

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: P456011

Luminaire Tested: **GALN-SA7B-727-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456011
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24335 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

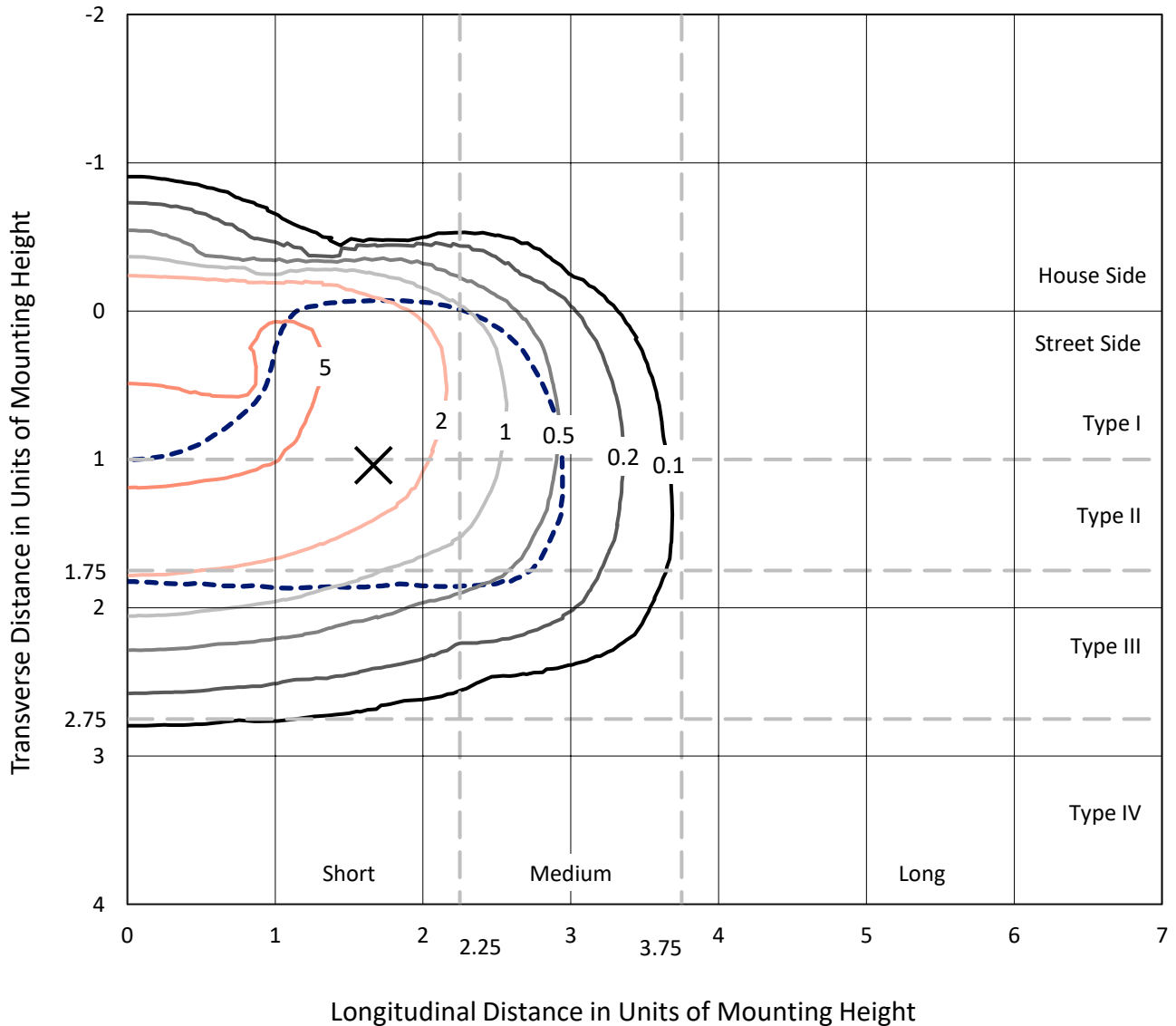
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

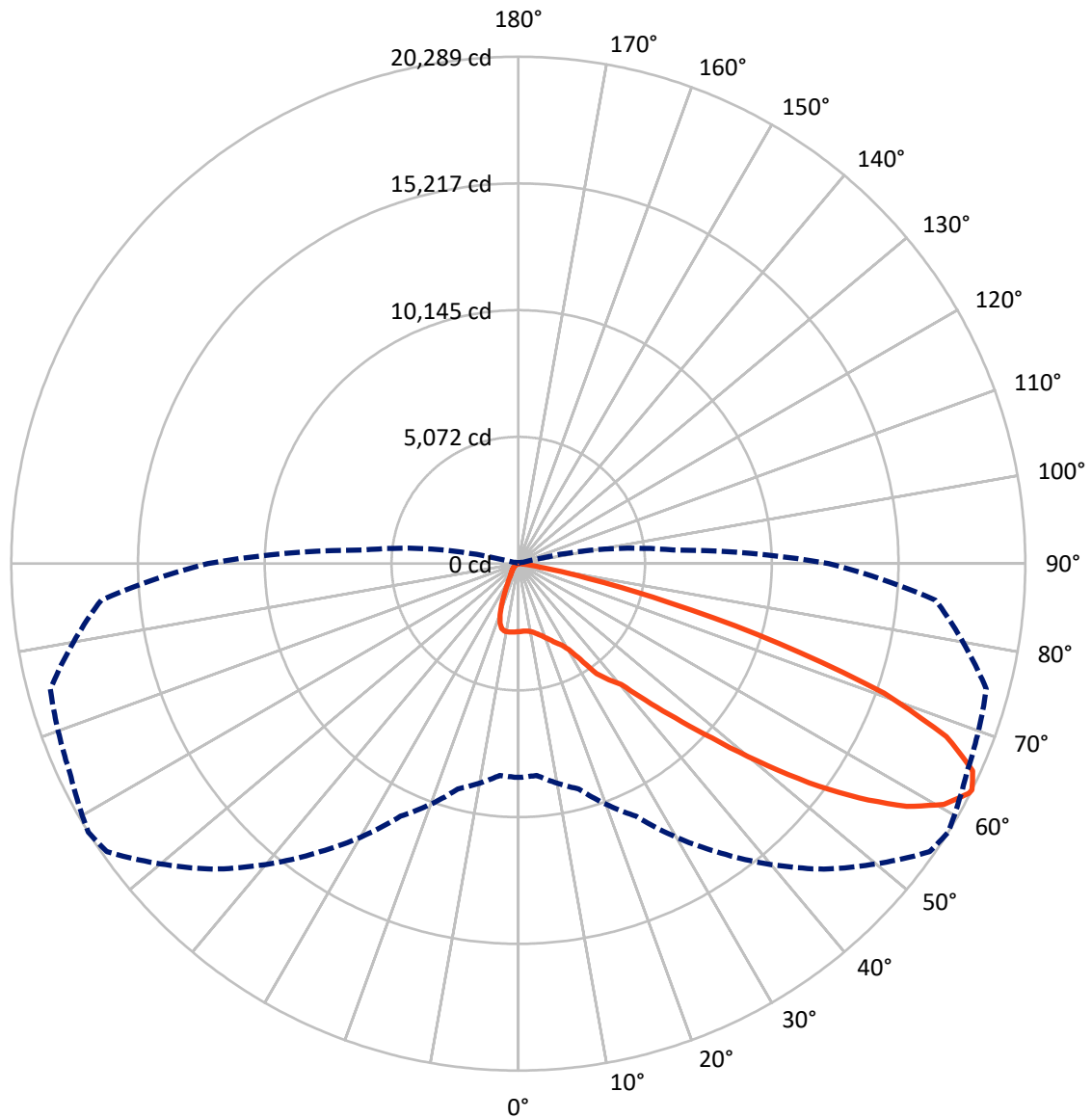
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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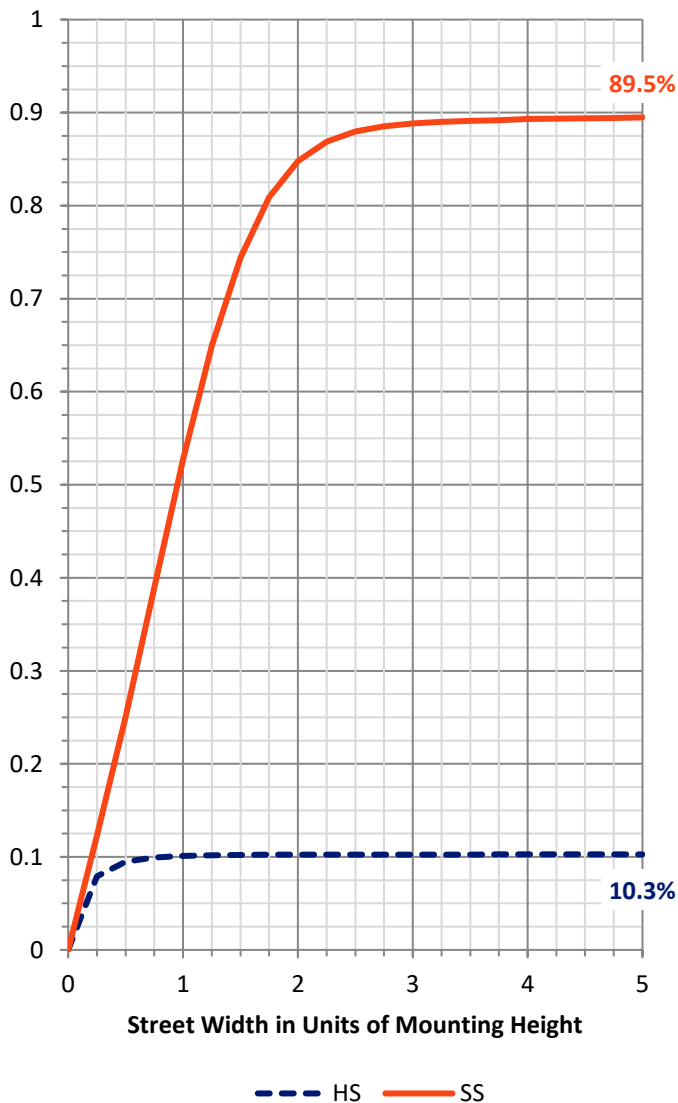
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2519.7	0.0	2519.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	21815.3	0.0	21815.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	24335.0	0.0	24335.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.0	1.0
10°-20°	694.6	2.9
20°-30°	1205.6	5.0
30°-40°	2215.4	9.1
40°-50°	4170.4	17.1
50°-60°	7133.2	29.3
60°-70°	6830.0	28.1
70°-80°	1741.7	7.2
80°-90°	89.1	0.4
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°	24335.0	100.0
0°-180°	24335.0	100.0



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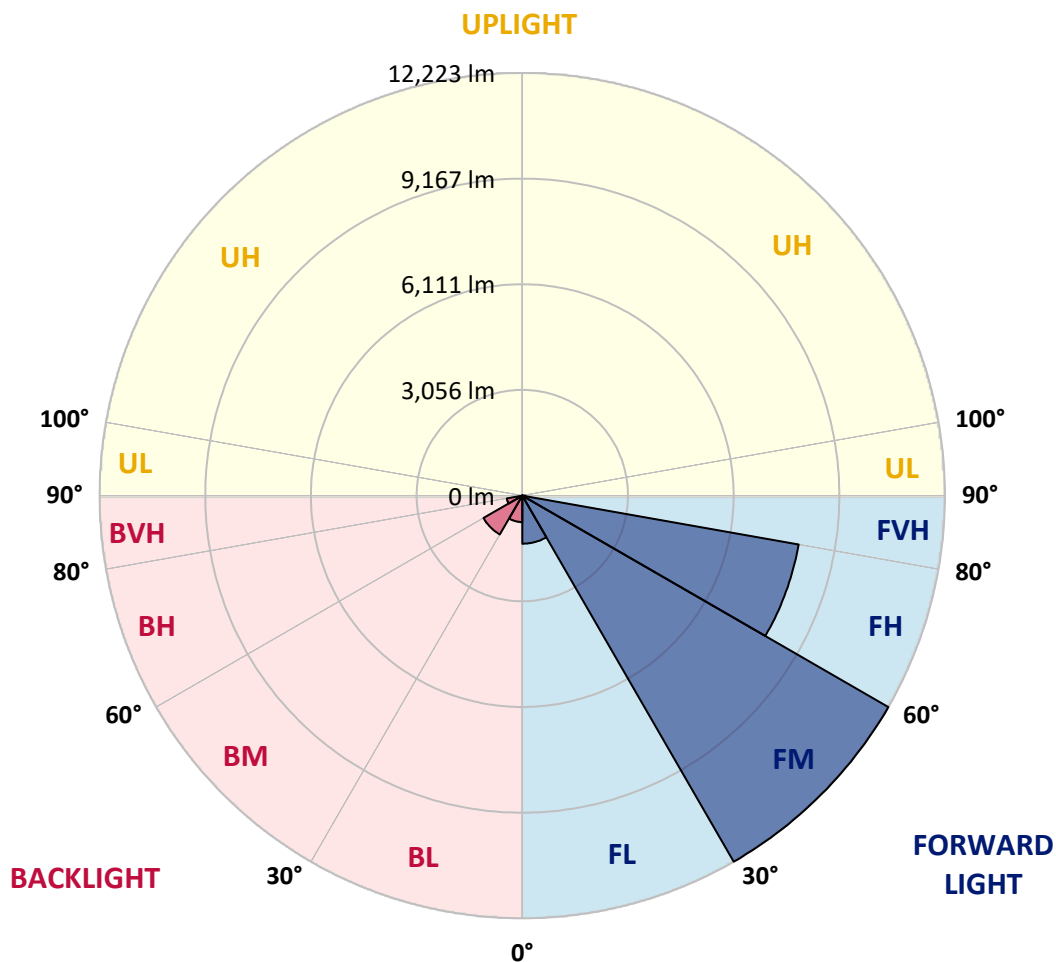
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1391.1	5.7			
