

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: P455777

Luminaire Tested: **GALN-SA7A-727-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21327 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

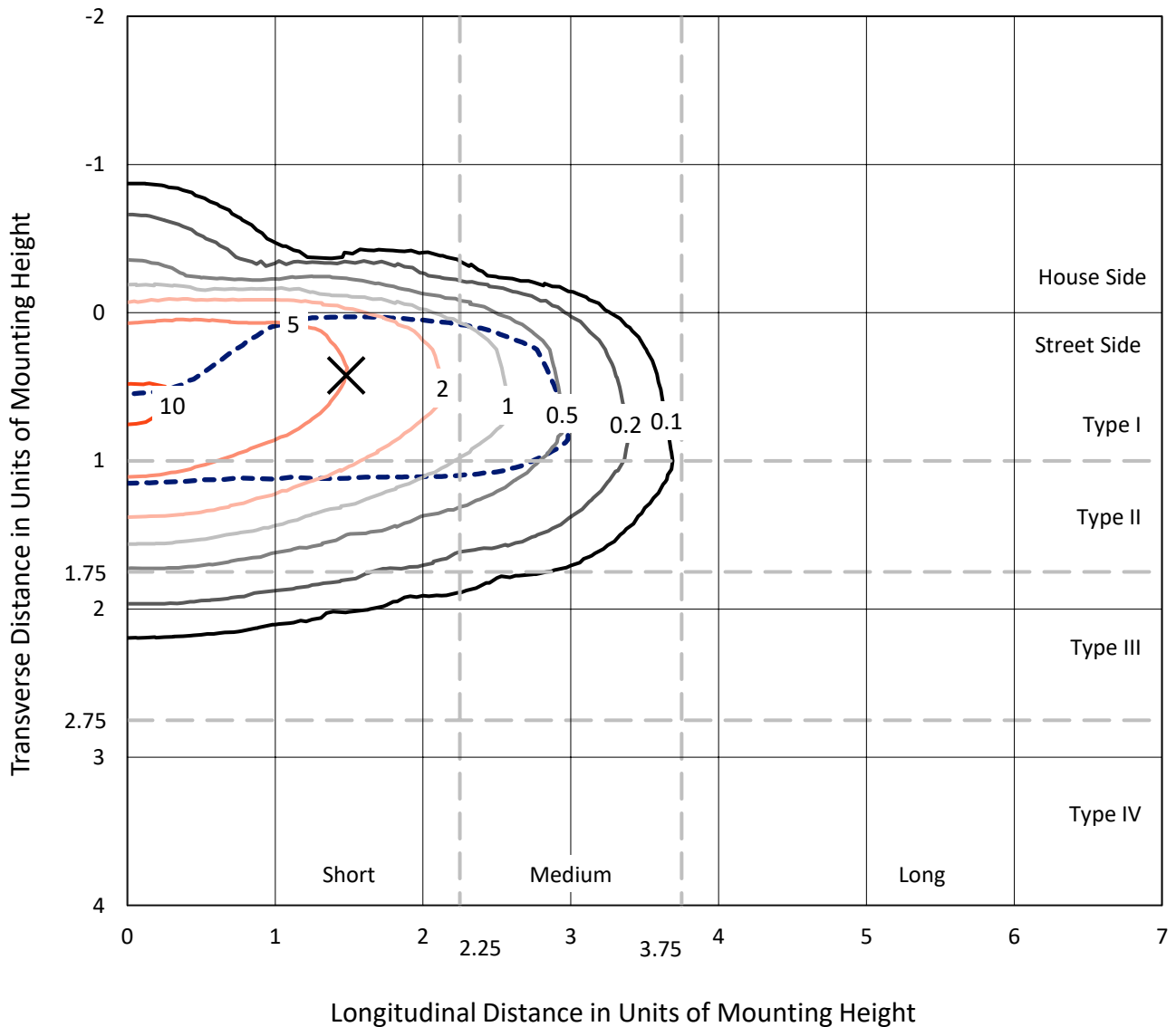
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

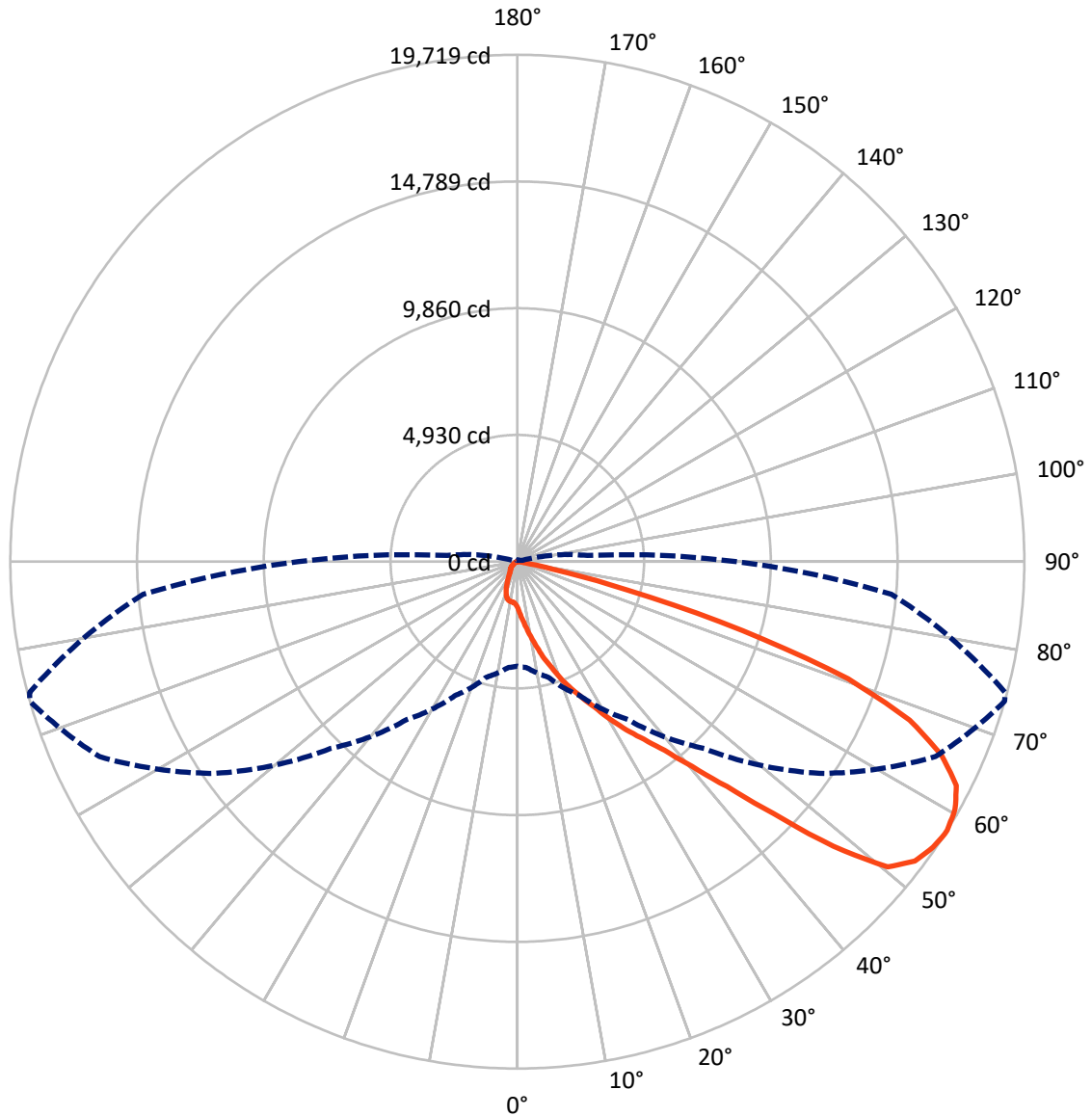
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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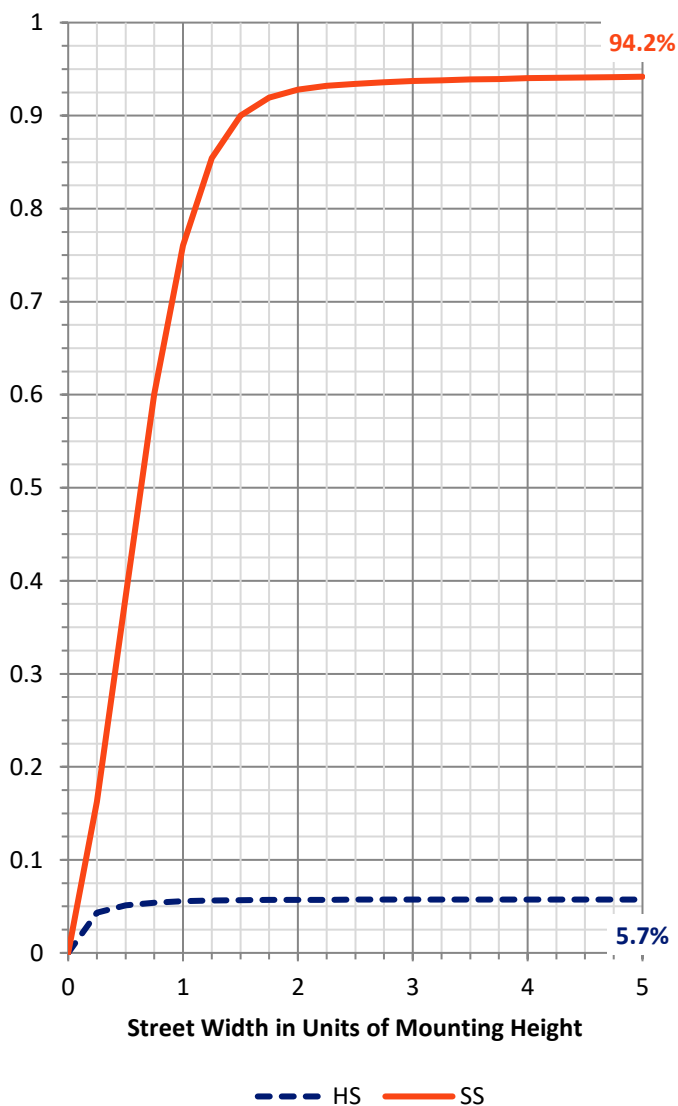
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1230.1	0.0	1230.1
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	20096.9	0.0	20096.9
	% Fixture	94.2	0.0	94.2
Total	Lumens	21327.0	0.0	21327.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.6	1.0
10°-20°	849.8	4.0
20°-30°	1818.3	8.5
30°-40°	3342.0	15.7
40°-50°	5123.3	24.0
50°-60°	5419.8	25.4
60°-70°	3539.2	16.6
70°-80°	967.0	4.5
80°-90°	52.1	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°	21327.0	100.0
0°-180°	21327.0	100.0

Coefficient of Utilization



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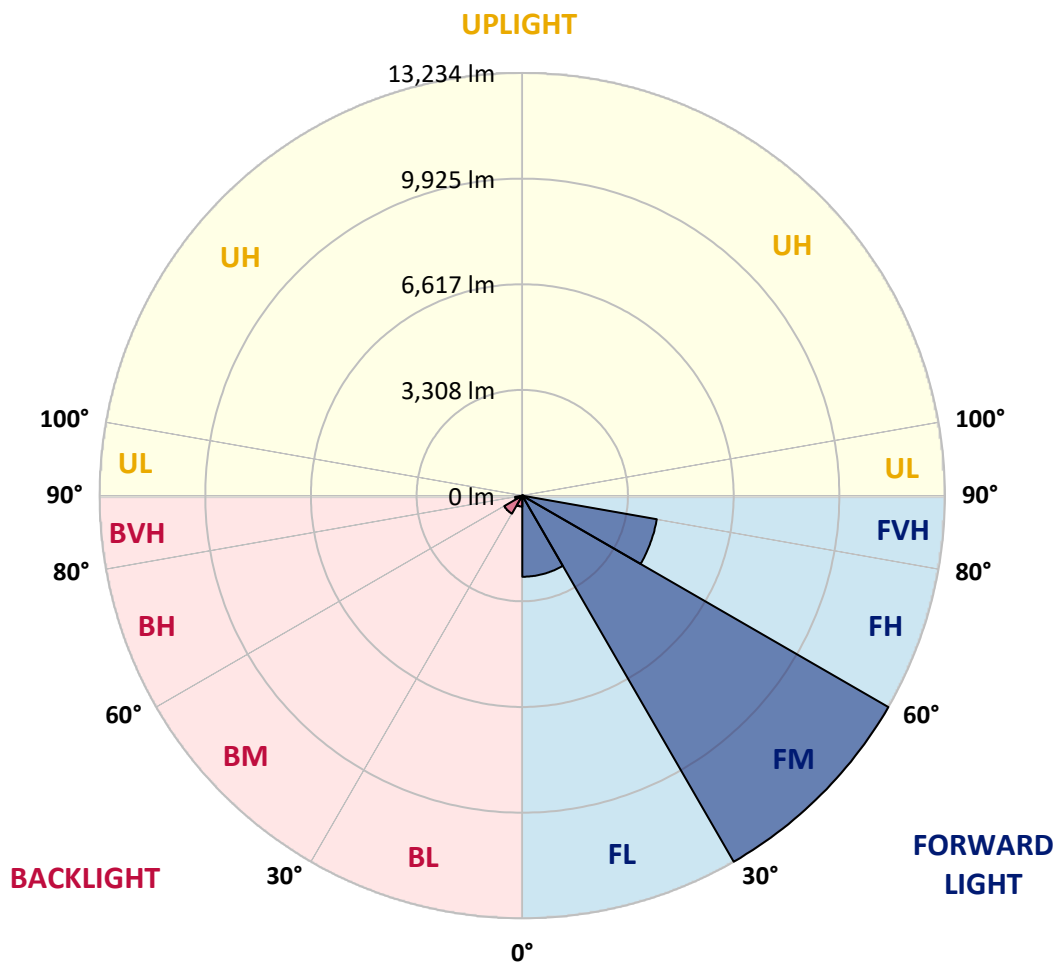
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2540.0	11.9			
