

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: P455065

Luminaire Tested: **GALN-SA6B-727-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455065
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-SA6B-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 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: 23120 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

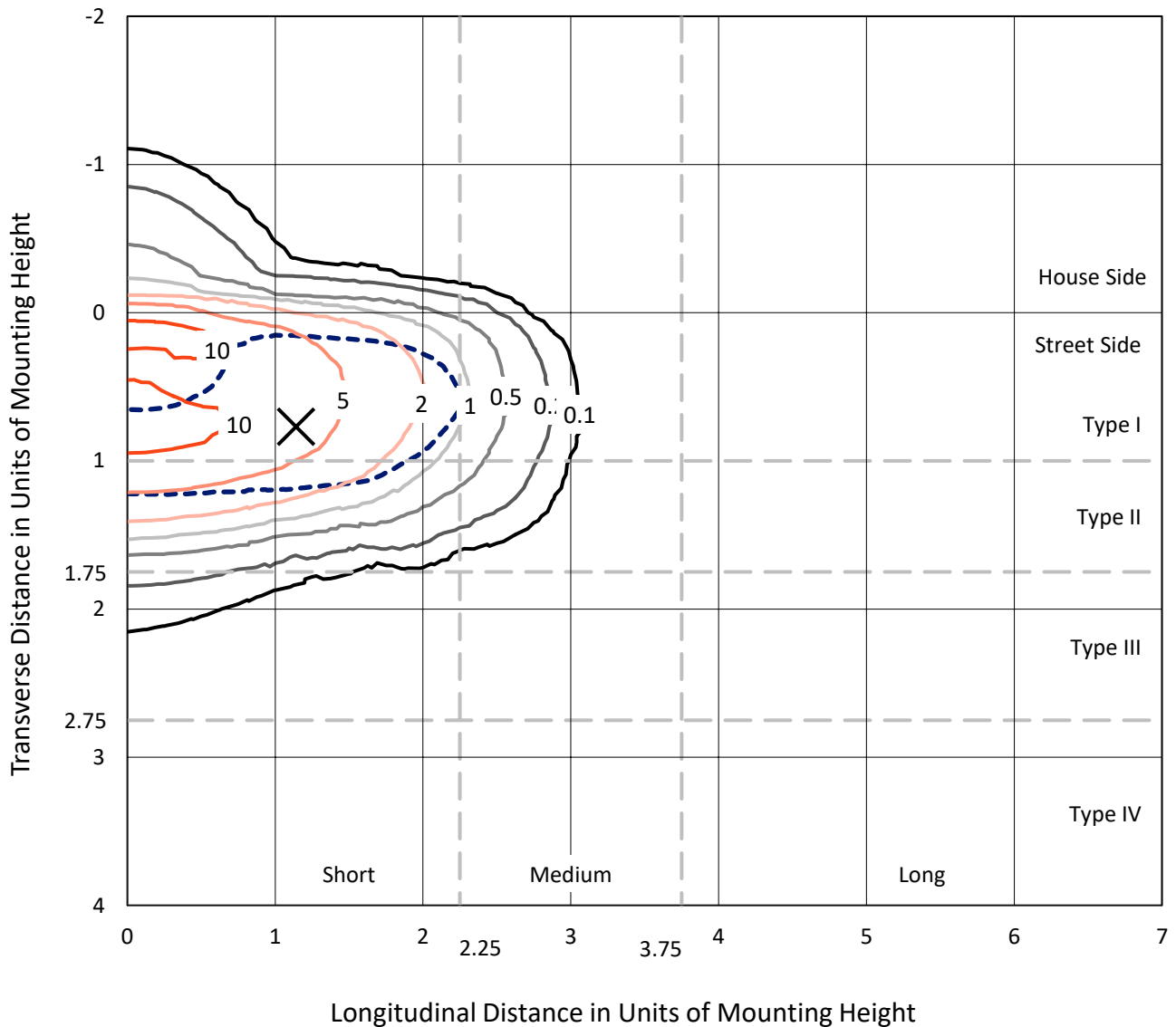
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455065
 CATALOG NUMBER: GALN-SA6B-727-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

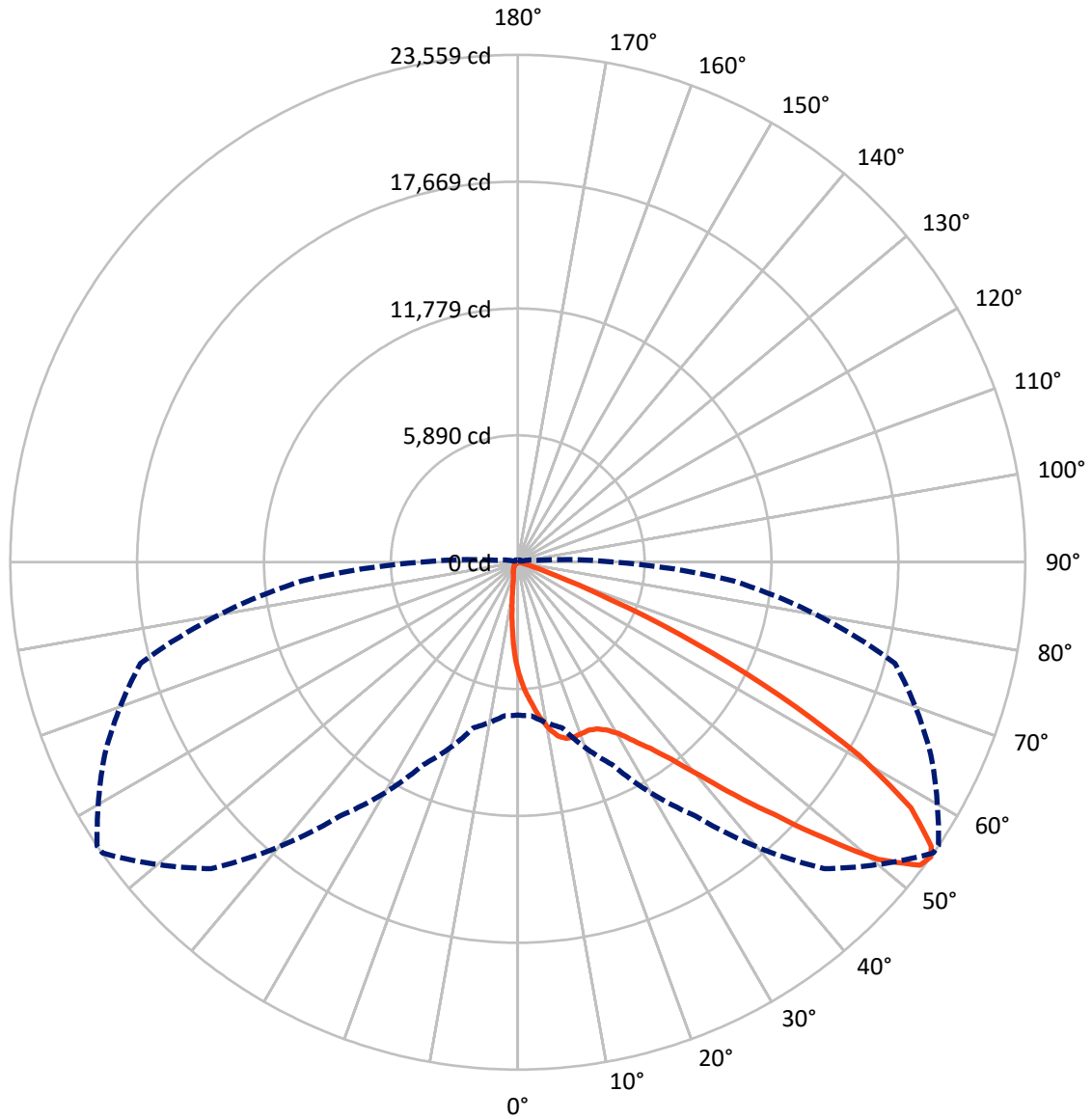
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - N/A

REPORT NUMBER: P455065
CATALOG NUMBER: GALN-SA6B-727-U-AFL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P455065

CATALOG NUMBER: GALN-SA6B-727-U-AFL-HSS

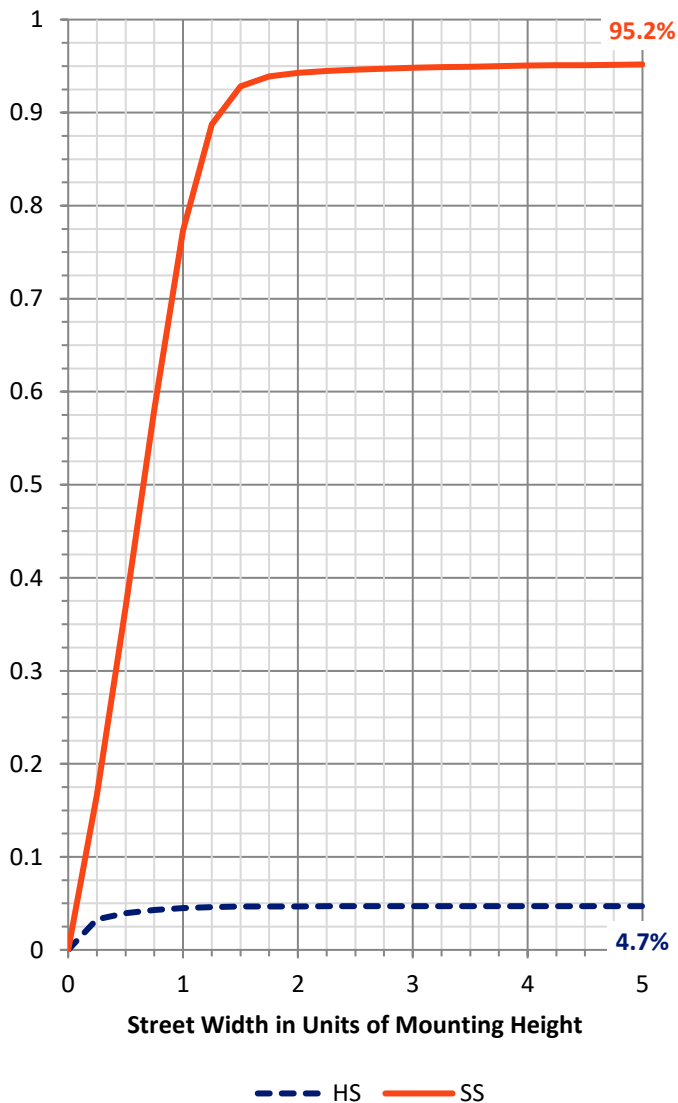
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1093.3	0.0	1093.3
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	22026.7	0.0	22026.7
	% Fixture	95.3	0.0	95.3
Total	Lumens	23120.0	0.0	23120.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.9	2.0
10°-20°	1227.1	5.3
20°-30°	2125.1	9.2
30°-40°	3668.3	15.9
40°-50°	6243.6	27.0
50°-60°	6178.8	26.7
60°-70°	2820.2	12.2
70°-80°	362.2	1.6
