

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: P949868

Luminaire Tested: **GALN-SB4C-727-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21445 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 200.7
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



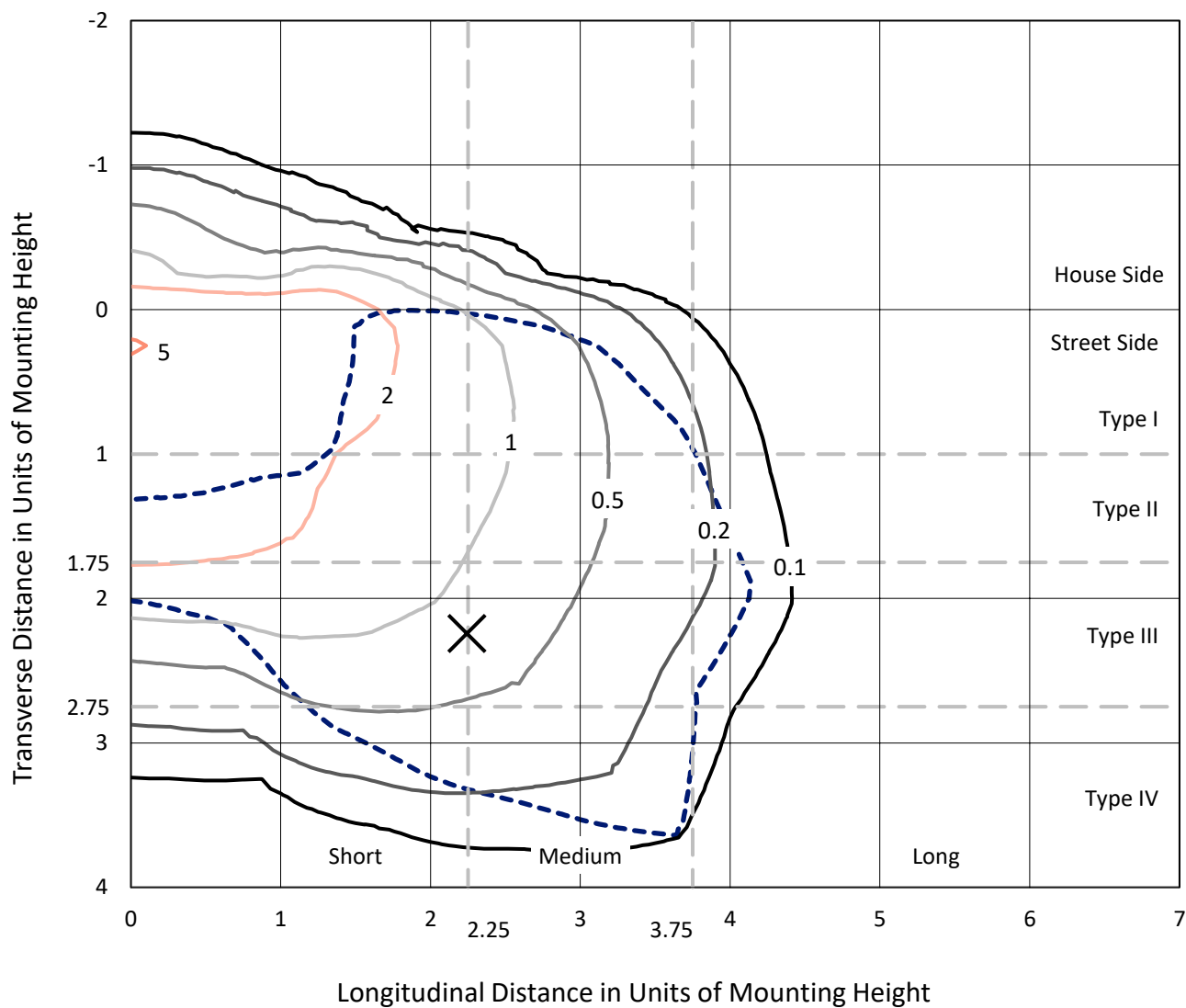
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

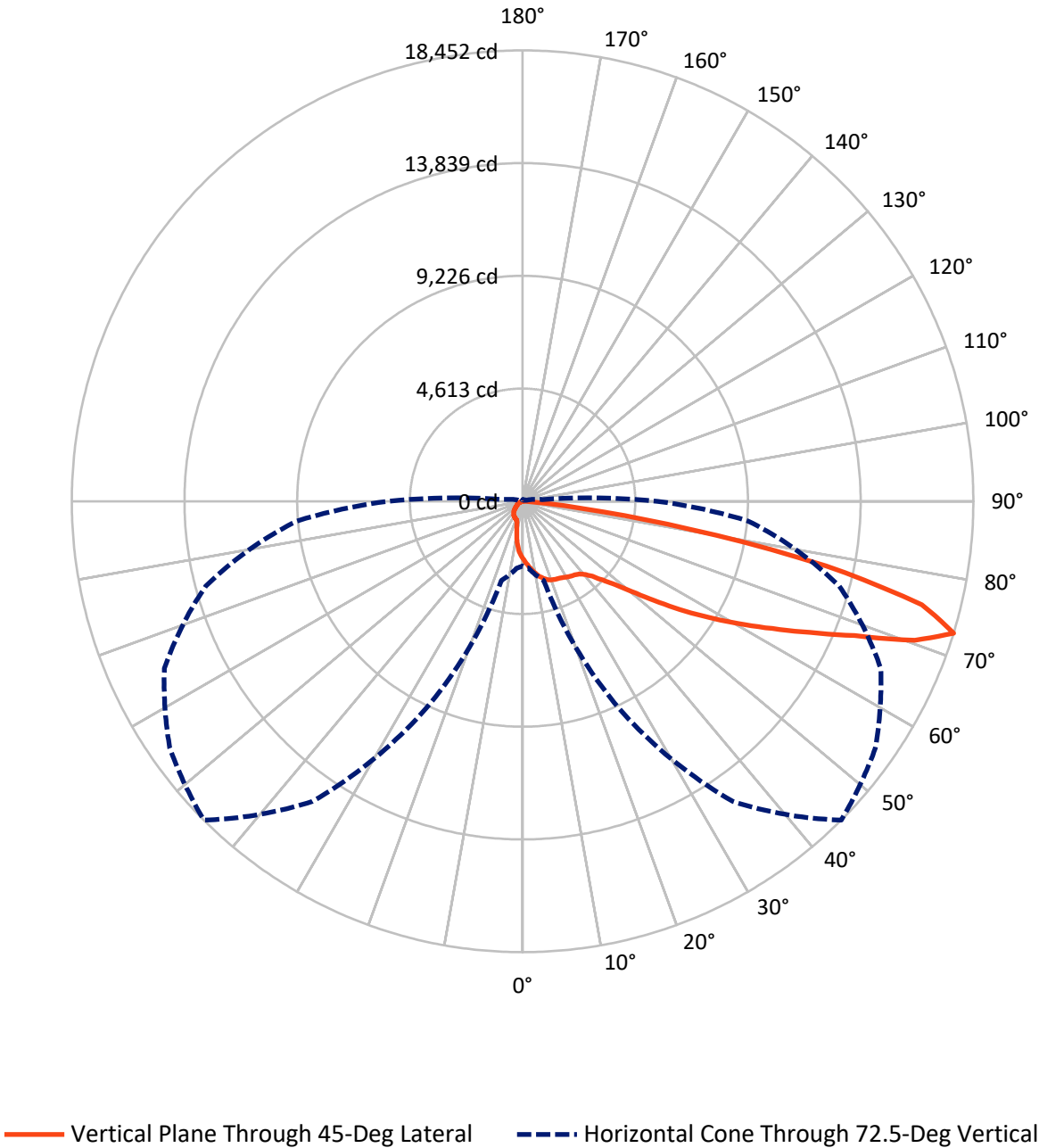


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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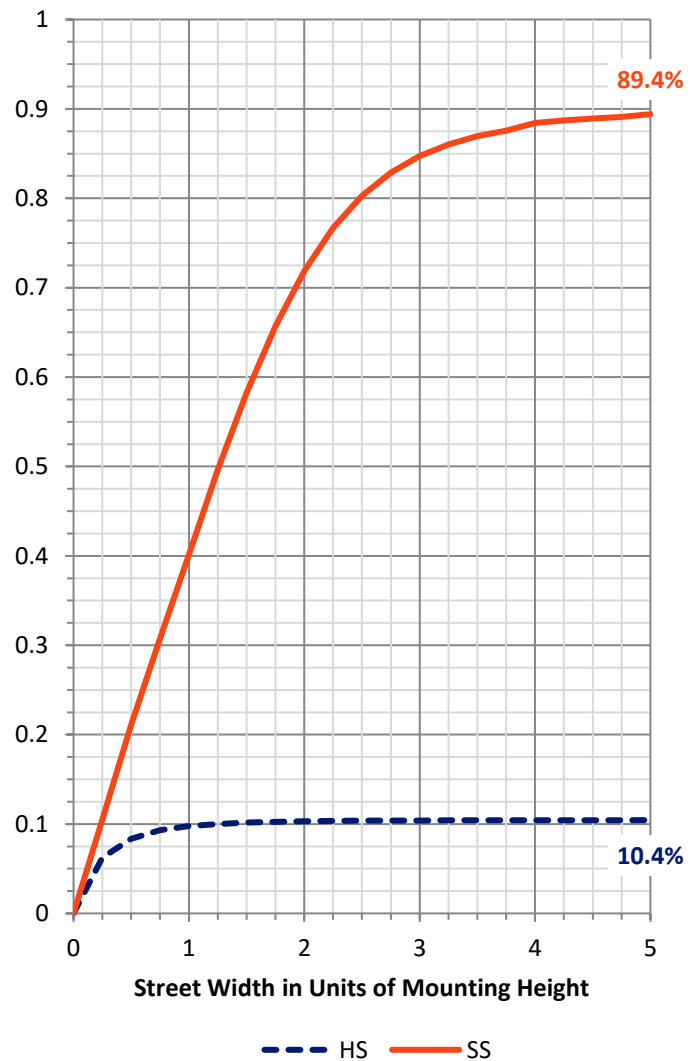
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2253.3	0.0	2253.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	19191.7	0.0	19191.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	21445.0	0.0	21445.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.4	1.0
10°-20°	646.9	3.0
20°-30°	1062.4	5.0
30°-40°	1506.7	7.0
40°-50°	2490.4	11.6
50°-60°	4473.7	20.9
60°-70°	6211.9	29.0
70°-80°	4505.9	21.0
80°-90°	325.8	1.5
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°	21445.0	100.0
0°-180°	21445.0	100.0

Coefficient of Utilization



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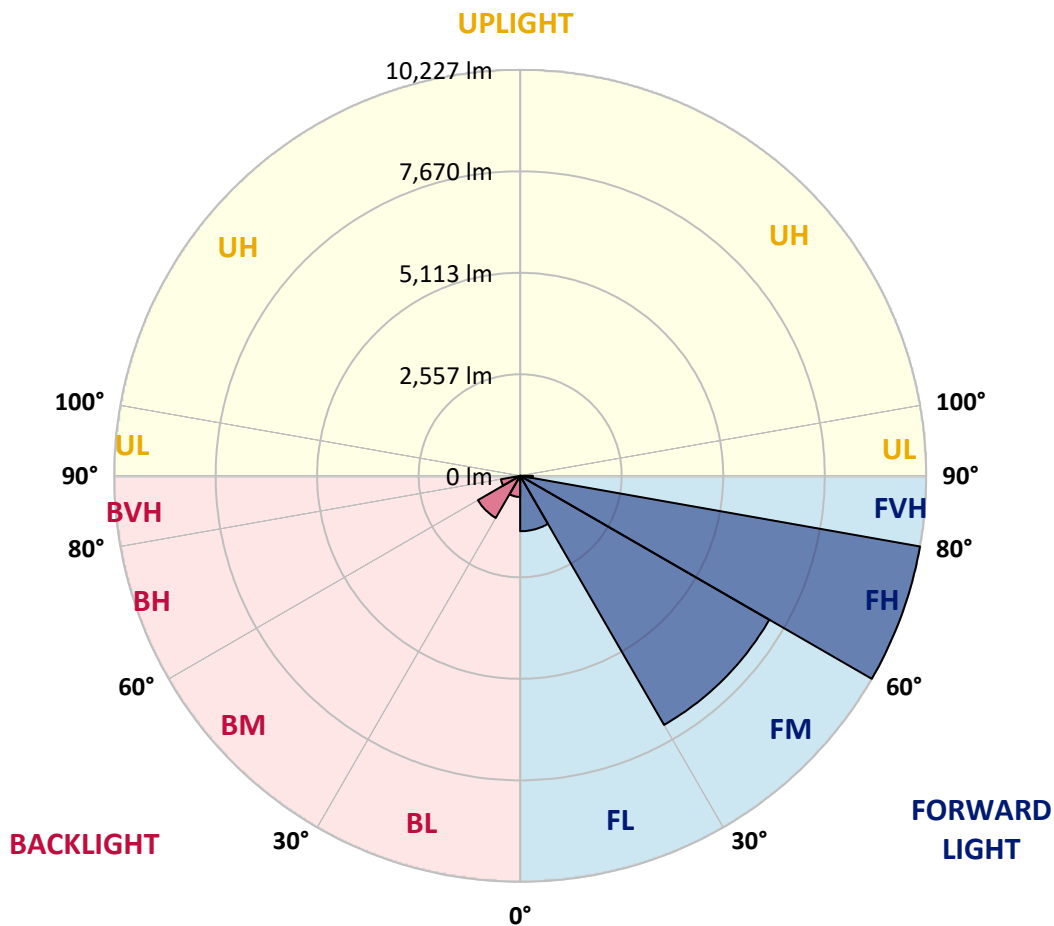
