

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: P456138

Luminaire Tested: **GALN-SA7B-827-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23871 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

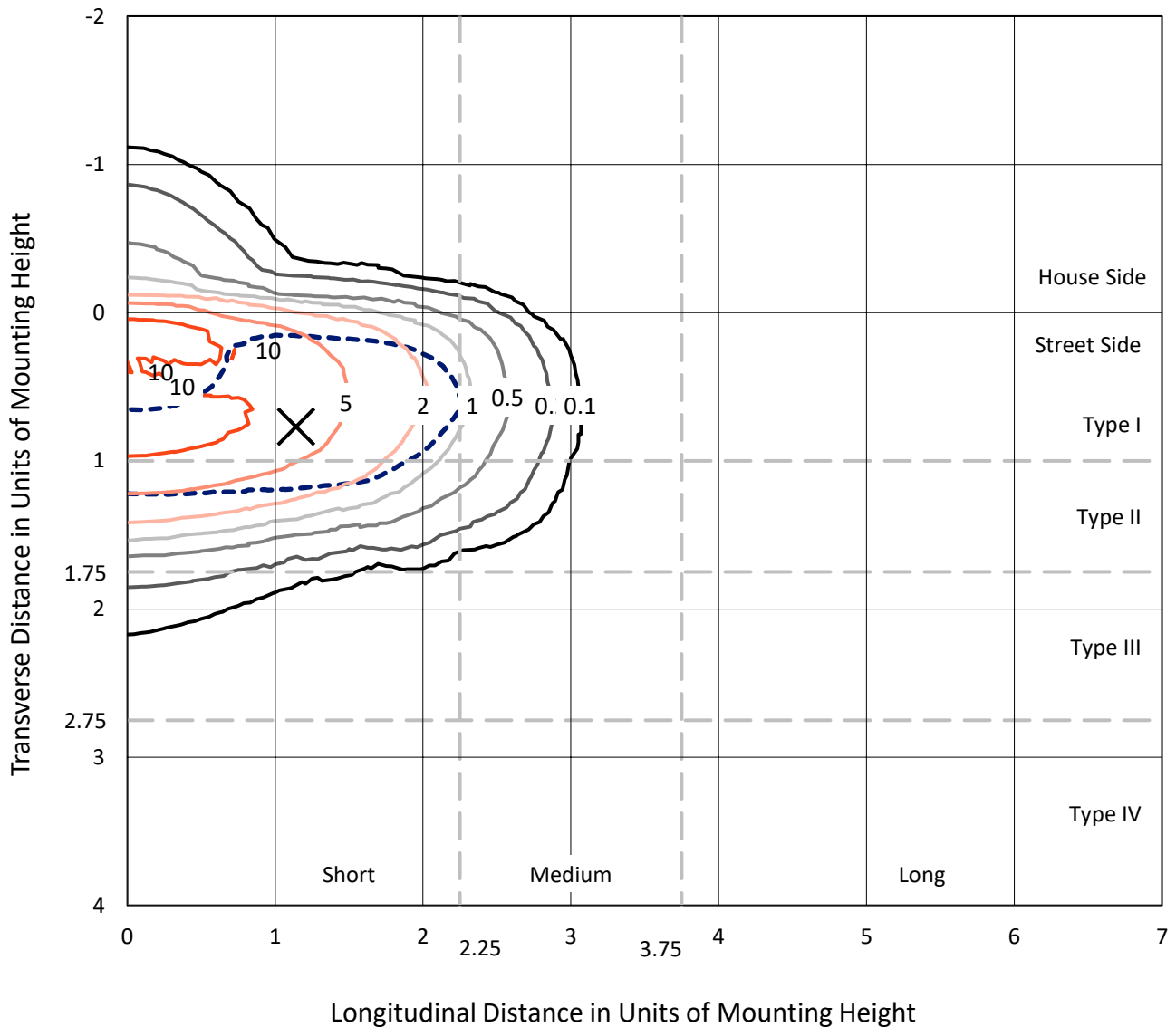
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456138
 CATALOG NUMBER: GALN-SA7B-827-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

