

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: P954842

Luminaire Tested: **GALN-SB8A-722-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954842
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-722-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30366 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 227.1
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

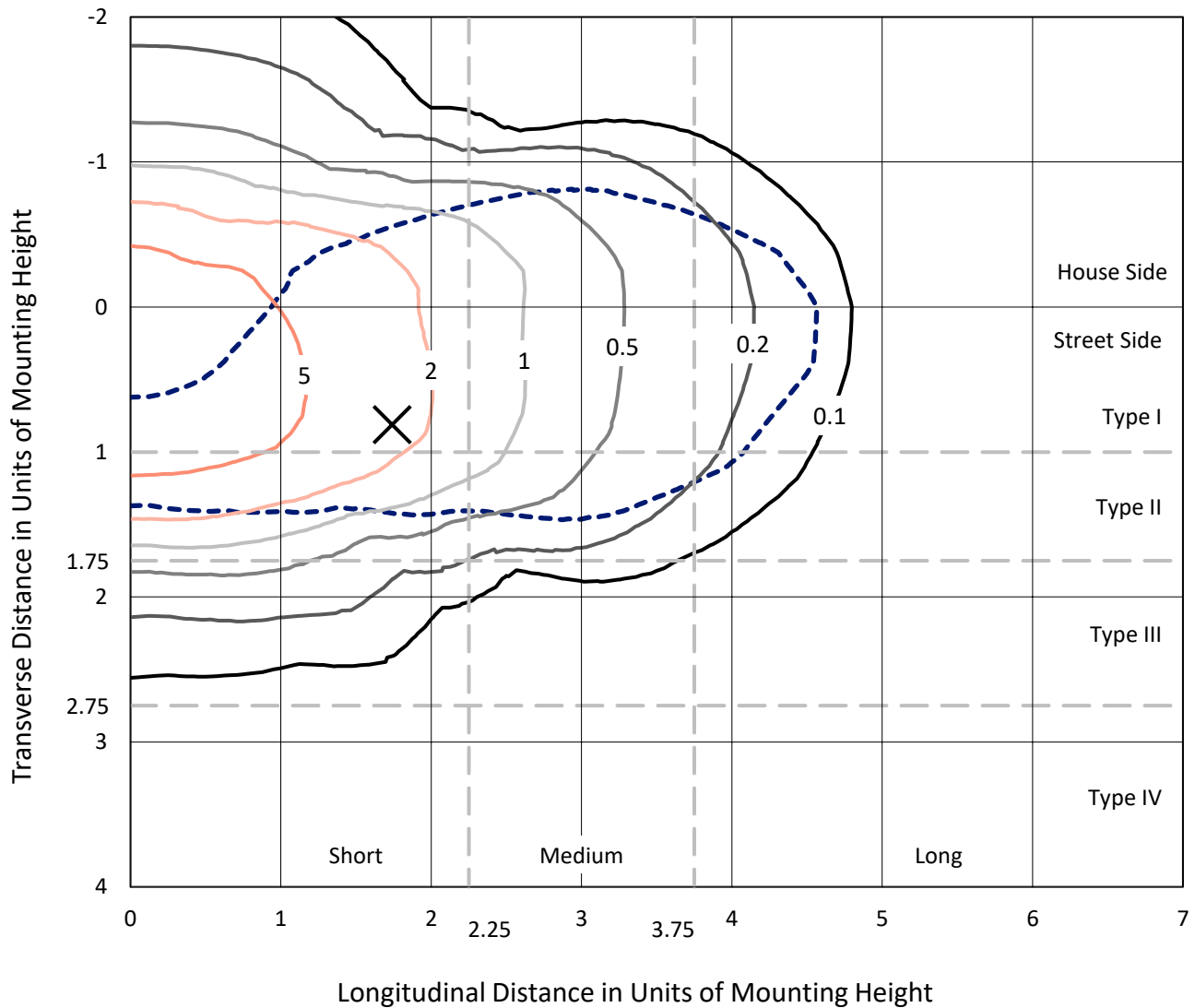


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

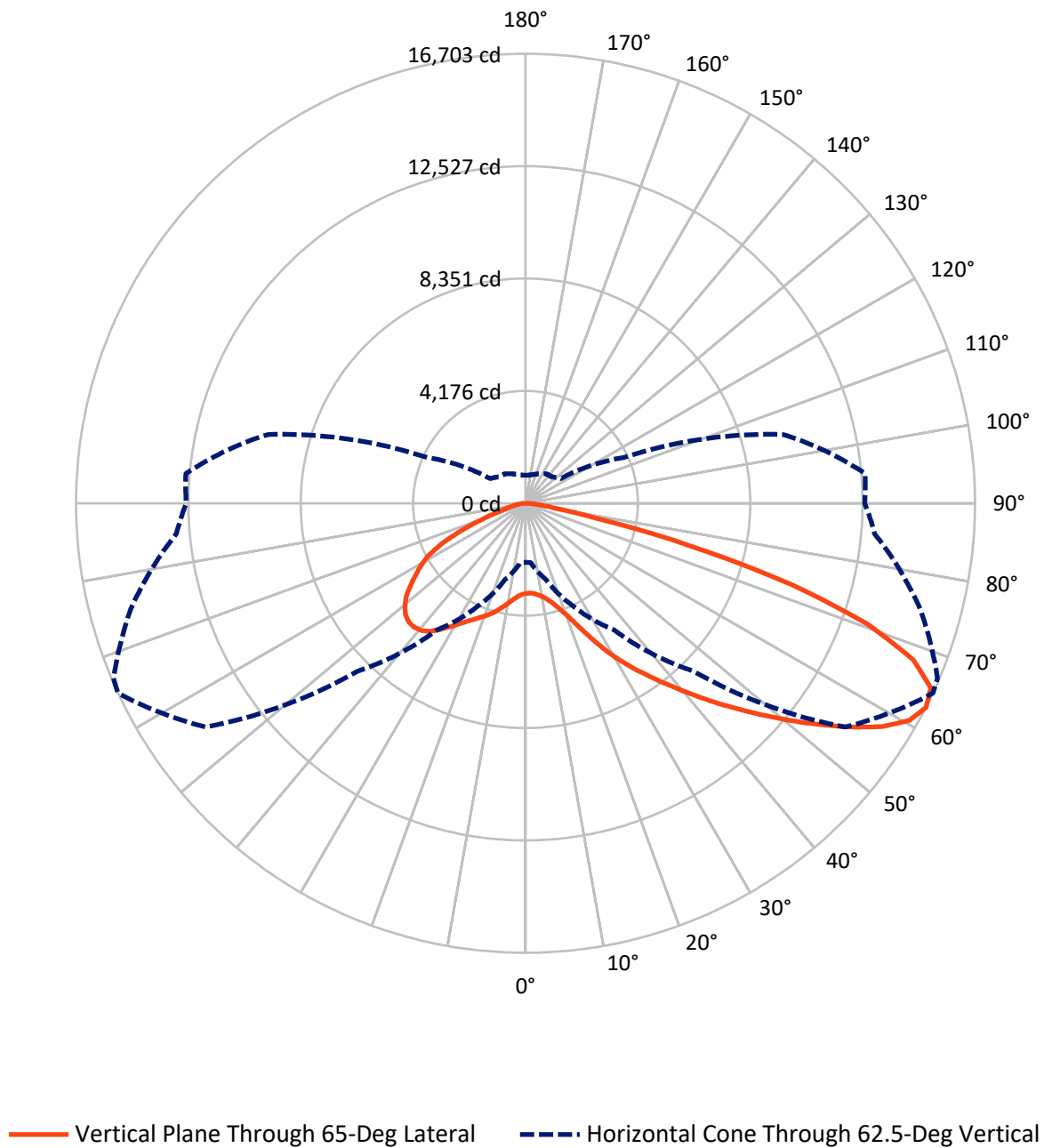


Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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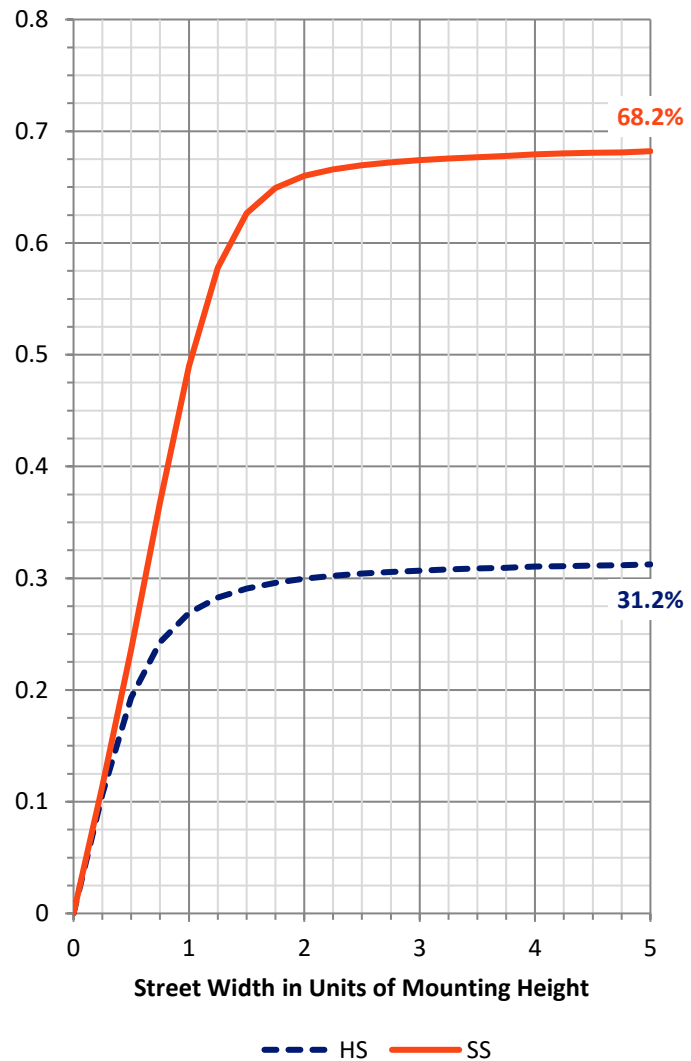
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9582.2	0.0	9582.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	20783.8	0.0	20783.8
	% Fixture	68.4	0.0	68.4
Total	Lumens	30366.0	0.0	30366.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.6	1.1
10°-20°	1131.3	3.7
20°-30°	2293.9	7.6
30°-40°	3969.5	13.1
40°-50°	6007.0	19.8
50°-60°	7042.9	23.2
60°-70°	5904.6	19.4
70°-80°	3259.8	10.7
80°-90°	423.4	1.4
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°	30366.0	100.0
0°-180°	30366.0	100.0

Coefficient of Utilization



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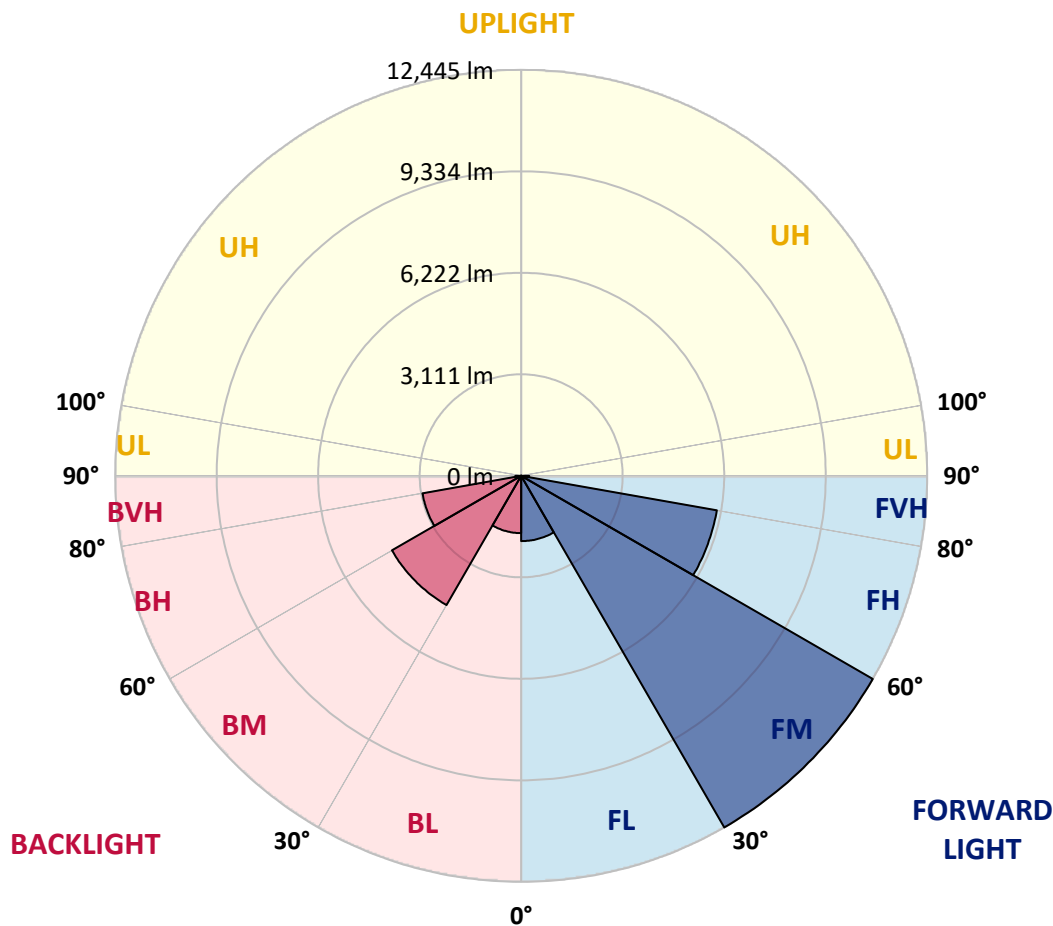