FM (30°-60°)	13233.8	62.1			
FH (60°-80°)	4275.4	20.0			G2/5000
FVH (80°-90°)	47.8	0.2			G1/100
BL (0°-30°)	343.6	1.6	B1/500		
BM (30°-60°)	651.2	3.1	B1/1000		
BH (60°-80°)	230.9	1.1	B1/500		G1/500
BVH (80°-90°)	4.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1786.1	1786.1	1786.1	1786.1	1786.1	1786.1	1786.1	1786.1	1786.1	1786.1	1786.1
2.5°	2613.6	2590.1	2543.0	2526.8	2457.6	2350.1	2255.8	2129.2	2029.1	2018.8	1898.0
5°	3500.1	3447.1	3425.0	3319.0	3152.6	2996.5	2728.5	2525.3	2291.2	2273.5	2030.5
7.5°	4354.1	4280.5	4258.4	4158.3	3963.9	3718.0	3370.5	3000.9	2629.8	2596.0	2208.7
10°	4972.5	4982.8	4943.1	4876.8	4719.3	4469.0	4040.5	3535.4	3006.8	2964.1	2409.0
12.5°	5415.8	5414.3	5421.6	5420.2	5336.2	5146.3	4695.7	4114.1	3422.0	3338.1	2638.7
15°	5704.4	5708.8	5730.9	5807.4	5816.3	5698.5	5323.0	4667.7	3903.5	3799.0	2887.5
17.5°	5995.9	6026.8	6062.2	6134.3	6199.1	6152.0	5886.9	5244.9	4339.4	4261.3	3154.0
20°	6477.4	6520.1	6499.5	6543.7	6577.5	6581.9	6377.3	5778.0	4868.0	4736.9	3458.8
22.5°	7247.5	7246.0	7193.0	7113.5	7047.3	7044.3	6858.8	6325.7	5348.0	5221.4	3765.1
25°	8220.8	8225.2	8122.2	7895.4	7730.5	7528.7	7315.2	6805.8	5861.9	5705.8	4087.6
