

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: P943477

Luminaire Tested: **GALN-SB8A-722-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
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-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29985 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - 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

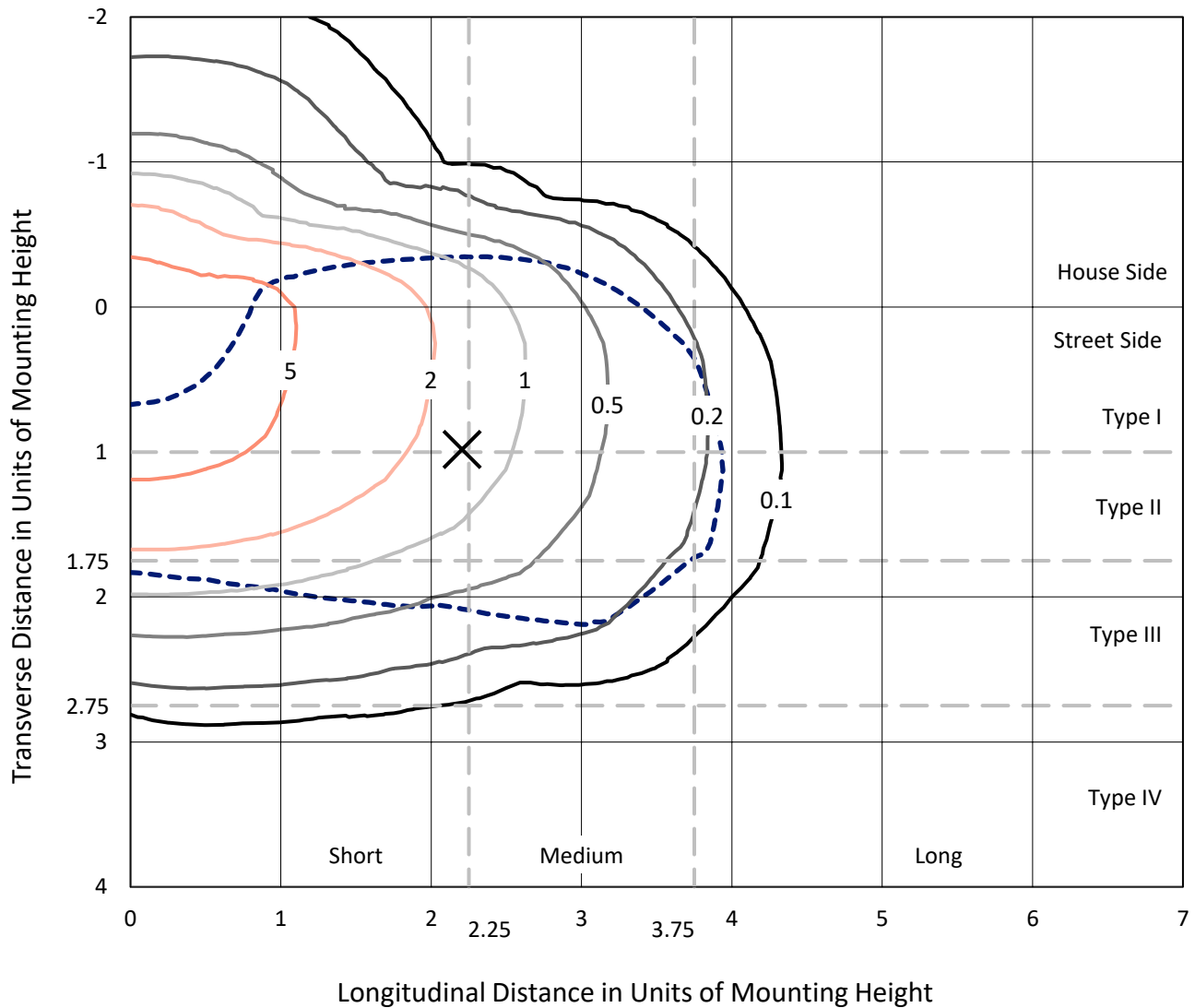


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

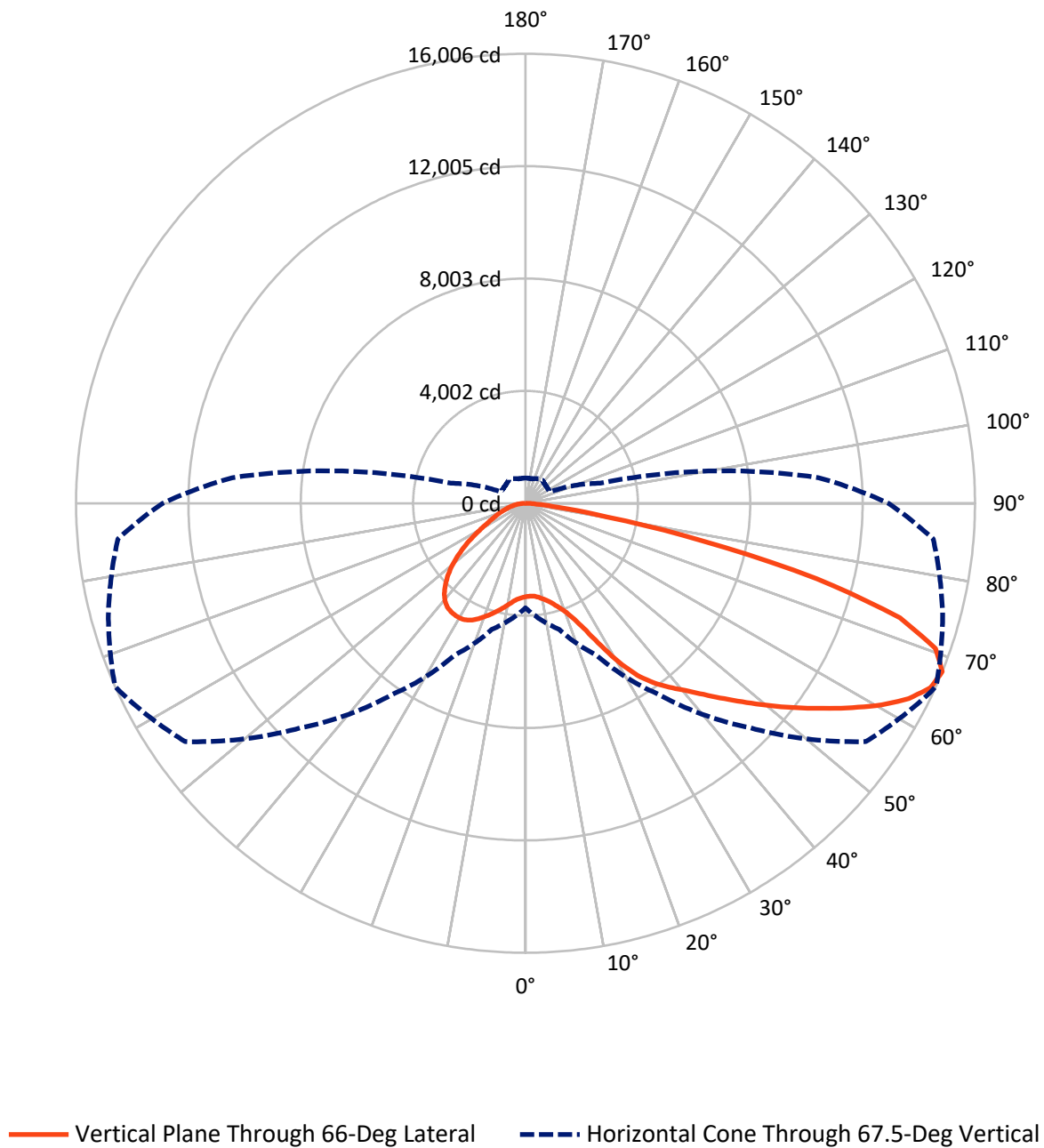


Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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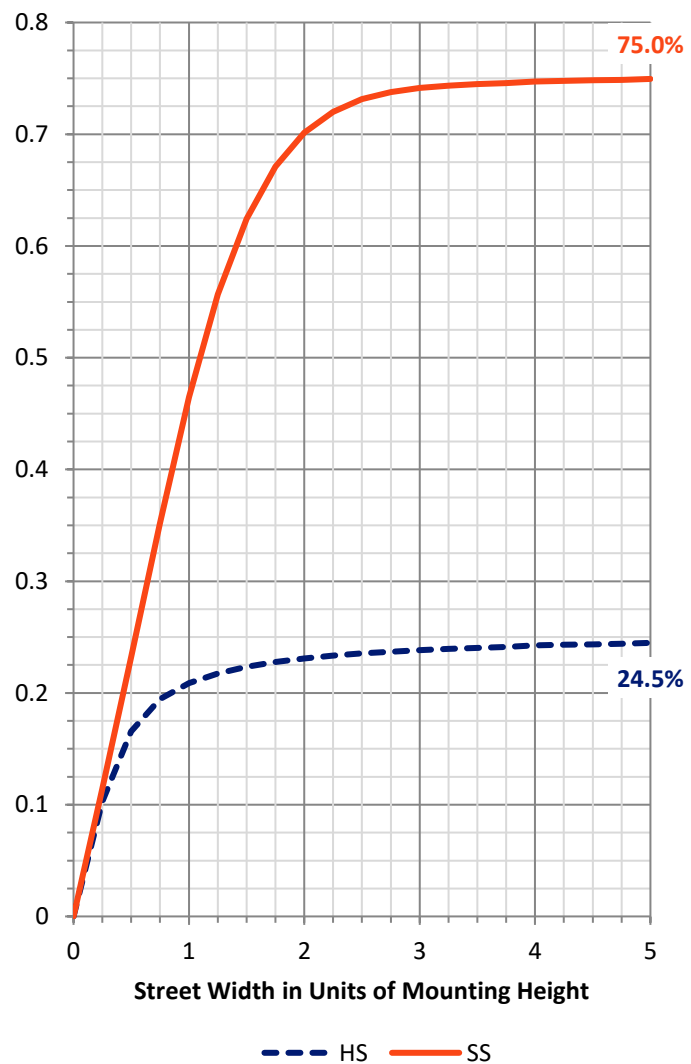
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7455.7	0.0	7455.7
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	22529.3	0.0	22529.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	29985.0	0.0	29985.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.7	1.1
10°-20°	1089.4	3.6
20°-30°	2099.7	7.0
30°-40°	3681.6	12.3
40°-50°	5473.4	18.3
50°-60°	6938.0	23.1
60°-70°	6788.7	22.6
70°-80°	3238.3	10.8
80°-90°	346.1	1.2
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°	29985.0	100.0
0°-180°	29985.0	100.0