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2001.5	6.6			
FM	(30°-60°)	12445.0	41.0			
FH	(60°-80°)	6090.5	20.1			G3/7500
FVH	(80°-90°)	246.8	0.8			G3/500
BL	(0°-30°)	1757.3	5.8	B3/2500		
BM	(30°-60°)	4574.4	15.1	B3/5000		
BH	(60°-80°)	3073.9	10.1	B4/5000		G4/5000
BVH	(80°-90°)	176.6	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3346.2	3346.2	3346.2	3346.2	3346.2	3346.2	3346.2	3346.2	3346.2	3346.2	3346.2
2.5°	3324.1	3314.7	3322.6	3322.6	3325.7	3324.1	3335.2	3338.3	3343.1	3352.5	3352.5
5°	3291.1	3289.5	3303.7	3316.3	3328.9	3339.9	3354.1	3374.6	3377.7	3388.7	3402.9
7.5°	3280.0	3270.6	3292.6	3308.4	3338.3	3365.1	3402.9	3437.6	3451.8	3456.5	3483.3
10°	3365.1	3349.4	3369.8	3379.3	3404.5	3431.3	3475.4	3530.5	3546.3	3565.2	3595.1
12.5°	3510.0	3492.7	3522.6	3536.8	3560.5	3584.1	3614.0	3667.6	3675.5	3710.1	3738.5
15°	3708.5	3688.1	3707.0	3724.3	3763.7	3785.7	3815.7	3867.7	3867.7	3894.4	3914.9
17.5°	3977.9	3951.2	3965.3	3971.6	3996.9	4029.9	4080.3	4126.0	4149.7	4140.2	4111.9
20°	4379.7	4346.6	4346.6	4315.1	4305.6	4332.4	4398.6	4461.6	4486.8	4438.0	4368.7
22.5°	4983.1	4935.8	4909.0	4801.9	4759.4	4762.5	4828.7	4905.9	4926.4	4839.7	4683.7
25°	5750.3	5676.3	5640.0	5482.5	5386.4	5302.9	5354.9	5454.1	5482.5	5375.3	5123.3