80°-90°	40.8	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°	23120.0	100.0
0°-180°	23120.0	100.0



REPORT NUMBER: P455065

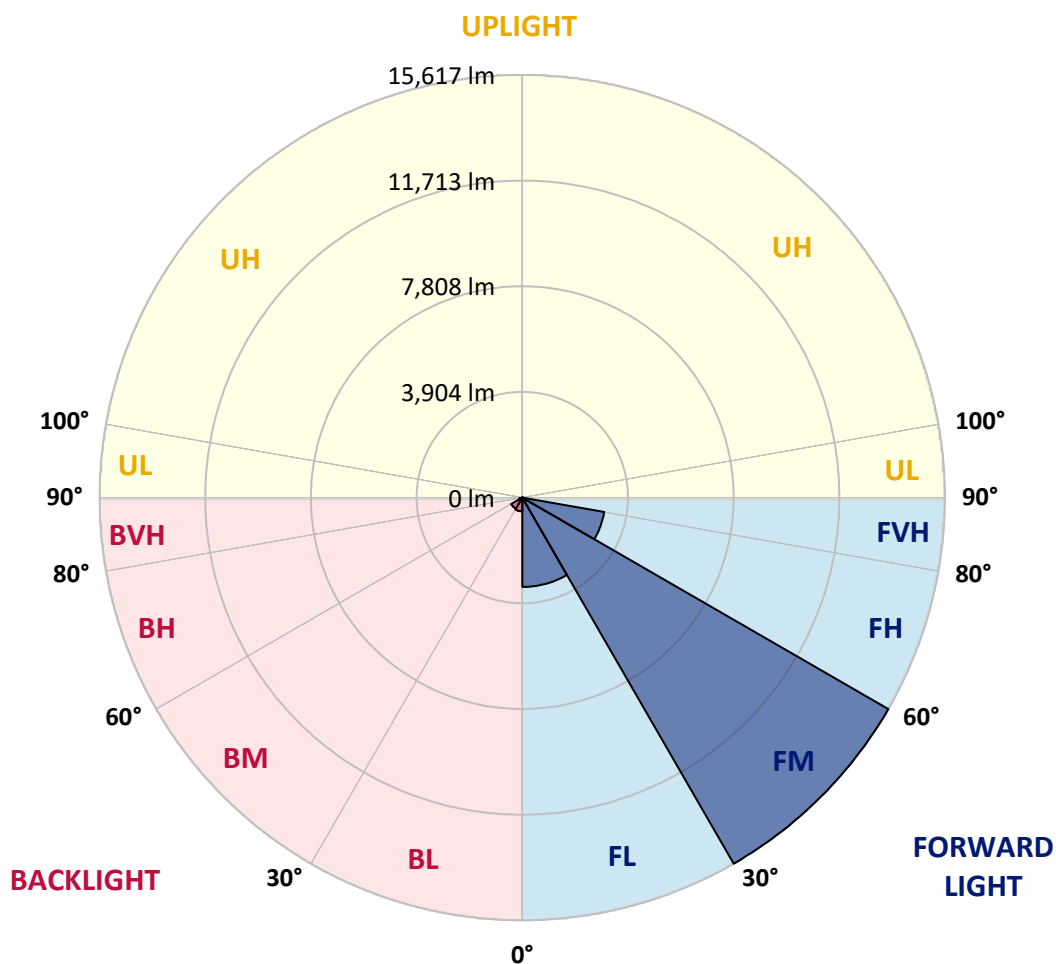
CATALOG NUMBER: GALN-SA6B-727-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3300.5	14.3			
FM (30°-60°)	15617.0	67.5			
FH (60°-80°)	3072.9	13.3			G2/5000
FVH (80°-90°)	36.4	0.2			G1/100
BL (0°-30°)	505.6	2.2	B2/1000		
BM (30°-60°)	473.8	2.0	B1/1000		
BH (60°-80°)	109.5	0.5	B0/110		G0/110
BVH (80°-90°)	4.4	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: P455065

CATALOG NUMBER: GALN-SA6B-727-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5136.6	5136.6	5136.6	5136.6	5136.6	5136.6	5136.6	5136.6	5136.6	5136.6	5136.6
2.5°	6528.0	6482.8	6420.4	6372.0	6258.1	6094.3	5921.2	5921.2	5754.3	5521.9	5284.8
5°	7529.4	7499.8	7438.9	7314.2	7186.2	6956.9	6609.1	6548.3	6250.3	5829.2	5386.2
7.5°	7936.5	7950.6	7953.7	7920.9	7860.1	7633.9	7289.2	7247.1	6771.3	6206.7	5518.8
10°	7546.6	7615.2	7682.3	7818.0	8009.9	8064.4	7869.5	7825.8	7357.8	6588.8	5662.3
12.5°	6966.3	7003.7	7041.2	7254.9	7640.2	8081.6	8285.9	8284.4	7888.2	6969.4	5844.8
15°	6696.5	6729.2	6732.3	6827.5	7161.3	7803.9	8463.8	8487.2	8406.1	7438.9	6041.3
17.5°	6752.6	6779.1	6757.3	6780.7	6955.4	7498.2	8443.5	8521.5	8825.7	7889.7	6219.1
