

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: P455315

Luminaire Tested: **GALN-SA6C-727-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455315
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-SA6C-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA 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: 25598 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

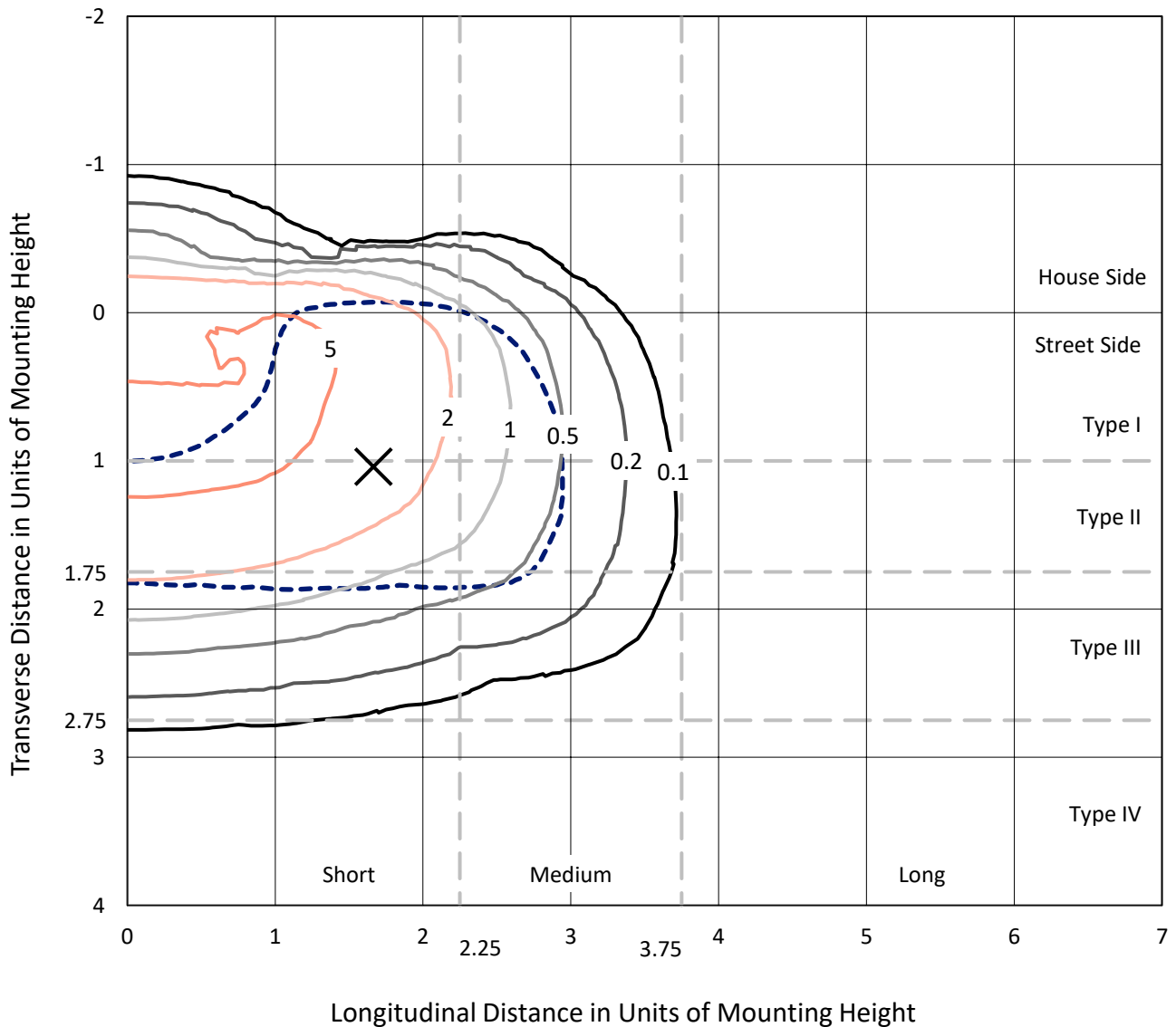
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455315
 CATALOG NUMBER: GALN-SA6C-727-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

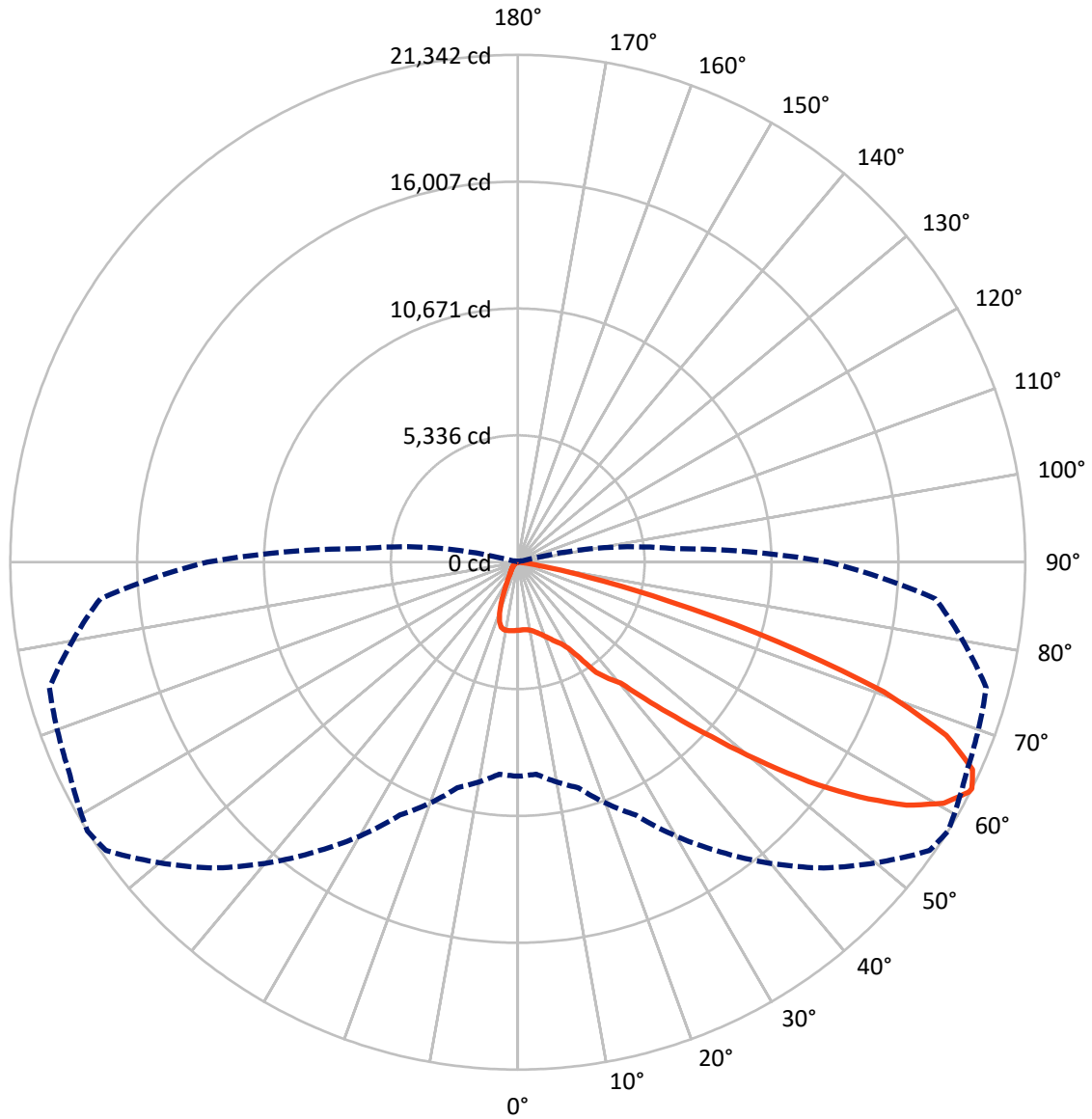
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Short - N/A

REPORT NUMBER: P455315
CATALOG NUMBER: GALN-SA6C-727-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P455315

CATALOG NUMBER: GALN-SA6C-727-U-T3-HSS

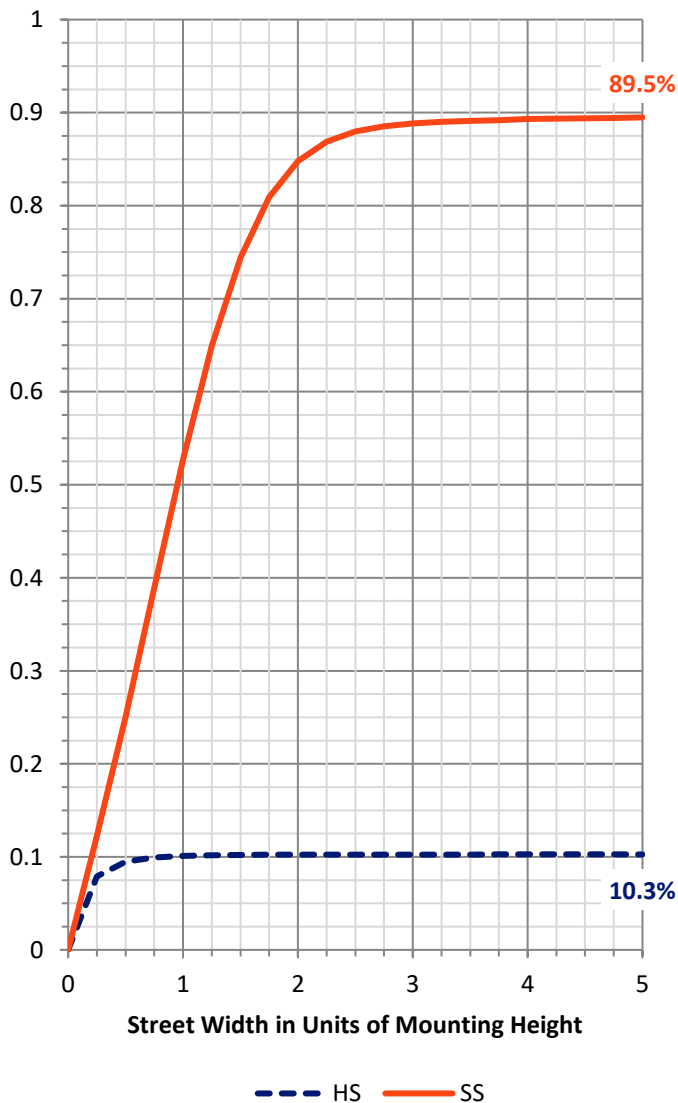
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2650.5	0.0	2650.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	22947.5	0.0	22947.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	25598.0	0.0	25598.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.3	1.0
10°-20°	730.7	2.9
20°-30°	1268.1	5.0
30°-40°	2330.4	9.1
40°-50°	4386.9	17.1
50°-60°	7503.4	29.3
60°-70°	7184.5	28.1
70°-80°	1832.1	7.2
