

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: P949846

Luminaire Tested: **GALN-SB4C-722-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4C-722-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25454 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - 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



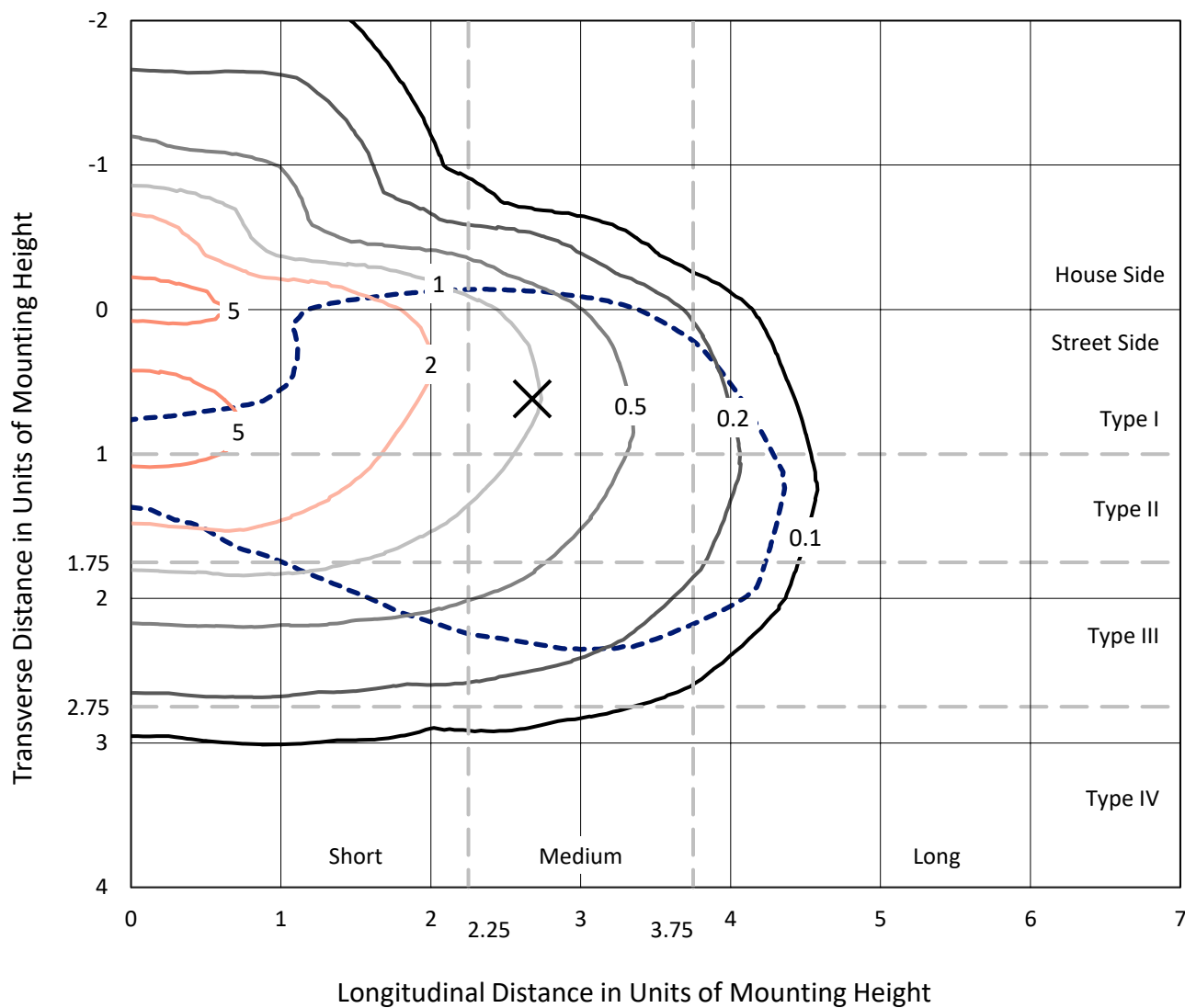
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Iso-Footcandle Lines of Horizontal Illumination

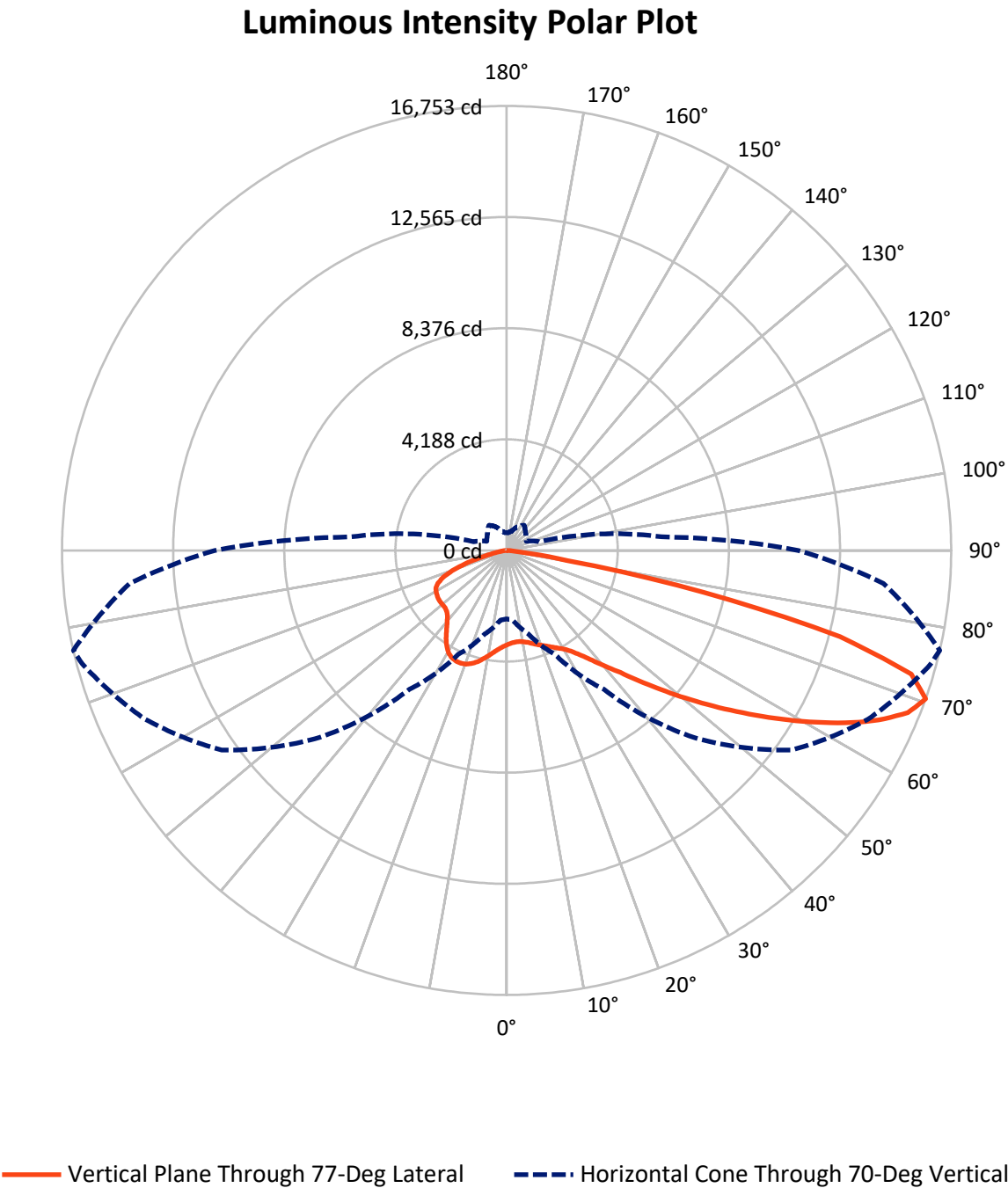
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Medium - N/A

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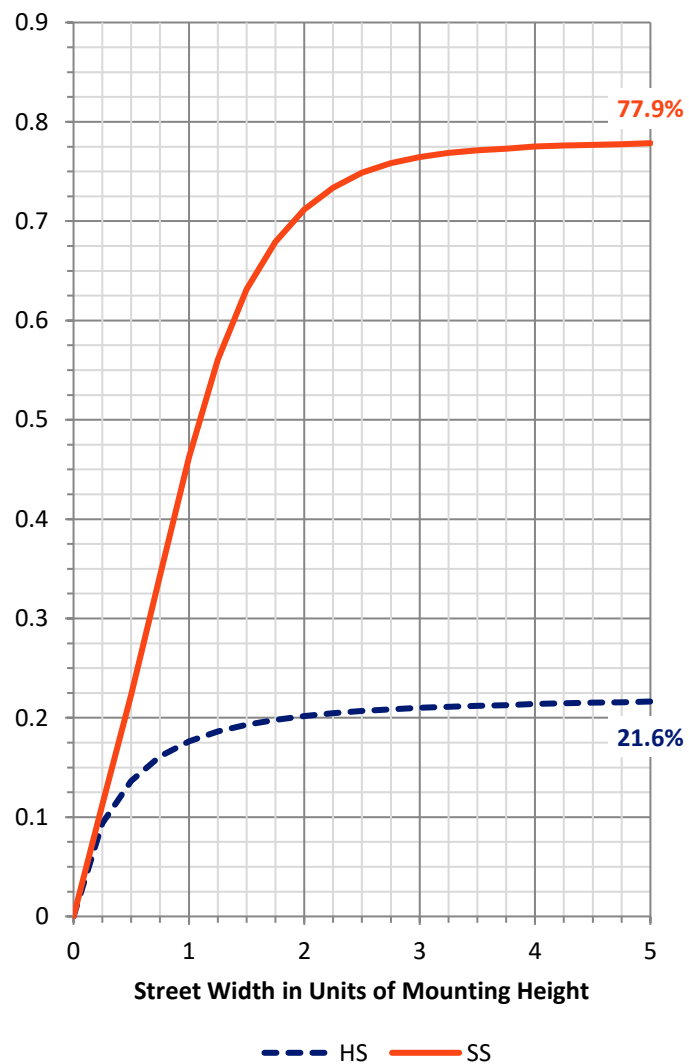
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5574.0	0.0	5574.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	19880.0	0.0	19880.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	25454.0	0.0	25454.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.7	1.3
10°-20°	977.5	3.8
20°-30°	1671.6	6.6
30°-40°	2688.1	10.6
40°-50°	4196.8	16.5
50°-60°	5605.9	22.0
60°-70°	5975.0	23.5
70°-80°	3678.2	14.5
80°-90°	322.3	1.3
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°	25454.0	100.0
0°-180°	25454.0	100.0

Coefficient of Utilization