20°	7119.2	7170.6	7086.4	7020.9	7073.9	7417.1	8374.9	8484.0	9122.0	8329.6	6381.4
22.5°	7777.4	7805.5	7699.4	7520.1	7426.5	7587.1	8356.1	8463.8	9374.7	8689.9	6475.0
25°	8509.0	8499.6	8382.7	8181.4	7984.9	7930.3	8479.4	8576.1	9583.7	9014.4	6503.0
27.5°	9240.6	9268.7	9072.1	8822.5	8587.0	8445.0	8755.5	8827.2	9819.3	9384.1	6537.3
30°	10090.7	10045.5	9852.0	9566.6	9296.7	9098.6	9200.0	9220.3	10143.7	9873.9	6627.8
32.5°	11196.6	11071.8	10855.0	10355.9	10162.4	9827.1	9852.0	9877.0	10538.4	10359.0	6737.0
35°	12697.2	12691.0	12266.7	11594.4	11123.3	10706.8	10597.6	10617.9	11135.8	11079.6	6978.8
37.5°	14503.5	14528.5	14044.9	13367.9	12500.7	11839.3	11614.7	11617.8	12043.6	12074.8	7346.9
40°	15974.5	16040.0	15751.4	15294.4	14438.0	13403.8	13026.3	12992.0	13319.6	13280.6	7872.6
42.5°	16607.8	16668.6	16776.2	16935.3	16464.3	15611.0	14720.3	14767.1	14867.0	14594.0	8462.2
45°	16297.4	16394.1	16816.8	17799.5	18242.5	17955.5	16893.2	16729.4	16306.7	16021.3	9055.0
47.5°	15004.2	15239.8	15946.4	17582.7	19133.2	20103.4	19345.3	19128.5	17748.0	17063.2	9432.4
50°	12878.2	12892.2	13876.5	15968.2	18671.5	21458.9	21848.9	21686.7	19091.1	17648.2	9622.7
52.5°	9335.7	9643.0	10544.6	12967.1	16671.7	21253.0	23444.6	23377.5	20476.2	17947.7	9897.3