80°-90°	93.7	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°	25598.0	100.0
0°-180°	25598.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455315

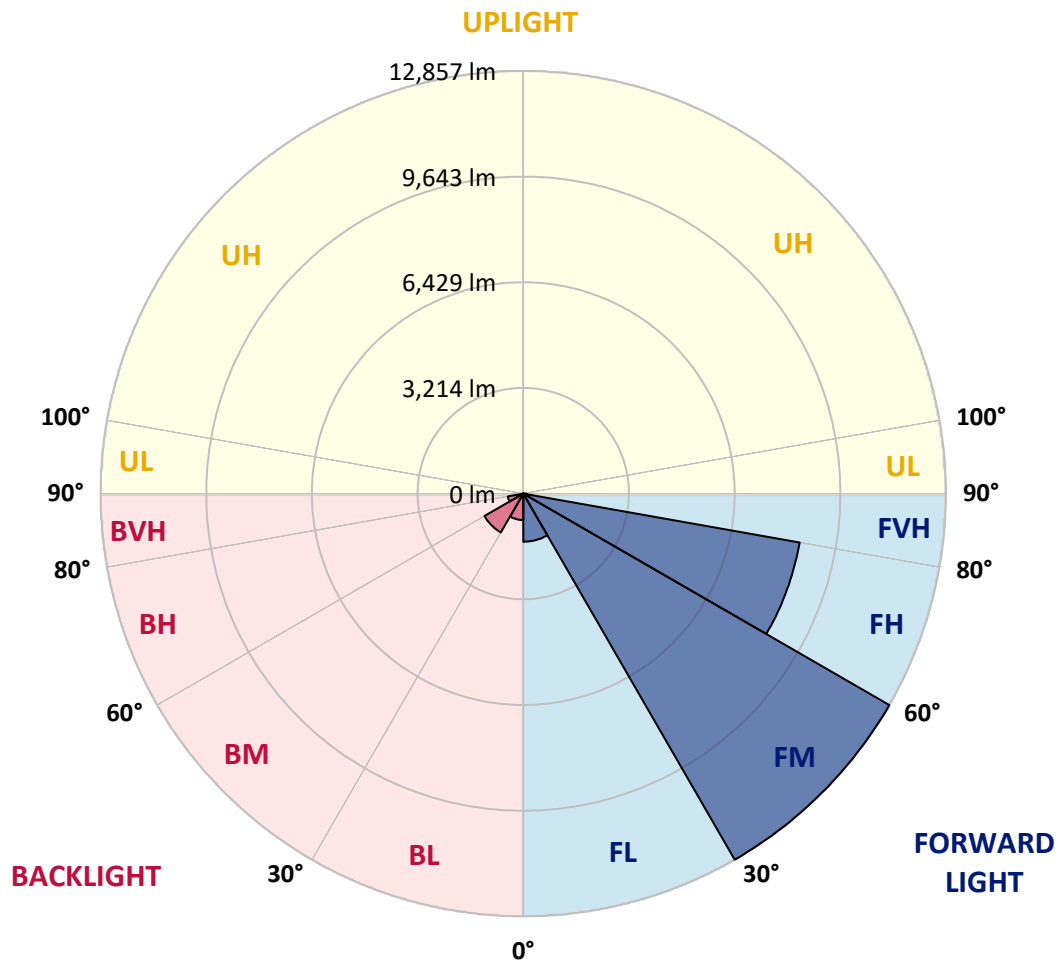
CATALOG NUMBER: GALN-SA6C-727-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1463.3	5.7			
FM	(30°-60°)	12857.4	50.2			
FH	(60°-80°)	8536.8	33.3			G4/12000
FVH	(80°-90°)	90.0	0.4			G1/100
BL	(0°-30°)	803.8	3.1	B2/1000		
BM	(30°-60°)	1363.3	5.3	B2/2500		
BH	(60°-80°)	479.8	1.9	B1/500		G1/500
BVH	(80°-90°)	3.6	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





REPORT NUMBER: P455315

CATALOG NUMBER: GALN-SA6C-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2865.8	2865.8	2865.8	2865.8	2865.8	2865.8	2865.8	2865.8	2865.8	2865.8	2865.8
2.5°	2794.5	2804.1	2813.8	2817.6	2831.1	2844.6	2854.2	2852.3	2867.7	2875.4	2875.4
5°	2682.7	2682.7	2707.8	2730.9	2769.4	2808.0	2844.6	2852.3	2881.2	2908.2	2917.8
7.5°	2588.3	2594.1	2613.3	2655.7	2707.8	2775.2	2848.5	2865.8	2915.9	2975.6	3000.7
10°	2543.9	2547.8	2572.9	2617.2	2682.7	2775.2	2877.4	2910.1	2987.2	3081.6	3116.3
12.5°	2534.3	2540.1	2565.1	2615.3	2690.4	2802.2	2941.0	2975.6	3087.4	3208.8	3260.9
15°	2551.7	2555.5	2580.6	2634.5	2717.4	2850.4	3025.8	3073.9	3206.9	3347.6	3415.1
17.5°	2613.3	2609.5	2626.8	2671.1	2763.7	2910.1	3127.9	3185.7	3341.8	3534.5	3578.9