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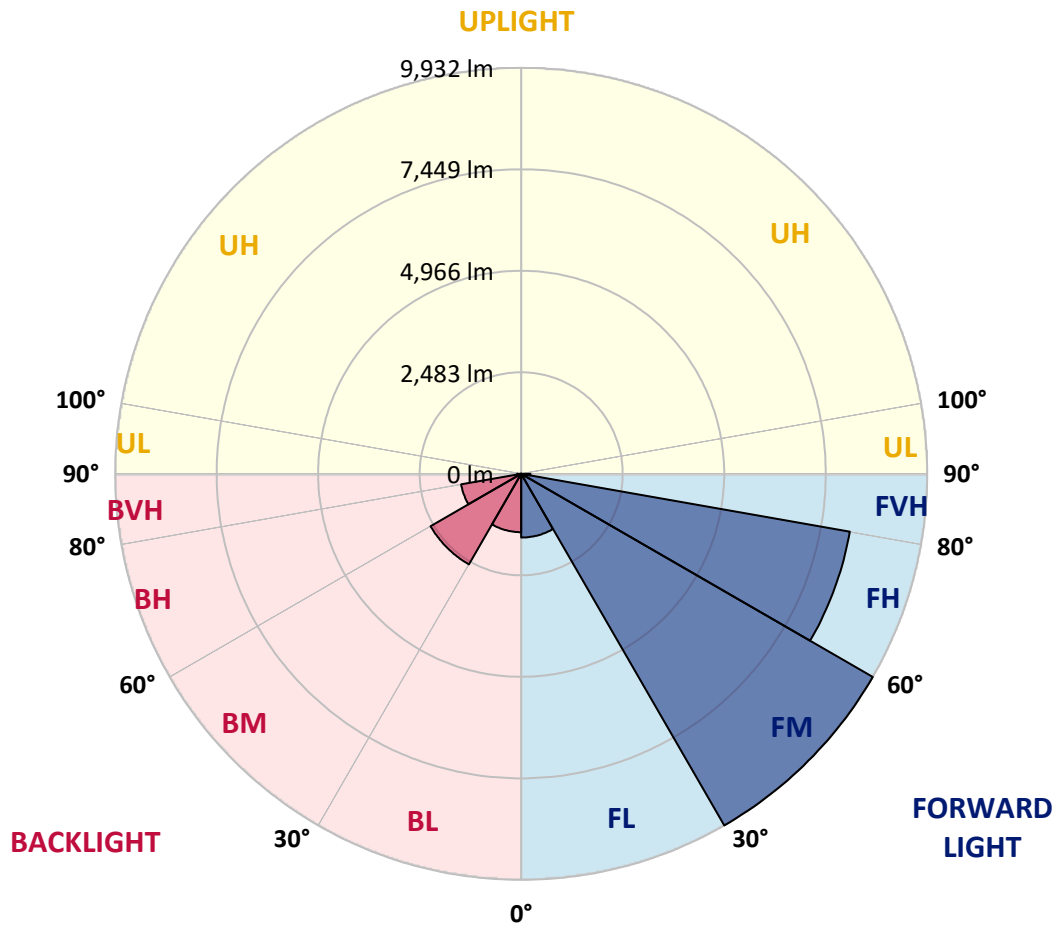
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1559.5	6.1			
FM	(30°-60°)	9931.6	39.0			
FH	(60°-80°)	8163.5	32.1			G4/12000
FVH	(80°-90°)	225.4	0.9			G3/500
BL	(0°-30°)	1428.2	5.6	B3/2500		
BM	(30°-60°)	2559.2	10.1	B3/5000		
BH	(60°-80°)	1489.7	5.9	B3/2500		G3/2500
BVH	(80°-90°)	96.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1
2.5°	3273.4	3272.1	3289.0	3294.3	3325.5	3347.7	3389.4	3433.7	3491.1	3497.6	3532.8
5°	3084.4	3084.4	3103.9	3124.8	3165.2	3209.5	3273.4	3350.3	3449.4	3465.0	3552.4
7.5°	2924.0	2934.5	2951.4	2991.8	3038.7	3102.6	3200.4	3309.9	3440.3	3465.0	3605.8
10°	2795.0	2806.7	2827.6	2860.1	2930.5	3019.2	3146.9	3287.7	3462.4	3501.5	3684.0
12.5°	2754.6	2766.3	2778.0	2802.8	2868.0	2972.3	3124.8	3298.2	3515.9	3555.0	3790.9
15°	2848.4	2862.8	2853.6	2847.1	2881.0	2976.2	3135.2	3336.0	3582.4	3638.4	3922.6
17.5°	3064.8	3070.0	3049.2	2987.9	2982.7	3033.5	3184.7	3388.1	3665.8	3727.1	4055.6
20°	3414.2	3405.1	3362.0	3240.8	3171.7	3161.3	3269.5	3466.3	3751.8	3817.0	4199.0
22.5°	3888.7	3878.3	3792.2	3600.6	3446.8	3345.1	3392.0	3568.0	3848.3	3921.3	4338.5
25°	4480.5	4466.2	4339.8	4079.0	3840.5	3588.9	3558.9	3702.3	3966.9	4034.7	4484.5