FM (30°-60°)	12223.0	50.2			
FH (60°-80°)	8115.6	33.3			G4/12000
FVH (80°-90°)	85.6	0.4			G1/100
BL (0°-30°)	764.2	3.1	B2/1000		
BM (30°-60°)	1296.0	5.3	B2/2500		
BH (60°-80°)	456.1	1.9	B1/500		G1/500
BVH (80°-90°)	3.5	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2724.4	2724.4	2724.4	2724.4	2724.4	2724.4	2724.4	2724.4	2724.4	2724.4	2724.4
2.5°	2656.6	2665.8	2674.9	2678.6	2691.4	2704.2	2713.4	2711.6	2726.2	2733.6	2733.6
5°	2550.3	2550.3	2574.2	2596.1	2632.8	2669.4	2704.2	2711.6	2739.1	2764.7	2773.9
7.5°	2460.6	2466.1	2484.4	2524.7	2574.2	2638.3	2707.9	2724.4	2772.0	2828.8	2852.6
10°	2418.4	2422.1	2445.9	2488.1	2550.3	2638.3	2735.4	2766.5	2839.8	2929.6	2962.6
12.5°	2409.3	2414.8	2438.6	2486.2	2557.7	2663.9	2795.9	2828.8	2935.1	3050.5	3100.0
15°	2425.8	2429.4	2453.2	2504.5	2583.3	2709.7	2876.5	2922.3	3048.7	3182.4	3246.6
17.5°	2484.4	2480.7	2497.2	2539.4	2627.3	2766.5	2973.6	3028.5	3176.9	3360.2	3402.3
20°	2733.6	2709.7	2695.1	2658.4	2693.3	2847.2	3090.8	3171.4	3354.7	3541.5	3570.8
22.5°	3270.4	3217.2	3112.8	2969.9	2860.0	2957.1	3231.9	3325.3	3561.7	3744.9	3744.9
25°	3953.8	3886.0	3781.5	3470.1	3200.8	3138.5	3391.3	3508.6	3787.0	3972.1	3911.6