Coefficient of Utilization



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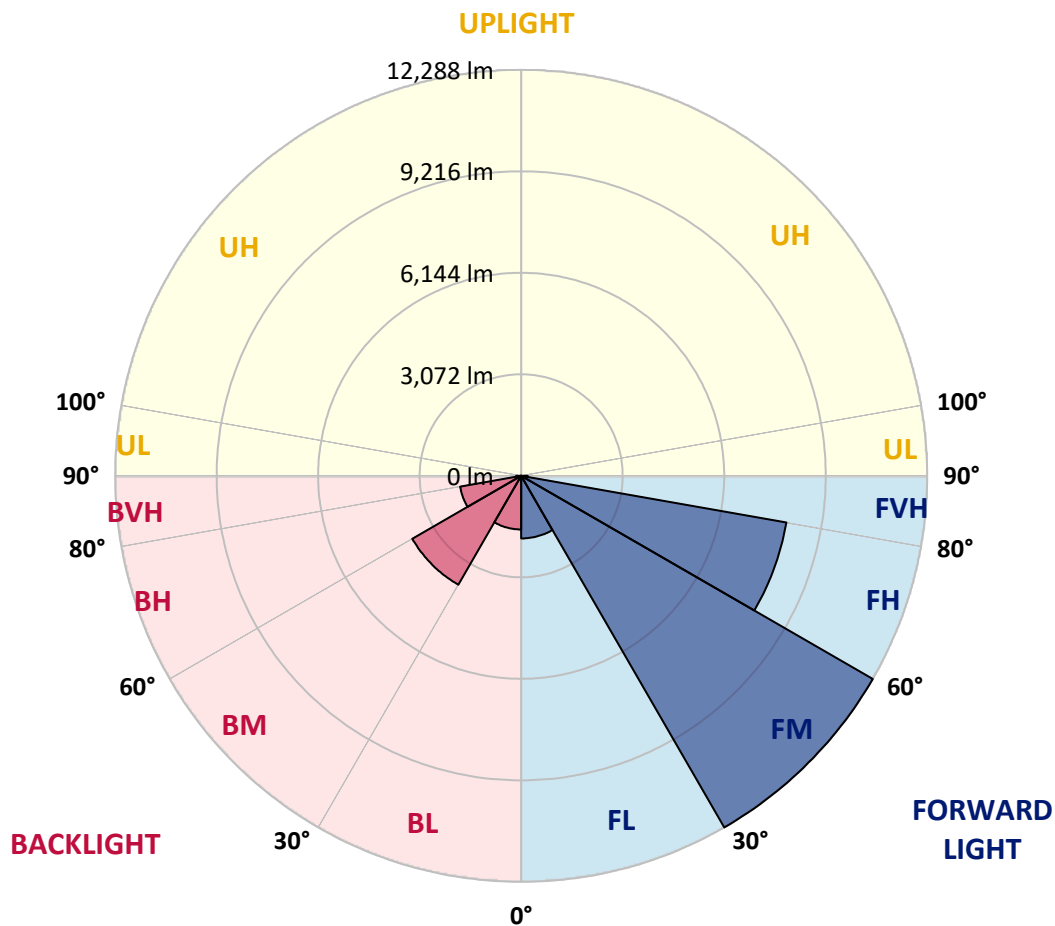
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1894.8	6.3			
FM	(30°-60°)	12287.6	41.0			
FH	(60°-80°)	8150.7	27.2			G4/12000
FVH	(80°-90°)	196.2	0.7			G2/225
BL	(0°-30°)	1624.1	5.4	B3/2500		
BM	(30°-60°)	3805.5	12.7	B3/5000		
BH	(60°-80°)	1876.2	6.3	B3/2500		G3/2500
BVH	(80°-90°)	149.9	0.5			G2/225
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3325.7	3325.7	3325.7	3325.7	3325.7	3325.7	3325.7	3325.7	3325.7	3325.7	3325.7
2.5°	3291.1	3310.0	3305.3	3297.4	3295.8	3299.0	3303.7	3308.4	3306.8	3314.7	3327.3
5°	3281.6	3300.5	3299.0	3299.0	3305.3	3317.9	3325.7	3333.6	3325.7	3335.2	3352.5
7.5°	3287.9	3302.1	3308.4	3314.7	3330.5	3354.1	3373.0	3390.3	3380.9	3391.9	3414.0
10°	3368.3	3379.3	3385.6	3385.6	3396.6	3423.4	3442.3	3473.8	3465.9	3483.3	3511.6
12.5°	3514.8	3525.8	3525.8	3519.5	3527.4	3544.7	3551.0	3585.7	3571.5	3599.9	3628.2
15°	3694.4	3716.4	3699.1	3688.1	3691.2	3708.6	3707.0	3733.8	3719.6	3743.2	3768.4
17.5°	3892.9	3921.2	3892.9	3891.3	3885.0	3903.9	3905.5	3929.1	3903.9	3921.2	3938.6
20°	4127.6	4167.0	4143.4	4151.3	4137.1	4145.0	4152.8	4187.5	4148.1	4160.7	4156.0