27.5°	5171.5	5159.7	5022.9	4678.7	4334.5	3922.6	3766.2	3860.0	4090.8	4167.7	4648.7
30°	5914.5	5948.4	5706.0	5335.7	4900.3	4358.0	4045.1	4054.3	4251.1	4320.2	4848.2
32.5°	6788.0	6846.6	6554.6	6085.3	5490.9	4831.2	4397.1	4325.4	4484.5	4541.8	5099.8
35°	7653.6	7720.0	7477.6	6958.7	6274.3	5389.2	4764.7	4637.0	4794.7	4857.3	5433.5
37.5°	8401.8	8490.5	8365.3	7914.3	7112.6	6061.8	5244.5	5003.3	5176.7	5254.9	5881.9
40°	8992.4	9128.0	9118.8	8837.3	8100.7	6877.9	5853.3	5455.7	5651.2	5735.9	6425.6
42.5°	9472.1	9589.4	9691.1	9676.8	9131.9	7804.8	6568.9	6043.6	6192.2	6290.0	7036.9
45°	9803.2	9928.4	10147.4	10383.3	10123.9	8796.8	7388.9	6741.0	6876.6	7023.9	7765.7
47.5°	10099.2	10241.3	10525.4	10899.6	10966.1	9792.8	8287.1	7553.2	7677.0	7829.6	8497.0
50°	10125.2	10247.8	10688.4	11219.0	11564.4	10749.7	9251.8	8464.4	8580.4	8743.4	9280.5
52.5°	9495.6	9688.5	10457.7	11209.8	11839.5	11550.1	10210.0	9412.1	9542.5	9738.1	10091.3
55°	7370.7	7653.6	9781.1	10860.5	11741.7	12067.6	11121.2	10419.8	10586.7	10791.4	10907.4
57.5°	6348.6	6472.5	7764.4	10224.3	11295.9	12201.9	11890.3	11438.0	11706.5	11930.7	11770.4
60°	5706.0	5808.9	6572.9	9234.9	10709.3	11989.4	12484.8	12387.0	12851.1	13118.3	12653.0
62.5°	5017.6	5115.4	5810.2	7710.9	9958.4	11636.1	12860.2	13263.0	14024.4	14316.4	13484.7