54°	7097.3	7156.6	7958.4	10362.1	14374.1	20122.1	23542.9	23558.5	21164.1	18128.6	10059.5
55°	5818.3	5676.3	6518.6	8827.2	12806.4	19122.3	23221.5	23296.4	21473.0	18222.2	10179.6
57.5°	2757.8	2759.4	3403.6	4656.2	8020.8	14848.3	21257.7	21522.9	21507.3	18382.9	10549.3
60°	1396.1	1405.4	1547.4	2149.5	3962.0	9870.8	17576.4	18208.2	19852.3	18406.3	10671.0
62.5°	976.5	965.5	942.2	1034.2	1667.5	5016.5	13085.6	13634.7	16866.7	17515.6	10284.1
65°	836.1	812.7	747.2	733.1	842.3	1998.2	8150.2	9045.6	12878.2	15166.5	9182.9
67.5°	714.4	705.1	645.8	609.9	595.9	870.4	4205.4	4676.4	8802.3	10901.8	6955.4
70°	606.8	602.1	566.2	521.0	482.0	521.0	1559.9	1932.7	4905.7	5869.7	3281.9
72.5°	492.9	497.6	503.8	446.1	405.6	369.7	666.1	775.2	2052.8	2098.0	1148.1
75°	432.1	427.4	427.4	388.4	338.5	274.5	366.6	394.6	628.6	583.4	266.7
77.5°	304.2	293.3	343.2	319.8	282.3	195.0	209.0	221.5	260.5	223.1	124.8
80°	210.6	210.6	219.9	287.0	254.3	141.9	127.9	137.3	154.4	132.6	71.8
82.5°	118.5	121.7	143.5	152.9	148.2	95.2	84.2	85.8	103.0	90.5	45.2
85°	14.0	23.4	82.7	81.1	60.8	42.1	46.8	48.4	64.0	56.2	26.5
87.5°	1.6	3.1	17.2	21.8	15.6	17.2	17.2	17.2	21.8	25.0	18.7
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: P455065
 CATALOG NUMBER: GALN-SA6B-727-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5136.6	5136.6	5136.6	5136.6	5136.6	5136.6	5136.6	5136.6	5136.6	5136.6	5136.6