27.5°	9336.9	9309.0	9152.9	8840.7	8513.8	8169.3	7861.5	7363.8	6406.7	6277.1	4457.2
30°	10339.7	10329.4	10146.8	9765.4	9335.5	8989.4	8543.3	8063.3	7112.0	6953.0	4870.9
32.5°	11273.2	11288.0	11034.7	10640.1	10224.8	9825.8	9354.6	8731.8	7804.1	7578.8	5321.5
35°	12002.1	12016.8	11754.7	11426.4	10999.4	10668.1	10219.0	9444.4	8487.3	8297.4	5839.8
37.5°	12390.9	12410.0	12258.3	12011.0	11744.4	11578.0	11159.9	10361.8	9317.8	9202.9	6452.4
40°	12464.5	12486.6	12420.3	12354.0	12339.3	12458.6	12336.4	11442.6	10469.3	10289.6	7365.3
42.5°	12243.6	12273.1	12302.5	12449.8	12750.1	13187.5	13613.0	12909.2	11952.1	11710.6	8481.4
45°	11663.5	11660.5	11776.8	12158.2	12831.1	13764.7	14947.1	14745.3	13972.3	13685.2	10058.5
47.5°	10671.0	10656.3	10908.1	11451.4	12499.8	13870.7	16035.2	16974.7	16550.6	16285.5	11753.3
50°	9158.8	9230.9	9627.0	10385.3	11676.7	13549.7	16370.9	18436.8	18666.5	18385.3	13122.7
52.5°	7387.4	7384.4	8005.8	9035.1	10457.5	12842.9	16136.8	18701.9	19354.2	19139.2	13797.1
55°	5467.3	5505.6	6152.0	7190.1	8874.6	11553.0	15372.6	18429.5	19616.3	19464.6	14241.7
57°	4067.0	4134.7	4653.0	5751.5	7496.4	10276.4	14355.1	17942.1	19719.3	19636.9	14611.3
57.5°	3796.0	3799.0	4304.0	5302.4	7092.9	9786.0	14063.6	17738.9	19716.4	19670.8	14671.7