65°	4334.5	4418.0	5084.1	6479.0	9004.1	11282.8	13054.5	14020.5	15110.3	15412.7	14175.6
67.5°	3573.2	3642.3	4272.0	5466.1	7843.9	10799.2	13150.9	14616.2	16055.4	16314.8	14517.1
70°	2578.6	2632.0	3282.5	4322.8	6387.7	9967.5	13111.8	15038.6	16545.6	16752.8	14259.0
72.5°	1218.9	1267.1	2031.0	2806.7	4511.8	8348.4	12320.5	14703.5	16047.6	15944.6	12679.0
75°	650.5	692.2	1166.7	1539.6	2383.0	5722.9	10082.2	12666.0	13475.5	12974.9	9370.4
77.5°	440.6	473.2	722.2	924.3	1088.5	2716.7	6480.3	8769.5	8437.0	7610.5	4693.0
80°	349.4	383.3	591.8	625.7	526.7	981.6	2677.6	4059.5	2916.2	2332.2	1334.9
82.5°	268.5	306.4	498.0	453.7	286.8	402.8	779.6	1284.1	747.0	568.4	323.3
85°	164.3	204.7	391.1	289.4	161.6	183.8	264.6	357.2	228.1	190.3	116.0
87.5°	83.4	117.3	198.2	105.6	73.0	43.0	70.4	70.4	60.0	52.1	30.0
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°	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1	3551.1
2.5°	3564.1	3590.2	3634.5	3676.2	3708.8	3740.1	3771.4	3788.3	3793.5	3814.4	3826.1
5°	3605.8	3654.1	3740.1	3820.9	3871.8	3903.0	3925.2	3938.2	3940.8	3947.4	3957.8
7.5°	3682.7	3759.6	3879.6	3960.4	3998.2	3995.6	3986.5	3953.9	3940.8	3929.1	3931.7
10°	3790.9	3892.6	4039.9	4096.0	4072.5	4009.9	3929.1	3834.0	3789.6	3746.6	3733.6