22.5°	4458.5	4505.7	4480.5	4510.5	4501.0	4494.7	4493.1	4554.6	4493.1	4497.9	4452.2
25°	4940.5	4997.3	4953.2	4994.1	4994.1	5014.6	5038.2	5117.0	5014.6	4984.7	4866.5
27.5°	5652.6	5709.4	5622.7	5647.9	5640.0	5690.5	5665.2	5860.6	5750.3	5701.5	5463.6
30°	6509.7	6610.5	6446.7	6440.4	6432.5	6512.8	6549.1	6678.2	6566.4	6517.6	6230.8
32.5°	7436.0	7541.6	7346.2	7289.5	7259.6	7308.4	7278.5	7382.5	7305.3	7229.6	6875.2
35°	8415.9	8519.9	8334.0	8223.7	8104.0	8001.6	7894.5	7921.3	7848.8	7733.8	7366.7
37.5°	9342.3	9532.9	9336.0	9217.8	8997.3	8797.2	8497.9	8373.4	8305.7	8200.1	7829.9
40°	10286.0	10394.7	10245.0	10144.2	9904.7	9591.2	9112.3	8849.2	8757.8	8655.4	8341.9
42.5°	10980.7	11084.7	11004.4	10935.1	10747.6	10383.7	9764.5	9435.3	9302.9	9187.9	8921.7
45°	11532.1	11609.3	11558.9	11584.1	11503.8	11150.9	10440.4	10063.8	9926.8	9786.6	9577.0
47.5°	11754.3	11836.2	11916.6	12066.2	12203.3	11943.3	11166.6	10744.4	10599.5	10456.1	10249.7
50°	11729.1	11812.6	12045.7	12364.0	12789.3	12702.7	11932.3	11469.1	11335.2	11171.4	10980.7
52.5°	11527.4	11621.9	11921.3	12450.6	13128.1	13271.4	12712.1	12217.5	12091.4	11896.1	11705.4
55°	10998.1	11054.8	11503.8	12253.7	13208.4	13668.4	13476.2	13014.6	12888.6	12616.0	12408.1