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1396.9	6.5			
FM	(30°-60°)	7245.3	33.8			
FH	(60°-80°)	10226.5	47.7			G4/12000
FVH	(80°-90°)	323.0	1.5			G3/500
BL	(0°-30°)	533.7	2.5	B2/1000		
BM	(30°-60°)	1225.5	5.7	B2/2500		
BH	(60°-80°)	491.4	2.3	B1/500		G1/500
BVH	(80°-90°)	2.7	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2349.3	2349.3	2349.3	2349.3	2349.3	2349.3	2349.3	2349.3	2349.3	2349.3	2349.3
2.5°	2566.0	2570.4	2567.4	2549.9	2520.6	2504.5	2495.7	2466.4	2447.4	2413.8	2378.6
5°	2801.6	2819.2	2809.0	2773.8	2718.2	2678.7	2667.0	2607.0	2552.8	2489.9	2416.7
7.5°	3052.0	3060.7	3041.7	2996.3	2921.7	2854.3	2844.1	2760.7	2674.3	2577.7	2478.2
10°	3268.6	3278.8	3249.6	3183.7	3098.8	3015.4	3000.7	2908.5	2806.0	2687.5	2560.1
12.5°	3450.1	3460.3	3422.3	3343.2	3249.6	3163.2	3148.6	3052.0	2939.2	2807.5	2649.4
15°	3587.7	3606.7	3555.5	3470.6	3369.6	3283.2	3275.9	3180.8	3071.0	2924.6	2756.3
17.5°	3668.2	3687.2	3638.9	3536.5	3450.1	3376.9	3368.1	3289.1	3186.6	3046.1	2860.2
20°	3681.4	3698.9	3647.7	3558.4	3486.7	3428.1	3423.8	3366.7	3292.0	3157.3	2972.9
22.5°	3641.9	3663.8	3617.0	3545.2	3495.5	3464.7	3458.9	3426.7	3384.2	3270.1	3078.3