20°	2875.4	2850.4	2835.0	2796.4	2833.0	2994.9	3251.2	3336.0	3528.8	3725.3	3756.2
22.5°	3440.1	3384.2	3274.4	3124.0	3008.4	3110.6	3399.6	3497.9	3746.5	3939.3	3939.3
25°	4159.0	4087.7	3977.8	3650.2	3366.9	3301.3	3567.3	3690.7	3983.6	4178.2	4114.6
27.5°	5059.0	5003.1	4789.2	4407.6	3974.0	3634.8	3762.0	3875.7	4193.7	4428.8	4295.8
30°	5791.3	5764.4	5589.0	5247.9	4769.9	4274.6	4124.3	4199.4	4473.1	4744.8	4608.0
32.5°	6410.0	6410.0	6230.7	5912.8	5465.6	5026.2	4739.1	4793.0	5055.1	5369.3	5114.9
35°	7090.3	7067.2	6922.6	6620.0	6119.0	5731.6	5614.0	5687.3	5924.3	6157.5	5531.2
37.5°	7805.3	7797.6	7647.3	7354.3	6945.7	6458.2	6182.6	6201.8	6323.3	6465.9	6018.7
40°	8582.0	8593.5	8397.0	8215.8	7830.3	7331.2	6803.1	6681.7	6795.4	7198.2	6918.8
42.5°	9499.3	9472.3	9387.6	9140.9	8830.6	8531.9	7897.8	7853.5	7953.7	8385.4	8082.8
45°	10565.1	10603.6	10457.2	10320.3	10112.2	9863.6	9333.6	9256.5	9366.4	10037.0	9607.3
47.5°	11632.8	11596.2	11690.6	11665.5	11777.3	11592.3	11124.0	10966.0	11230.0	11866.0	11233.8
50°	12446.1	12486.5	12683.1	12970.3	13450.2	13554.2	13105.2	13051.2	13168.8	13577.4	12688.9
52.5°	12974.1	13109.0	13417.4	14155.5	15020.9	15693.5	15352.3	15323.4	15275.2	15385.1	14080.4
55°	13319.1	13455.9	13858.7	14945.7	16435.4	17528.2	17545.5	17422.2	17104.2	17025.2	15381.2