27.5°	6517.5	6522.3	6487.6	6298.5	6139.4	5986.6	5959.8	6063.8	6093.7	5972.4	5660.5
30°	7593.5	7481.7	7415.5	7188.7	6961.8	6747.5	6637.3	6679.8	6687.7	6542.7	6180.4
32.5°	8521.5	8493.1	8351.3	8152.8	7861.4	7525.8	7341.5	7273.7	7261.1	7054.8	6624.7
35°	9578.6	9562.8	9413.2	9176.8	8861.8	8395.4	8063.0	7869.2	7853.5	7563.6	7064.2
37.5°	10653.0	10653.0	10506.5	10248.1	9922.0	9339.1	8833.4	8526.2	8475.8	8097.7	7511.6
40°	11510.1	11458.1	11484.8	11376.1	11002.8	10383.6	9688.9	9243.0	9175.3	8721.5	7987.4
42.5°	11996.9	11979.5	12140.2	12261.5	12108.7	11614.0	10631.0	10019.7	9925.2	9408.4	8535.6
45°	12105.6	12086.7	12373.4	12817.7	13031.9	12828.7	11655.0	10837.3	10722.3	10126.8	9123.3
47.5°	11855.1	11817.3	12237.9	12939.0	13625.8	13983.5	12764.1	11724.3	11557.3	10826.3	9726.7
50°	11102.0	11065.8	11702.3	12633.3	13825.9	14768.0	13967.7	12664.8	12409.6	11576.2	10336.4
52.5°	9465.2	9482.5	10479.7	11759.0	13562.8	15256.4	15004.3	13655.8	13348.6	12343.5	10908.2
55°	7373.0	7410.8	8636.5	10044.9	12510.4	15182.4	15711.7	14676.7	14371.0	13065.0	11499.0
57.5°	5279.2	5446.2	6594.7	7989.0	10489.2	14008.7	15866.1	15647.1	15350.9	13852.7	12077.2
60°	3421.8	3451.8	4633.3	6038.6	7987.4	11922.8	15552.6	16382.8	16151.3	14656.2	12560.9
62.5°	2193.0	2213.5	2933.4	4223.7	5748.7	8820.8	14497.1	16702.6	16631.8	15187.1	13025.6