25°	3600.9	3618.4	3583.3	3520.4	3494.0	3491.1	3495.5	3489.6	3480.8	3384.2	3201.3
27.5°	3597.9	3617.0	3577.4	3517.4	3502.8	3533.5	3537.9	3565.7	3573.1	3488.2	3319.8
30°	3622.8	3636.0	3597.9	3535.0	3527.7	3597.9	3599.4	3649.2	3660.9	3576.0	3436.9
32.5°	3677.0	3691.6	3653.6	3561.3	3551.1	3649.2	3653.6	3719.4	3738.5	3669.7	3559.9
35°	3804.3	3821.9	3778.0	3634.5	3597.9	3697.5	3710.6	3788.2	3826.3	3769.2	3687.2
37.5°	4122.0	4070.7	4010.7	3782.4	3704.8	3773.6	3795.5	3886.3	3953.6	3887.8	3839.5
40°	4910.9	4749.9	4562.6	4034.1	3892.2	3936.1	3953.6	4044.4	4136.6	4072.2	4048.8
42.5°	6095.1	5904.8	5603.3	4613.8	4174.7	4196.6	4209.8	4288.8	4419.1	4367.9	4373.7
45°	7150.5	7081.7	6774.3	5603.3	4703.1	4594.8	4610.9	4651.9	4843.6	4824.6	4862.6
47.5°	7961.4	7921.9	7684.8	6739.2	5596.0	5082.2	5127.6	5146.6	5423.3	5490.6	5593.1
50°	8585.0	8570.4	8358.1	7749.2	6762.6	5800.9	5817.0	5776.0	6190.3	6357.1	6551.8
52.5°	9173.4	9223.2	9066.6	8687.5	8008.3	6742.1	6739.2	6546.0	7105.1	7356.9	7689.2
55°	9704.8	9722.3	9738.4	9644.8	9261.3	7813.6	7785.8	7469.6	8166.4	8426.9	8787.0
57.5°	10203.9	10211.2	10354.7	10546.4	10565.5	8964.1	8912.9	8533.8	9325.7	9511.6	9732.6
60°	10539.1	10572.8	10875.8	11408.6	11641.3	10151.2	10123.4	9737.0	10505.5	10591.8	10550.8