12.5°	3925.2	4054.3	4199.0	4196.4	4080.3	3920.0	3732.3	3586.3	3493.7	3427.2	3411.6
15°	4088.2	4236.8	4347.6	4258.9	4004.7	3716.6	3441.6	3251.2	3167.8	3094.8	3087.0
17.5°	4256.3	4415.4	4466.2	4239.4	3814.4	3415.5	3103.9	2954.0	2871.9	2832.8	2844.5
20°	4420.6	4578.3	4536.6	4127.3	3525.0	3073.9	2796.3	2714.1	2697.2	2706.3	2702.4
22.5°	4594.0	4734.8	4550.9	3910.9	3156.1	2724.6	2572.0	2574.7	2612.5	2639.8	2646.4
25°	4771.3	4866.4	4513.1	3598.0	2759.8	2467.8	2430.0	2471.7	2546.0	2599.4	2613.8
27.5°	4942.0	4983.7	4431.0	3210.8	2419.5	2283.9	2290.5	2376.5	2488.6	2562.9	2581.2
30°	5135.0	5088.0	4273.3	2775.4	2183.6	2126.2	2181.0	2281.3	2393.4	2459.9	2475.6
32.5°	5352.7	5178.0	4023.0	2372.6	2016.7	1999.8	2089.7	2154.9	2204.4	2224.0	2234.4
35°	5623.8	5304.4	3702.3	2089.7	1866.8	1907.2	1993.2	1960.6	1941.1	1930.7	1941.1
37.5°	5975.8	5475.2	3326.8	1905.9	1745.5	1840.7	1875.9	1774.2	1697.3	1659.5	1668.6
40°	6399.5	5725.5	2965.7	1763.8	1668.6	1783.4	1722.1	1599.5	1501.8	1448.3	1452.2
42.5°	6870.1	5987.5	2662.0	1656.9	1625.6	1736.4	1608.7	1462.7	1304.9	1288.0	1304.9
45°	7364.2	6257.4	2454.7	1574.8	1604.8	1696.0	1543.5	1307.5	1195.4	1264.5	1301.0
47.5°	7858.2	6505.1	2329.6	1513.5	1594.3	1650.4	1486.1	1221.5	1142.0	1242.4	1289.3