65°	1611.7	1595.9	1970.9	2791.7	3872.4	5439.9	12447.4	16548.3	16688.5	15519.5	13410.0
67.5°	1345.4	1323.4	1507.7	1933.0	2853.1	3089.4	9209.9	15544.7	16058.3	15481.7	13692.0
70°	1225.7	1206.8	1318.6	1435.2	2226.1	2068.5	4642.8	13514.0	14304.9	15051.6	13646.3
72.5°	1038.2	1005.1	1157.9	1274.5	1731.4	1586.5	1918.9	10380.5	11344.6	13673.1	13003.6
75°	805.0	783.0	913.7	1121.7	1301.3	1238.3	1213.1	6303.3	7355.7	10574.2	11376.1
77.5°	638.0	608.1	727.8	874.4	1170.5	934.2	883.8	2714.5	3757.4	6750.7	8512.0
80°	480.5	453.7	553.0	691.6	899.6	704.2	571.9	1107.5	1416.3	3420.2	4280.4
82.5°	341.9	318.2	386.0	507.3	605.0	631.7	351.3	620.7	697.9	1318.6	956.3
85°	219.0	204.8	258.4	318.2	384.4	406.5	214.3	324.5	356.0	543.5	398.6
87.5°	119.7	97.7	138.6	148.1	178.0	162.3	102.4	118.2	127.6	196.9	168.6
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°	3346.2	3346.2	3346.2	3346.2	3346.2	3346.2	3346.2	3346.2	3346.2	3346.2	3346.2
2.5°	3358.8	3363.5	3379.3	3384.0	3395.0	3409.2	3418.7	3428.1	3428.1	3437.6	3437.6
5°	3404.5	3415.5	3448.6	3465.9	3494.3	3522.6	3540.0	3560.5	3573.1	3579.4	3582.5
7.5°	3492.7	3510.0	3557.3	3587.2	3636.1	3675.5	3702.2	3730.6	3736.9	3754.2	3747.9
10°	3612.4	3632.9	3686.5	3743.2	3801.5	3850.3	3875.5	3896.0	3903.9	3907.1	3899.2