57.5°	10016.6	10098.5	10752.3	11722.8	13006.8	13937.8	14147.4	13852.8	13731.4	13339.2	13121.8
60°	8735.8	8866.5	9614.8	10831.1	12493.2	13936.3	14757.1	14676.7	14575.9	14051.3	13824.4
62.5°	7286.4	7437.6	8157.6	9570.7	11595.2	13540.8	15138.3	15366.7	15314.8	14708.2	14418.3
65°	5595.9	5699.9	6416.7	7940.2	10197.8	12691.7	15182.4	15837.8	15847.3	15207.6	14728.7
67.5°	3725.9	4025.2	4647.5	5958.3	8326.1	11303.7	14794.9	15915.0	16006.4	15379.3	14572.7
70°	1818.0	2211.9	2821.6	3872.4	5958.3	9175.3	13781.9	15281.7	15484.9	14878.4	13643.2
72.5°	754.6	882.2	1214.7	1911.0	3420.3	6191.4	11746.4	13564.5	13941.0	13183.2	11470.7
75°	508.9	551.4	694.8	979.9	1558.1	3053.2	8471.1	10114.3	10720.8	9956.7	8138.7
77.5°	392.3	419.1	505.7	685.3	926.4	1154.8	4534.1	6095.3	6408.8	5933.1	4234.8
80°	308.8	329.3	378.1	499.4	657.0	617.6	1545.5	2761.7	2942.9	2468.7	1361.2
82.5°	267.8	275.7	271.0	338.7	436.4	360.8	507.3	1019.3	1124.9	816.1	444.3
85°	193.8	215.8	225.3	209.5	231.6	182.7	208.0	360.8	397.0	354.5	250.5
87.5°	78.8	116.6	143.4	135.5	85.1	52.0	64.6	105.6	121.3	132.3	81.9
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°	3325.7	3325.7	3325.7	3325.7	3325.7	3325.7	3325.7	3325.7	3325.7	3325.7	3325.7