2.5°	5156.9	5038.3	4756.0	4428.4	4219.4	3879.4	3592.3	3384.9	3333.4	3233.6	3263.2
5°	5150.6	4904.2	4328.6	3720.3	3071.4	2587.8	2227.5	1943.6	1818.8	1736.1	1678.4
7.5°	5153.8	4768.5	3845.0	2876.4	2101.1	1626.9	1293.1	1120.0	1004.5	956.2	962.4
10°	5163.1	4615.6	3283.5	2130.8	1417.9	1051.3	847.0	764.3	725.3	719.1	717.5
12.5°	5185.0	4448.7	2746.9	1581.7	992.1	764.3	686.3	658.3	645.8	645.8	641.1
15°	5208.4	4264.6	2300.8	1176.1	764.3	656.7	620.8	606.8	599.0	599.0	597.4
17.5°	5208.4	4052.5	1884.3	912.5	658.3	603.7	575.6	556.9	550.6	550.6	549.1
20°	5175.6	3806.0	1514.6	734.7	597.4	553.7	525.7	505.4	497.6	494.5	492.9
22.5°	5061.7	3476.9	1205.8	631.7	547.5	510.1	474.2	450.8	444.6	441.4	443.0
25°	4858.9	3105.7	954.6	555.3	502.3	457.0	425.8	408.7	402.4	402.4	404.0
27.5°	4649.9	2717.3	756.5	497.6	447.7	407.1	382.2	371.2	369.7	374.4	375.9
30°	4456.5	2327.3	613.0	450.8	399.3	365.0	347.8	344.7	344.7	346.3	347.8
32.5°	4241.2	1985.7	513.2	410.2	360.3	330.7	321.3	321.3	324.4	324.4	327.6
35°	4105.5	1692.4	450.8	371.2	330.7	305.7	299.5	301.1	305.7	312.0	315.1
37.5°	4032.2	1458.5	410.2	340.0	302.6	285.5	279.2	282.3	293.3	304.2	305.7
40°	4038.5	1282.2	377.5	313.5	280.8	262.1	257.4	266.7	277.7	288.6	290.1