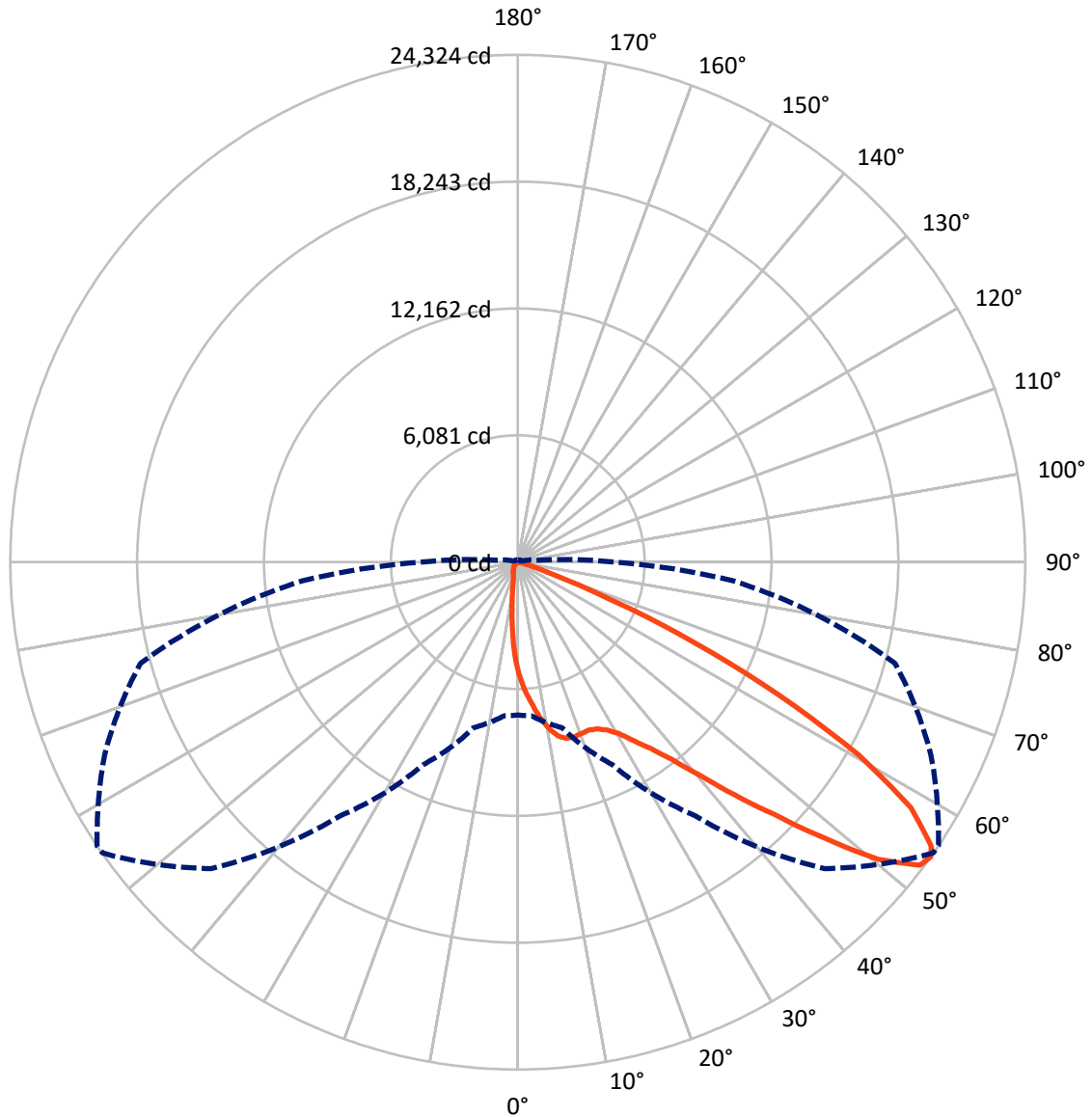
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - N/A

REPORT NUMBER: P456138
CATALOG NUMBER: GALN-SA7B-827-U-AFL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical



REPORT NUMBER: P456138
 CATALOG NUMBER: GALN-SA7B-827-U-AFL-HSS

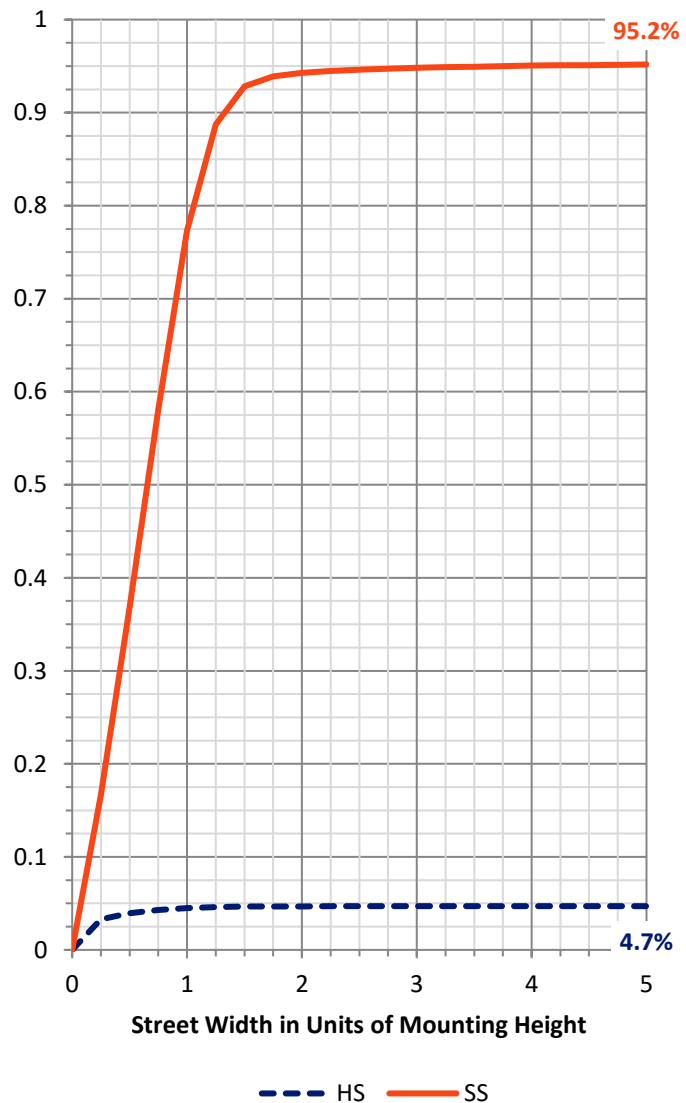
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1128.8	0.0	1128.8
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	22742.2	0.0	22742.2
	% Fixture	95.3	0.0	95.3
Total	Lumens	23871.0	0.0	23871.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.6	2.0
10°-20°	1266.9	5.3
20°-30°	2194.2	9.2
30°-40°	3787.5	15.9
40°-50°	6446.4	27.0
50°-60°	6379.5	26.7
60°-70°	2911.8	12.2
70°-80°	373.9	1.6
80°-90°	42.1	0.2
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°	23871.0	100.0
0°-180°	23871.0	100.0