60°	2336.8	2410.4	2759.4	3584.0	5191.9	7637.7	12109.6	16571.2	19563.3	19629.5	14929.4
62.5°	1398.8	1429.8	1656.5	2160.1	3346.9	5574.8	9909.7	15076.6	19164.2	19366.0	14911.7
65°	899.7	907.0	1010.1	1307.6	2092.4	3768.1	7636.2	13102.1	18132.0	18503.1	14328.6
67.5°	695.0	706.8	748.0	858.5	1213.3	2347.1	5401.0	10994.9	16462.2	16940.8	12915.1
70°	617.0	622.9	637.6	672.9	802.5	1325.2	3360.2	8588.9	13651.3	13786.8	10107.0
72.5°	503.6	519.8	565.4	577.2	636.1	827.5	1870.0	5764.7	9172.0	9205.9	5654.3
75°	390.2	393.2	460.9	494.8	536.0	569.8	834.9	2906.7	4405.6	4170.0	2179.3
77.5°	291.5	304.8	335.7	378.4	437.3	407.9	374.0	1095.5	1367.9	1342.9	633.2
80°	187.0	194.4	234.1	284.2	340.1	266.5	210.6	321.0	300.4	309.2	151.7
82.5°	94.2	95.7	150.2	231.2	216.5	134.0	132.5	131.1	111.9	110.4	70.7
85°	10.3	22.1	97.2	132.5	97.2	44.2	61.8	60.4	58.9	60.4	41.2
87.5°	1.5	1.5	16.2	19.1	13.3	14.7	17.7	19.1	23.6	22.1	17.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1786.1	1786.1	1786.1	1786.1	1786.1	1786.1	1786.1	1786.1	1786.1	1786.1	1786.1
2.5°	1839.1	1780.2	1671.3	1566.7	1488.7	1438.6	1373.8	1350.3	1316.4	1312.0	1295.8