42.5°	4107.1	1151.2	346.3	282.3	262.1	235.5	234.0	243.3	248.0	258.9	260.5
45°	4188.2	1056.0	313.5	249.6	227.7	204.3	205.9	213.7	219.9	237.1	240.2
47.5°	4213.2	990.5	276.1	212.1	187.2	179.4	180.9	185.6	198.1	213.7	215.3
50°	4241.2	950.0	240.2	179.4	159.1	157.5	159.1	162.2	170.0	176.3	174.7
52.5°	4361.4	948.4	210.6	156.0	135.7	138.8	140.4	138.8	132.6	123.2	120.1
54°	4473.7	953.1	196.5	145.1	124.8	129.5	127.9	120.1	104.5	95.2	90.5
55°	4564.1	957.8	188.7	137.3	118.5	120.1	121.7	106.1	85.8	76.4	73.3
57.5°	4742.0	946.8	170.0	120.1	104.5	98.3	96.7	70.2	46.8	40.6	37.4
60°	4653.0	854.8	154.4	103.0	88.9	79.6	65.5	39.0	23.4	17.2	17.2
62.5°	4303.6	725.3	137.3	84.2	73.3	60.8	34.3	21.8	10.9	6.2	4.7
65°	3849.7	609.9	123.2	67.1	57.7	39.0	18.7	14.0	4.7	0.0	0.0
67.5°	2862.3	452.4	104.5	53.0	43.7	25.0	12.5	7.8	1.6	0.0	0.0
70°	1325.9	276.1	88.9	40.6	31.2	18.7	9.4	4.7	0.0	0.0	0.0
72.5°	380.6	173.1	73.3	29.6	21.8	15.6	7.8	3.1	1.6	0.0	0.0
75°	132.6	138.8	54.6	21.8	17.2	10.9	6.2	3.1	1.6	0.0	0.0
77.5°	79.6	112.3	34.3	18.7	14.0	9.4	6.2	3.1	1.6	1.6	0.0
80°	45.2	74.9	21.8	15.6	12.5	7.8	4.7	3.1	1.6	1.6	0.0
82.5°	25.0	35.9	17.2	14.0	10.9	7.8	4.7	3.1	1.6	1.6	1.6
85°	20.3	18.7	14.0	12.5	9.4	6.2	4.7	1.6	0.0	0.0	0.0
87.5°	15.6	12.5	12.5	12.5	9.4	6.2	4.7	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)