27.5°	4809.4	4756.2	4552.9	4190.1	3777.9	3455.4	3576.3	3684.4	3986.7	4210.3	4083.8
30°	5505.6	5479.9	5313.2	4988.9	4534.6	4063.7	3920.8	3992.2	4252.4	4510.7	4380.7
32.5°	6093.7	6093.7	5923.3	5621.0	5196.0	4778.2	4505.2	4556.5	4805.7	5104.4	4862.5
35°	6740.5	6718.5	6581.1	6293.4	5817.1	5448.8	5337.0	5406.7	5632.0	5853.7	5258.3
37.5°	7420.2	7412.9	7269.9	6991.5	6603.0	6139.5	5877.5	5895.8	6011.3	6146.8	5721.8
40°	8158.5	8169.5	7982.6	7810.4	7444.0	6969.5	6467.5	6352.0	6460.1	6843.1	6577.4
42.5°	9030.6	9005.0	8924.4	8689.9	8394.9	8110.9	7508.1	7466.0	7561.3	7971.7	7684.0
45°	10043.8	10080.5	9941.2	9811.1	9613.3	9376.9	8873.1	8799.8	8904.2	9541.8	9133.2
47.5°	11058.8	11024.0	11113.8	11090.0	11196.2	11020.3	10575.1	10424.9	10675.9	11280.5	10679.6
50°	11832.0	11870.5	12057.3	12330.3	12786.5	12885.5	12458.6	12407.3	12519.0	12907.5	12062.8
52.5°	12334.0	12462.2	12755.4	13457.1	14279.7	14919.1	14594.9	14567.4	14521.6	14626.0	13385.6
55°	12661.9	12792.0	13174.9	14208.3	15624.5	16663.3	16679.8	16562.6	16260.3	16185.2	14622.3
57.5°	12460.4	12486.1	13032.0	14413.5	16370.2	17907.4	18446.0	18328.8	17770.0	17486.0	15714.3
60°	11199.9	11253.0	12013.4	13636.6	16045.9	18314.1	19616.8	19563.6	18951.7	18631.1	16564.4