57.5°	13107.1	13134.1	13708.4	15161.5	17219.8	18836.8	19403.4	19280.0	18692.2	18393.5	16529.9
60°	11781.2	11837.1	12636.9	14344.4	16878.7	19264.6	20634.9	20579.0	19935.3	19598.0	17424.1
62.5°	9431.9	9593.8	10416.7	12320.8	15292.6	18543.8	21134.0	21292.1	20791.0	20326.5	17705.5
63°	9000.2	8948.1	9817.3	11731.1	14872.5	18187.3	21141.7	21342.2	20829.5	20395.9	17628.4
65°	6662.4	6818.5	7383.2	9250.7	12376.7	16527.9	20665.7	21020.3	20686.9	20089.5	16774.6
67.5°	3740.8	3733.0	4357.5	6053.4	8662.9	12964.5	18686.4	19436.1	19366.8	18027.3	13905.0
70°	1830.9	1859.8	2116.1	3137.5	5024.3	8944.3	15527.7	16337.2	16362.2	14159.4	9615.0
72.5°	828.7	842.2	1025.3	1528.3	2582.5	4762.2	10700.0	11472.8	11330.2	9023.3	5309.5
75°	437.5	466.4	564.7	769.0	1245.0	1963.9	5820.2	6568.0	6269.3	4122.4	1954.2
77.5°	323.8	333.4	383.5	489.5	666.8	765.1	2511.2	2987.2	2798.3	1491.7	647.6
80°	237.0	244.8	285.2	346.9	420.1	389.3	946.3	1085.0	973.3	506.9	198.5
82.5°	144.5	146.5	208.1	258.2	264.0	217.8	312.2	335.3	350.8	285.2	107.9
85°	52.0	65.5	140.7	186.9	156.1	109.9	131.1	144.5	158.0	181.2	63.6
87.5°	5.8	7.7	67.5	90.6	44.3	40.5	48.2	54.0	57.8	67.5	30.8
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: P455315
 CATALOG NUMBER: GALN-SA6C-727-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2865.8	2865.8	2865.8	2865.8	2865.8	2865.8	2865.8	2865.8	2865.8	2865.8	2865.8