12.5°	3749.5	3779.4	3848.8	3918.1	3979.5	4022.1	4028.4	4023.6	4001.6	3982.7	3982.7
15°	3918.1	3944.9	4022.1	4097.7	4157.5	4165.4	4126.0	4100.8	4074.0	4069.3	4069.3
17.5°	4119.7	4133.9	4204.8	4278.9	4283.6	4256.8	4198.5	4174.9	4149.7	4132.3	4133.9
20°	4354.5	4349.7	4400.2	4431.7	4398.6	4316.7	4228.4	4189.1	4163.8	4143.4	4144.9
22.5°	4634.9	4598.7	4592.4	4584.5	4496.3	4324.5	4204.8	4154.4	4115.0	4086.7	4096.1
25°	5042.9	4904.3	4808.2	4754.6	4556.1	4282.0	4129.2	4017.3	3943.3	3894.4	3913.4
27.5°	5553.4	5320.2	5077.6	4946.8	4556.1	4195.4	3946.4	3765.3	3644.0	3593.5	3618.7
30°	6040.2	5796.0	5438.4	5178.4	4545.1	4053.6	3651.8	3399.8	3258.0	3207.6	3237.5
32.5°	6456.1	6189.8	5821.2	5432.1	4518.3	3823.6	3286.3	3007.5	2870.4	2810.6	2840.5
35°	6842.1	6558.5	6205.6	5710.9	4447.4	3486.4	2884.6	2671.9	2519.1	2423.0	2454.5
37.5°	7237.5	6900.4	6569.5	5963.0	4319.8	3092.6	2575.8	2394.6	2215.0	2085.9	2120.5
40°	7667.6	7264.3	6958.6	6112.6	4110.3	2717.6	2336.4	2170.9	1980.3	1843.2	1870.0
42.5°	8170.2	7700.7	7391.9	6189.8	3823.6	2451.4	2180.4	2018.1	1838.5	1726.7	1748.7
45°	8694.8	8181.2	7787.3	6188.3	3503.7	2326.9	2130.0	1969.3	1770.8	1654.2	1673.1
47.5°	9244.6	8683.7	8129.2	6087.4	3226.5	2344.2	2101.6	1863.7	1644.7	1531.3	1547.1