50°	8408.4	6726.7	2273.5	1469.2	1582.6	1632.1	1400.1	1199.3	1085.9	1152.4	1201.9
52.5°	8954.6	6898.8	2231.8	1424.9	1565.6	1617.8	1358.4	1173.3	1018.1	1022.0	1049.4
55°	9499.5	7010.9	2186.2	1366.2	1527.8	1586.5	1354.5	1144.6	967.3	949.0	962.1
57.5°	10080.9	7074.8	2130.1	1301.0	1462.7	1507.0	1350.6	1122.4	951.6	921.7	925.6
60°	10672.7	7168.6	2057.1	1221.5	1375.3	1411.8	1341.4	1114.6	942.5	891.7	895.6
62.5°	11203.3	7201.2	1969.8	1145.9	1263.2	1318.0	1321.9	1108.1	917.7	830.4	830.4
65°	11551.4	7060.4	1817.2	1059.8	1142.0	1221.5	1284.1	1085.9	873.4	786.1	786.1
67.5°	11537.1	6658.9	1578.7	949.0	1024.6	1114.6	1229.3	1048.1	820.0	731.3	735.2
70°	11000.0	5866.3	1276.2	820.0	895.6	999.9	1158.9	992.1	756.1	671.4	679.2
72.5°	9434.3	4591.4	926.9	668.8	745.7	881.2	1067.7	924.3	690.9	617.9	614.0
75°	6739.7	2905.8	628.3	513.6	580.1	747.0	954.3	844.7	631.0	620.5	585.3
77.5°	3442.9	1388.4	415.9	375.4	404.1	589.2	801.7	754.8	640.1	512.3	456.3
80°	1119.8	512.3	262.0	255.5	268.5	392.4	620.5	619.2	484.9	348.1	307.7
82.5°	357.2	220.3	170.8	164.3	157.7	246.4	432.8	490.2	327.2	220.3	219.0
85°	142.1	131.7	100.4	92.6	66.5	116.0	226.8	325.9	243.8	159.0	163.0
87.5°	52.1	52.1	27.4	19.6	14.3	39.1	61.3	97.8	139.5	82.1	80.8
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)