2.5°	2883.1	2890.8	2885.1	2875.4	2873.5	2867.7	2856.2	2856.2	2856.2	2860.0	2856.2
5°	2925.5	2931.3	2917.8	2898.6	2877.4	2850.4	2821.5	2804.1	2802.2	2798.3	2788.7
7.5°	3006.5	3014.2	2983.4	2937.1	2879.3	2813.8	2752.1	2694.3	2667.3	2646.1	2646.1
10°	3124.0	3131.8	3070.1	2987.2	2871.6	2738.6	2592.1	2459.1	2355.1	2306.9	2295.3
12.5°	3264.7	3268.6	3166.4	3021.9	2831.1	2574.8	2262.6	1971.6	1769.2	1676.7	1667.1
15°	3418.9	3391.9	3257.0	3035.4	2715.5	2237.5	1697.9	1341.4	1131.3	1069.6	1092.7
17.5°	3575.0	3524.9	3326.4	3014.2	2455.3	1697.9	1140.9	915.4	849.9	832.6	832.6
20°	3721.5	3652.1	3376.5	2921.7	2004.3	1169.8	846.1	792.1	780.5	769.0	770.9
22.5°	3868.0	3762.0	3420.8	2715.5	1493.6	836.4	757.4	740.1	724.6	709.2	707.3
25°	4010.6	3864.1	3438.2	2333.9	1017.6	718.9	691.9	668.7	637.9	620.6	616.7
27.5°	4159.0	3987.4	3426.6	1852.1	742.0	643.7	616.7	584.0	547.3	516.5	516.5
30°	4444.2	4222.6	3386.1	1331.7	624.4	566.6	531.9	479.9	439.4	408.6	406.6
32.5°	4833.5	4529.0	3247.4	936.6	555.0	499.2	447.1	389.3	346.9	323.8	323.8
35°	5180.4	4837.4	2987.2	689.9	499.2	433.6	370.0	314.1	281.4	266.0	260.2
37.5°	5708.5	5288.3	2628.7	560.8	445.2	375.8	310.3	258.2	231.3	219.7	219.7
40°	6500.6	5839.5	2189.3	491.4	393.2	319.9	258.2	217.8	196.6	183.1	183.1