62.5°	8966.5	9120.4	9902.7	11712.9	14538.1	17628.9	20091.3	20241.5	19765.2	19323.6	16831.9
63°	8556.1	8506.6	9332.9	11152.3	14138.7	17289.9	20098.6	20289.2	19801.8	19389.6	16758.6
65°	6333.7	6482.1	7018.9	8794.3	11766.0	15712.5	19646.1	19983.2	19666.2	19098.3	15947.0
67.5°	3556.2	3548.9	4142.5	5754.8	8235.5	12324.8	17764.5	18477.2	18411.2	17137.9	13218.9
70°	1740.5	1768.0	2011.7	2982.7	4776.4	8503.0	14761.6	15531.1	15554.9	13460.8	9140.6
72.5°	787.8	800.6	974.7	1452.9	2455.1	4527.2	10172.1	10906.8	10771.2	8578.1	5047.6
75°	415.9	443.4	536.8	731.0	1183.6	1867.0	5533.1	6243.9	5960.0	3919.0	1857.8
77.5°	307.8	317.0	364.6	465.4	633.9	727.4	2387.3	2839.8	2660.3	1418.1	615.6
80°	225.4	232.7	271.2	329.8	399.4	370.1	899.6	1031.5	925.2	481.9	188.7
82.5°	137.4	139.2	197.9	245.5	251.0	207.0	296.8	318.8	333.5	271.2	102.6
85°	49.5	62.3	133.7	177.7	148.4	104.4	124.6	137.4	150.2	172.2	60.5
87.5°	5.5	7.3	64.1	86.1	42.1	38.5	45.8	51.3	55.0	64.1	29.3
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°	2724.4	2724.4	2724.4	2724.4	2724.4	2724.4	2724.4	2724.4	2724.4	2724.4	2724.4
2.5°	2740.9	2748.2	2742.7	2733.6	2731.7	2726.2	2715.2	2715.2	2715.2	2718.9	2715.2
5°	2781.2	2786.7	2773.9	2755.5	2735.4	2709.7	2682.3	2665.8	2663.9	2660.3	2651.1
