.5°	273.8	218.5	154.4	145.7	142.7	119.4	110.7	107.8	110.7	104.9	101.9
70°	163.2	148.5	119.4	122.4	107.8	87.4	78.6	75.8	69.9	61.1	55.3
72.5°	90.3	90.3	87.4	93.2	75.8	58.3	49.5	40.8	32.0	26.2	23.3
75°	55.3	58.3	61.1	64.1	49.5	37.8	32.0	20.4	11.7	5.8	5.8
77.5°	37.8	40.8	43.7	46.6	40.8	35.0	26.2	14.5	2.9	0.0	0.0
80°	29.1	32.0	37.8	40.8	43.7	46.6	35.0	14.5	2.9	0.0	0.0
82.5°	32.0	35.0	43.7	40.8	40.8	40.8	32.0	14.5	2.9	0.0	0.0
85°	5.8	8.7	14.5	14.5	20.4	26.2	20.4	5.8	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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)