42.5°	7483.4	6514.0	1744.1	441.3	345.0	275.6	215.9	185.0	165.7	156.1	154.2
45°	8720.7	7225.2	1343.3	395.1	306.4	235.1	183.1	156.1	136.8	131.1	133.0
47.5°	10012.0	7851.5	1040.7	354.6	266.0	198.5	156.1	134.9	121.4	113.7	113.7
50°	11114.4	8283.2	790.2	308.4	235.1	167.7	136.8	121.4	109.9	106.0	104.1
52.5°	12035.6	8408.5	605.2	267.9	206.2	144.5	121.4	109.9	100.2	94.4	94.4
55°	12820.0	8298.7	474.1	225.5	173.5	125.3	107.9	98.3	86.7	80.9	79.0
57.5°	13278.6	7946.0	362.3	186.9	140.7	104.1	94.4	82.9	69.4	59.7	59.7
60°	13509.9	7433.3	277.5	154.2	107.9	82.9	77.1	61.7	48.2	40.5	38.5
62.5°	13232.4	6753.0	210.1	121.4	80.9	61.7	52.0	44.3	30.8	23.1	23.1
63°	13060.9	6556.4	202.4	115.6	75.2	57.8	48.2	40.5	27.0	21.2	19.3
65°	11906.4	5698.8	165.7	92.5	59.7	40.5	32.8	28.9	19.3	9.6	7.7
67.5°	9455.0	4359.4	131.1	69.4	42.4	28.9	19.3	17.3	5.8	0.0	0.0
70°	6392.6	2815.7	102.1	50.1	28.9	17.3	9.6	7.7	1.9	0.0	0.0
72.5°	3334.1	1443.5	79.0	36.6	17.3	11.6	5.8	1.9	0.0	0.0	0.0
75°	1179.5	491.4	57.8	23.1	11.6	5.8	1.9	0.0	0.0	0.0	0.0
77.5°	356.5	183.1	36.6	17.3	7.7	3.9	0.0	0.0	0.0	0.0	0.0
80°	125.3	67.5	21.2	11.6	5.8	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	61.7	32.8	13.5	9.6	5.8	1.9	0.0	0.0	0.0	0.0	0.0
85°	34.7	21.2	11.6	9.6	5.8	3.9	0.0	0.0	0.0	0.0	0.0
87.5°	25.1	15.4	11.6	9.6	7.7	3.9	1.9	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)