7.5°	2858.1	2865.5	2836.2	2792.2	2737.2	2674.9	2616.3	2561.3	2535.7	2515.5	2515.5
10°	2969.9	2977.2	2918.6	2839.8	2729.9	2603.5	2464.2	2337.8	2238.9	2193.1	2182.1
12.5°	3103.7	3107.3	3010.2	2872.8	2691.4	2447.7	2150.9	1874.3	1681.9	1594.0	1584.8
15°	3250.2	3224.6	3096.3	2885.6	2581.5	2127.1	1614.1	1275.2	1075.5	1016.8	1038.8
17.5°	3398.6	3351.0	3162.3	2865.5	2334.2	1614.1	1084.6	870.3	808.0	791.5	791.5
20°	3537.9	3471.9	3209.9	2777.5	1905.4	1112.1	804.3	753.0	742.0	731.0	732.9
22.5°	3677.1	3576.3	3252.1	2581.5	1419.9	795.2	720.0	703.5	688.9	674.2	672.4
25°	3812.7	3673.4	3268.5	2218.7	967.4	683.4	657.7	635.8	606.4	590.0	586.3
27.5°	3953.8	3790.7	3257.6	1760.7	705.4	611.9	586.3	555.1	520.3	491.0	491.0
30°	4224.9	4014.2	3219.1	1266.0	593.6	538.7	505.7	456.2	417.7	388.4	386.6
32.5°	4595.0	4305.5	3087.2	890.4	527.7	474.5	425.1	370.1	329.8	307.8	307.8
35°	4924.8	4598.7	2839.8	655.9	474.5	412.2	351.8	298.6	267.5	252.8	247.3
37.5°	5426.8	5027.4	2499.0	533.2	423.2	357.3	295.0	245.5	219.9	208.9	208.9
40°	6179.8	5551.4	2081.3	467.2	373.8	304.1	245.5	207.0	186.9	174.1	174.1
42.5°	7114.2	6192.6	1658.1	419.6	328.0	262.0	205.2	175.9	157.6	148.4	146.6
45°	8290.4	6868.7	1277.0	375.6	291.3	223.5	174.1	148.4	130.1	124.6	126.4