5°	1918.6	1806.7	1616.8	1466.6	1345.8	1254.5	1175.0	1108.8	1055.8	1044.0	1049.9
7.5°	2032.0	1865.6	1600.6	1395.9	1228.0	1072.0	945.3	867.3	811.3	790.7	793.7
10°	2160.1	1943.7	1597.6	1320.8	1064.6	873.2	734.8	665.6	633.2	621.4	608.1
12.5°	2311.8	2033.5	1590.3	1204.5	885.0	696.5	597.8	556.6	525.7	516.8	516.8
15°	2482.6	2129.2	1554.9	1060.2	718.6	575.7	509.5	477.1	466.8	457.9	457.9
17.5°	2660.8	2223.4	1481.3	882.0	596.4	493.3	452.0	432.9	418.2	407.9	407.9
20°	2864.0	2316.2	1363.5	724.5	503.6	440.3	407.9	385.8	374.0	365.2	362.2
22.5°	3056.9	2391.3	1213.3	594.9	438.8	396.1	366.6	343.1	331.3	326.9	326.9
25°	3257.1	2436.9	1032.2	491.8	400.5	359.3	326.9	307.7	297.4	294.5	293.0
27.5°	3451.5	2463.4	873.2	430.0	365.2	325.4	294.5	279.8	269.5	266.5	268.0
30°	3687.1	2467.9	718.6	385.8	334.3	293.0	265.0	251.8	245.9	243.0	241.5
32.5°	3925.6	2462.0	603.7	359.3	304.8	265.0	241.5	231.2	226.8	222.3	222.3
35°	4193.6	2431.1	513.9	332.8	276.8	241.5	220.9	212.0	206.1	201.7	200.3
37.5°	4526.4	2414.9	462.4	303.3	251.8	219.4	200.3	191.4	187.0	181.1	179.6
40°	5050.6	2487.0	446.2	276.8	226.8	198.8	181.1	170.8	164.9	159.0	157.6
42.5°	5704.4	2613.6	419.7	250.3	204.7	179.6	162.0	150.2	139.9	132.5	129.6