62.5°	10056.1	10261.0	11025.1	12081.9	12657.2	11467.1	11454.0	11091.0	11746.7	11676.5	11325.2
65°	8140.0	8486.9	9830.7	12537.2	13654.0	12936.8	12955.8	12569.4	13021.7	12793.3	11954.6
67.5°	5694.1	6060.0	7649.6	12573.8	14767.9	14662.5	14772.3	14166.3	14375.7	13863.3	12103.9
70°	3937.5	4126.4	5161.2	11786.2	15636.0	17039.7	17036.8	16127.8	15722.3	14350.8	11342.7
72.5°	2648.0	2746.0	3352.0	9350.5	14997.8	18452.2	18367.3	17626.7	16176.1	13421.3	9267.1
75°	1116.9	1188.6	1551.6	5254.9	11865.3	16881.6	16651.8	15577.4	14372.7	10568.4	5781.9
77.5°	354.2	385.0	611.9	1880.9	6535.7	12689.4	12446.4	9728.2	9633.0	5301.8	2113.7
80°	168.3	196.1	344.0	755.3	2571.8	6901.7	6868.0	4413.3	4143.9	1431.6	424.5
82.5°	73.2	86.4	190.3	404.0	1150.5	2462.1	2511.8	1501.8	1242.7	543.1	130.3
85°	23.4	30.7	87.8	185.9	486.0	611.9	604.5	357.2	500.6	295.7	45.4
87.5°	0.0	0.0	29.3	42.4	49.8	35.1	39.5	30.7	139.1	82.0	16.1
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°	2349.3	2349.3	2349.3	2349.3	2349.3	2349.3	2349.3	2349.3	2349.3	2349.3	2349.3
2.5°	2361.1	2337.6	2296.6	2258.6	2224.9	2191.3	2170.8	2141.5	2138.6	2138.6	2145.9
5°	2377.2	2339.1	2265.9	2188.3	2099.0	2014.1	1929.2	1847.3	1820.9	1801.9	1810.7