REPORT NUMBER: P456138

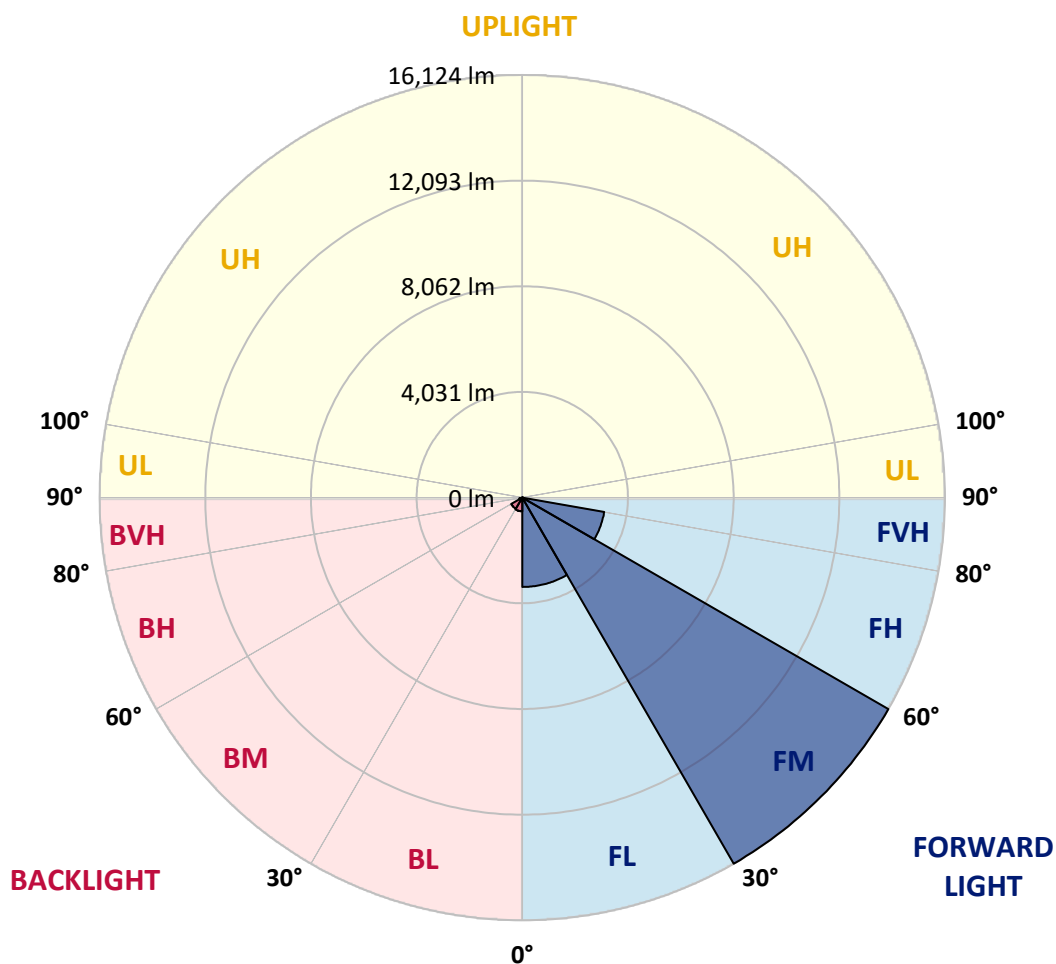
CATALOG NUMBER: GALN-SA7B-827-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3407.7	14.3			
FM (30°-60°)	16124.2	67.5			
FH (60°-80°)	3172.7	13.3			G2/5000
FVH (80°-90°)	37.6	0.2			G1/100
BL (0°-30°)	522.0	2.2	B2/1000		
BM (30°-60°)	489.2	2.0	B1/1000		
BH (60°-80°)	113.0	0.5	B1/500		G1/500
BVH (80°-90°)	4.5	0.0			G0/10
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