47.5°	9518.0	7464.2	989.4	337.1	252.8	188.7	148.4	128.3	115.4	108.1	108.1
50°	10566.0	7874.6	751.2	293.1	223.5	159.4	130.1	115.4	104.4	100.8	98.9
52.5°	11441.7	7993.6	575.3	254.7	196.0	137.4	115.4	104.4	95.3	89.8	89.8
55°	12187.4	7889.2	450.7	214.4	164.9	119.1	102.6	93.4	82.4	77.0	75.1
57.5°	12623.5	7553.9	344.4	177.7	133.7	98.9	89.8	78.8	66.0	56.8	56.8
60°	12843.3	7066.6	263.8	146.6	102.6	78.8	73.3	58.6	45.8	38.5	36.6
62.5°	12579.5	6419.8	199.7	115.4	77.0	58.6	49.5	42.1	29.3	22.0	22.0
63°	12416.4	6233.0	192.4	109.9	71.5	55.0	45.8	38.5	25.7	20.2	18.3
65°	11319.0	5417.6	157.6	87.9	56.8	38.5	31.1	27.5	18.3	9.2	7.3
67.5°	8988.5	4144.3	124.6	66.0	40.3	27.5	18.3	16.5	5.5	0.0	0.0
70°	6077.2	2676.8	97.1	47.6	27.5	16.5	9.2	7.3	1.8	0.0	0.0
72.5°	3169.6	1372.3	75.1	34.8	16.5	11.0	5.5	1.8	0.0	0.0	0.0
75°	1121.3	467.2	55.0	22.0	11.0	5.5	1.8	0.0	0.0	0.0	0.0
77.5°	338.9	174.1	34.8	16.5	7.3	3.7	0.0	0.0	0.0	0.0	0.0
80°	119.1	64.1	20.2	11.0	5.5	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	58.6	31.1	12.8	9.2	5.5	1.8	0.0	0.0	0.0	0.0	0.0
85°	33.0	20.2	11.0	9.2	5.5	3.7	0.0	0.0	0.0	0.0	0.0
87.5°	23.8	14.7	11.0	9.2	7.3	3.7	1.8	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)