7.5°	2424.0	2364.0	2248.3	2100.5	1930.7	1744.8	1614.5	1474.0	1419.9	1390.6	1395.0
10°	2491.3	2409.4	2233.7	1974.6	1699.4	1446.2	1260.3	1108.1	1049.5	1024.6	1024.6
12.5°	2566.0	2465.0	2207.4	1818.0	1446.2	1143.2	961.7	891.4	882.7	882.7	882.7
15°	2655.3	2532.3	2162.0	1633.6	1181.3	904.6	840.2	843.1	851.9	857.8	857.8
17.5°	2747.5	2604.0	2090.3	1427.2	947.1	813.9	815.3	819.7	827.0	832.9	832.9
20°	2847.0	2675.8	1995.1	1207.6	812.4	787.5	791.9	796.3	802.1	805.1	806.5
22.5°	2953.9	2743.1	1882.4	992.4	767.0	765.5	767.0	771.4	778.7	778.7	781.7
25°	3068.1	2817.8	1753.6	835.8	743.6	743.6	746.5	749.4	755.3	755.3	756.8
27.5°	3185.2	2886.5	1617.5	753.8	723.1	721.6	721.6	726.0	729.0	730.4	731.9
30°	3314.0	2967.1	1481.3	736.3	707.0	699.7	695.3	698.2	701.1	702.6	705.5
32.5°	3445.7	3044.6	1359.8	743.6	690.9	677.7	663.1	660.2	660.2	666.0	670.4
35°	3592.1	3129.5	1266.2	768.5	682.1	645.5	622.1	608.9	610.4	619.2	623.6
37.5°	3767.7	3232.0	1197.4	790.4	676.3	608.9	570.9	554.8	544.5	554.8	551.8
40°	3997.5	3382.8	1147.6	808.0	668.9	566.5	515.2	488.9	469.9	475.7	472.8
42.5°	4335.7	3619.9	1128.6	809.5	652.8	516.7	458.2	423.0	395.2	396.7	390.8
45°	4809.9	3994.6	1226.6	790.4	617.7	462.6	398.1	351.3	333.7	329.3	323.5