REPORT NUMBER: P456138

CATALOG NUMBER: GALN-SA7B-827-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5303.5	5303.5	5303.5	5303.5	5303.5	5303.5	5303.5	5303.5	5303.5	5303.5	5303.5
2.5°	6740.0	6693.3	6628.9	6579.0	6461.4	6292.3	6113.5	6113.5	5941.2	5701.2	5456.4
5°	7774.0	7743.4	7680.6	7551.7	7419.7	7182.9	6823.8	6761.0	6453.4	6018.5	5561.1
7.5°	8194.3	8208.8	8212.1	8178.2	8115.4	7881.9	7526.0	7482.5	6991.3	6408.3	5698.0
10°	7791.7	7862.6	7931.8	8071.9	8270.0	8326.4	8125.1	8080.0	7596.8	6802.8	5846.2
12.5°	7192.6	7231.2	7269.9	7490.5	7888.3	8344.1	8555.1	8553.5	8144.4	7195.8	6034.6
15°	6914.0	6947.8	6951.0	7049.3	7393.9	8057.4	8738.7	8762.9	8679.1	7680.6	6237.6
17.5°	6972.0	6999.3	6976.8	7000.9	7181.3	7741.8	8717.8	8798.3	9112.3	8146.0	6421.2
20°	7350.4	7403.6	7316.6	7249.0	7303.7	7658.0	8646.9	8759.6	9418.3	8600.2	6588.6
22.5°	8030.1	8059.1	7949.5	7764.3	7667.7	7833.6	8627.6	8738.7	9679.2	8972.2	6685.3
25°	8785.4	8775.7	8654.9	8447.2	8244.3	8187.9	8754.8	8854.7	9895.0	9307.2	6714.3
27.5°	9540.7	9569.7	9366.8	9109.1	8865.9	8719.4	9039.9	9113.9	10138.2	9688.9	6749.7
30°	10418.5	10371.8	10172.1	9877.3	9598.7	9394.2	9498.9	9519.8	10473.2	10194.6	6843.1
32.5°	11560.3	11431.5	11207.6	10692.3	10492.6	10146.3	10172.1	10197.8	10880.7	10695.5	6955.8
35°	13109.7	13103.2	12665.1	11971.0	11484.6	11054.6	10941.9	10962.8	11497.5	11439.5	7205.5
37.5°	14974.6	15000.4	14501.1	13802.2	12906.7	12223.9	11991.9	11995.2	12434.8	12467.1	7585.6
40°	16493.4	16561.0	16263.1	15791.2	14907.0	13839.2	13449.5	13414.0	13752.3	13712.0	8128.3
42.5°	17147.2	17210.0	17321.2	17485.4	16999.1	16118.1	15198.5	15246.8	15349.9	15068.0	8737.1
45°	16826.7	16926.6	17363.0	18377.7	18835.1	18538.7	17442.0	17272.9	16836.4	16541.7	9349.1
47.5°	15491.6	15734.8	16464.4	18153.8	19754.7	20756.4	19973.7	19749.8	18324.5	17617.5	9738.8
50°	13296.5	13311.0	14327.2	16486.9	19278.0	22156.0	22558.6	22391.1	19711.2	18221.4	9935.3
52.5°	9639.0	9956.2	10887.1	13388.3	17213.3	21943.4	24206.2	24136.9	21141.3	18530.7	10218.8
54°	7327.9	7389.1	8216.9	10698.7	14841.0	20775.7	24307.6	24323.7	21851.6	18717.5	10386.3
55°	6007.2	5860.7	6730.4	9113.9	13222.4	19743.4	23975.8	24053.2	22170.5	18814.1	10510.3
57.5°	2847.4	2849.0	3514.2	4807.4	8281.3	15330.6	21948.2	22222.0	22205.9	18980.0	10892.0
60°	1441.4	1451.1	1597.6	2219.3	4090.7	10191.4	18147.4	18799.6	20497.1	19004.2	11017.6
62.5°	1008.2	996.9	972.8	1067.8	1721.6	5179.4	13510.7	14077.6	17414.6	18084.6	10618.2
65°	863.2	839.1	771.4	756.9	869.7	2063.1	8415.0	9339.4	13296.5	15659.1	9481.1
67.5°	737.6	728.0	666.8	629.7	615.2	898.7	4342.0	4828.3	9088.2	11255.9	7181.3
70°	626.5	621.7	584.6	537.9	497.7	537.9	1610.5	1995.4	5065.1	6060.4	3388.5
72.5°	508.9	513.8	520.2	460.6	418.7	381.7	687.7	800.4	2119.4	2166.2	1185.3
75°	446.1	441.3	441.3	401.0	349.5	283.5	378.5	407.5	649.0	602.3	275.4
77.5°	314.1	302.8	354.3	330.2	291.5	201.3	215.8	228.7	269.0	230.3	128.8
80°	217.4	217.4	227.1	296.3	262.5	146.6	132.1	141.7	159.4	136.9	74.1
82.5°	122.4	125.6	148.2	157.8	153.0	98.2	87.0	88.6	106.3	93.4	46.7
85°	14.5	24.2	85.4	83.7	62.8	43.5	48.3	49.9	66.0	58.0	27.4
87.5°	1.6	3.2	17.7	22.5	16.1	17.7	17.7	17.7	22.5	25.8	19.3
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: P456138