2.5°	3328.9	3339.9	3347.8	3357.2	3363.5	3373.0	3391.9	3402.9	3404.5	3412.4	3410.8
5°	3358.8	3374.6	3391.9	3417.1	3445.5	3469.1	3505.3	3530.5	3540.0	3547.9	3546.3
7.5°	3423.4	3445.5	3477.0	3521.1	3562.0	3593.6	3637.7	3667.6	3697.5	3708.6	3710.1
10°	3519.5	3551.0	3596.7	3656.6	3700.7	3741.6	3787.3	3812.5	3842.5	3855.1	3861.4
12.5°	3639.2	3672.3	3732.2	3815.7	3856.7	3885.0	3900.8	3894.5	3900.8	3911.8	3914.9
15°	3776.3	3812.5	3880.3	3970.1	3998.4	3973.2	3938.6	3907.1	3902.3	3905.5	3916.5
17.5°	3938.6	3965.4	4044.1	4119.7	4099.3	3995.3	3919.7	3869.3	3844.0	3836.2	3847.2
20°	4165.4	4165.4	4230.0	4277.3	4140.2	3963.8	3845.6	3763.7	3711.7	3689.7	3684.9
22.5°	4441.1	4415.9	4456.9	4423.8	4132.4	3875.6	3711.7	3569.9	3491.2	3459.6	3454.9
25°	4790.9	4760.9	4749.9	4545.1	4075.6	3735.3	3469.1	3297.4	3228.1	3210.7	3213.9
27.5°	5318.7	5243.0	5099.7	4611.3	3971.7	3514.8	3185.5	3026.4	2987.0	2988.6	2993.3
30°	6021.3	5870.1	5518.7	4622.3	3801.5	3202.8	2895.6	2782.2	2763.3	2771.2	2798.0
32.5°	6671.9	6528.6	5947.2	4571.9	3540.0	2897.2	2635.7	2560.1	2531.7	2541.2	2553.8
35°	7182.4	7143.0	6344.3	4501.0	3218.6	2610.5	2402.5	2337.9	2282.8	2270.2	2279.6