47.5°	5459.8	4540.6	1453.5	750.9	566.5	409.9	339.6	300.1	286.9	279.6	275.2
50°	6330.8	5241.7	1705.3	707.0	515.2	360.1	291.3	266.4	257.6	250.3	248.8
52.5°	7340.8	5953.1	1911.7	663.1	464.0	316.2	260.6	245.9	238.6	232.7	231.3
55°	8267.4	6443.5	1900.0	616.2	414.2	281.0	238.6	229.8	221.0	215.2	212.2
57.5°	8844.1	6512.3	1566.2	565.0	357.2	253.2	218.1	212.2	202.0	194.7	193.2
60°	9109.0	6120.0	1097.8	497.7	300.1	226.9	196.1	193.2	180.0	169.8	166.9
62.5°	9157.3	5391.1	731.9	414.2	250.3	202.0	174.2	169.8	152.2	134.7	125.9
65°	8961.2	4348.9	506.5	323.5	213.7	175.7	149.3	140.5	121.5	103.9	98.1
67.5°	8340.5	3053.4	352.8	232.7	181.5	139.1	118.6	115.6	101.0	86.4	82.0
70°	7203.2	1740.4	235.7	174.2	143.4	95.1	93.7	96.6	82.0	70.3	64.4
72.5°	5522.8	796.3	146.4	127.3	98.1	64.4	74.7	76.1	62.9	52.7	46.8
75°	3251.0	341.1	92.2	82.0	49.8	42.4	54.2	55.6	42.4	33.7	29.3
77.5°	1106.6	128.8	58.6	48.3	24.9	23.4	35.1	35.1	23.4	13.2	10.2
80°	251.8	48.3	29.3	19.0	11.7	10.2	11.7	10.2	5.9	1.5	0.0
82.5°	71.7	19.0	11.7	7.3	4.4	4.4	1.5	0.0	0.0	0.0	0.0
85°	20.5	8.8	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.8	1.5	0.0	0.0	0.0	0.0	0.0	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)