CATALOG NUMBER: GALN-SA7B-827-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5303.5	5303.5	5303.5	5303.5	5303.5	5303.5	5303.5	5303.5	5303.5	5303.5	5303.5
2.5°	5324.4	5202.0	4910.5	4572.3	4356.5	4005.4	3709.0	3494.8	3441.7	3338.6	3369.2
5°	5317.9	5063.5	4469.2	3841.1	3171.1	2671.9	2299.8	2006.7	1877.9	1792.5	1732.9
7.5°	5321.2	4923.4	3969.9	2969.8	2169.4	1679.8	1335.1	1156.4	1037.2	987.3	993.7
10°	5330.8	4765.5	3390.1	2200.0	1464.0	1085.5	874.5	789.2	748.9	742.5	740.8
12.5°	5353.4	4593.2	2836.1	1633.1	1024.3	789.2	708.6	679.6	666.8	666.8	661.9
15°	5377.5	4403.2	2375.5	1214.3	789.2	678.0	641.0	626.5	618.4	618.4	616.8
17.5°	5377.5	4184.1	1945.5	942.2	679.6	623.3	594.3	575.0	568.5	568.5	566.9
20°	5343.7	3929.7	1563.8	758.6	616.8	571.7	542.7	521.8	513.8	510.5	508.9
22.5°	5226.1	3589.9	1244.9	652.3	565.3	526.6	489.6	465.4	459.0	455.8	457.4
25°	5016.8	3206.5	985.6	573.3	518.6	471.9	439.7	422.0	415.5	415.5	417.1
27.5°	4801.0	2805.5	781.1	513.8	462.2	420.3	394.6	383.3	381.7	386.5	388.1
30°	4601.3	2402.9	632.9	465.4	412.3	376.9	359.1	355.9	355.9	357.5	359.1
32.5°	4379.0	2050.2	529.9	423.6	372.0	341.4	331.8	331.8	335.0	335.0	338.2
35°	4238.9	1747.4	465.4	383.3	341.4	315.7	309.2	310.8	315.7	322.1	325.3
37.5°	4163.2	1505.8	423.6	351.1	312.4	294.7	288.3	291.5	302.8	314.1	315.7
40°	4169.6	1323.8	389.7	323.7	289.9	270.6	265.7	275.4	286.7	297.9	299.6
42.5°	4240.5	1188.6	357.5	291.5	270.6	243.2	241.6	251.2	256.1	267.3	269.0
45°	4324.3	1090.3	323.7	257.7	235.1	211.0	212.6	220.6	227.1	244.8	248.0
47.5°	4350.0	1022.7	285.1	219.0	193.3	185.2	186.8	191.7	204.5	220.6	222.3
50°	4379.0	980.8	248.0	185.2	164.3	162.7	164.3	167.5	175.5	182.0	180.4
52.5°	4503.0	979.2	217.4	161.1	140.1	143.3	144.9	143.3	136.9	127.2	124.0
54°	4619.0	984.0	202.9	149.8	128.8	133.7	132.1	124.0	107.9	98.2	93.4
55°	4712.4	988.9	194.9	141.7	122.4	124.0	125.6	109.5	88.6	78.9	75.7
57.5°	4896.0	977.6	175.5	124.0	107.9	101.5	99.9	72.5	48.3	41.9	38.7
60°	4804.2	882.6	159.4	106.3	91.8	82.1	67.6	40.3	24.2	17.7	17.7
62.5°	4443.4	748.9	141.7	87.0	75.7	62.8	35.4	22.5	11.3	6.4	4.8
65°	3974.8	629.7	127.2	69.3	59.6	40.3	19.3	14.5	4.8	0.0	0.0
67.5°	2955.3	467.1	107.9	54.8	45.1	25.8	12.9	8.1	1.6	0.0	0.0
70°	1368.9	285.1	91.8	41.9	32.2	19.3	9.7	4.8	0.0	0.0	0.0
72.5°	393.0	178.8	75.7	30.6	22.5	16.1	8.1	3.2	1.6	0.0	0.0
75°	136.9	143.3	56.4	22.5	17.7	11.3	6.4	3.2	1.6	0.0	0.0
77.5°	82.1	116.0	35.4	19.3	14.5	9.7	6.4	3.2	1.6	1.6	0.0
80°	46.7	77.3	22.5	16.1	12.9	8.1	4.8	3.2	1.6	1.6	0.0
82.5°	25.8	37.0	17.7	14.5	11.3	8.1	4.8	3.2	1.6	1.6	1.6
85°	20.9	19.3	14.5	12.9	9.7	6.4	4.8	1.6	0.0	0.0	0.0
87.5°	16.1	12.9	12.9	12.9	9.7	6.4	4.8	1.6	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)