50°	9796.0	9233.6	8460.0	5898.4	3108.3	2306.4	1996.1	1715.6	1457.3	1354.9	1361.2
52.5°	10342.7	9818.0	8745.2	5629.0	2988.6	2166.2	1860.6	1523.4	1380.1	1309.2	1309.2
55°	10892.5	10396.2	9055.5	5236.7	2689.2	2002.4	1633.7	1451.0	1318.6	1254.0	1247.7
57.5°	11443.9	11064.2	9350.1	4844.4	2312.7	1800.7	1509.3	1362.7	1257.2	1202.0	1192.6
60°	12017.3	11828.3	9654.2	4483.7	1940.9	1542.3	1417.9	1291.8	1184.7	1123.3	1118.6
62.5°	12608.1	12669.6	9892.1	4018.9	1599.1	1384.8	1336.0	1206.8	1102.8	1044.5	1042.9
65°	13203.6	13480.9	10048.1	3374.6	1296.6	1235.1	1247.7	1113.8	1008.3	957.9	956.3
67.5°	13652.6	14065.4	10003.9	2553.8	1063.4	1093.3	1137.5	1016.1	916.9	877.5	879.1
70°	13703.0	13996.1	9569.1	1748.7	890.1	954.7	1014.6	920.0	817.6	789.3	790.9
72.5°	13031.9	13050.8	8357.6	1142.2	753.1	838.1	885.4	822.4	723.1	694.8	693.2
75°	11272.2	10793.2	6136.3	753.1	630.2	720.0	764.1	720.0	623.9	630.2	608.1
77.5°	8540.4	7644.0	3725.9	535.6	526.2	605.0	664.8	633.3	551.4	619.1	545.1
80°	4400.2	4135.5	1662.1	400.2	415.9	483.7	546.7	505.7	436.4	415.9	379.7
82.5°	1008.3	1172.1	655.4	286.7	300.9	348.2	417.5	379.7	313.5	264.7	261.5
85°	352.9	386.0	289.9	179.6	176.4	217.4	283.6	253.6	212.7	170.1	179.6
87.5°	111.9	146.5	108.7	72.5	75.6	97.7	130.8	119.7	99.3	64.6	67.7
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)