45°	6551.0	2780.0	378.4	222.3	185.5	159.0	142.8	128.1	114.9	109.0	107.5
47.5°	7438.9	2940.5	341.6	200.3	164.9	141.4	123.7	107.5	95.7	91.3	89.8
50°	7983.7	2972.9	318.1	175.2	144.3	122.2	104.5	89.8	82.5	78.0	78.0
52.5°	8232.6	2921.4	285.7	153.1	125.2	107.5	89.8	78.0	73.6	70.7	69.2
55°	8406.3	2841.9	243.0	132.5	107.5	91.3	79.5	70.7	64.8	61.8	60.4
57°	8507.9	2734.4	210.6	116.3	92.8	79.5	70.7	63.3	57.4	51.5	51.5
57.5°	8512.4	2693.2	201.7	114.9	88.3	76.6	69.2	61.8	54.5	48.6	47.1
60°	8381.3	2410.4	162.0	97.2	70.7	64.8	57.4	48.6	38.3	32.4	30.9
62.5°	7960.2	2051.2	134.0	82.5	57.4	50.1	41.2	36.8	26.5	19.1	19.1
65°	7322.6	1663.9	114.9	66.3	47.1	36.8	28.0	26.5	16.2	8.8	7.4
67.5°	6400.8	1295.8	97.2	54.5	39.8	26.5	19.1	17.7	8.8	2.9	0.0
70°	4876.8	883.5	81.0	44.2	29.4	19.1	13.3	10.3	5.9	1.5	0.0
72.5°	2810.9	485.9	67.7	33.9	22.1	14.7	10.3	5.9	5.9	0.0	0.0
75°	1004.2	209.1	51.5	25.0	17.7	11.8	7.4	2.9	4.4	1.5	0.0
77.5°	319.5	111.9	33.9	19.1	14.7	8.8	5.9	2.9	2.9	1.5	0.0
80°	94.2	58.9	20.6	16.2	10.3	7.4	4.4	1.5	2.9	1.5	0.0
82.5°	51.5	29.4	16.2	11.8	10.3	5.9	4.4	1.5	1.5	1.5	0.0
85°	26.5	17.7	13.3	11.8	10.3	5.9	4.4	1.5	0.0	1.5	1.5
87.5°	14.7	13.3	13.3	11.8	10.3	7.4	4.4	1.5	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)