37.5°	7664.5	7648.7	6642.0	4401.8	2900.4	2407.3	2215.1	2130.0	2049.6	2005.5	2007.1
40°	8193.8	8178.1	6837.4	4248.9	2618.4	2230.8	2046.5	1934.6	1835.4	1755.0	1762.9
42.5°	8789.3	8696.4	6930.3	4029.9	2378.9	2081.1	1909.4	1758.2	1627.4	1553.4	1558.1
45°	9440.0	9230.4	6928.7	3751.1	2177.2	1944.1	1762.9	1548.6	1427.3	1358.0	1354.9
47.5°	10130.0	9740.9	6843.7	3442.3	1981.9	1792.8	1536.0	1372.2	1291.9	1249.3	1239.9
50°	10842.1	10218.2	6698.7	3087.8	1781.8	1621.1	1394.3	1282.4	1221.0	1181.6	1167.4
52.5°	11511.7	10651.5	6523.9	2686.1	1578.6	1454.1	1331.2	1244.6	1180.0	1135.9	1117.0
55°	12134.0	11024.9	6276.5	2274.9	1413.2	1342.3	1301.3	1228.8	1154.8	1102.8	1082.3
57.5°	12686.9	11267.5	5849.6	1888.9	1295.0	1265.1	1269.8	1202.1	1117.0	1072.9	1044.5
60°	13147.0	11445.5	5217.8	1531.3	1198.9	1189.4	1221.0	1151.6	1052.4	1002.0	979.9
62.5°	13422.7	11442.3	4442.7	1254.0	1117.0	1120.1	1156.4	1088.6	987.8	940.5	926.4
65°	13399.0	11161.9	3592.0	1072.9	1038.2	1041.4	1088.6	1019.3	934.2	905.9	904.3
67.5°	12924.8	10478.2	2755.4	954.7	951.6	965.7	1020.9	972.0	901.1	898.0	902.7
70°	11640.9	9058.7	1985.0	860.2	861.8	882.2	954.7	942.1	883.8	890.1	888.5
72.5°	9334.4	6906.7	1332.8	760.9	762.5	795.6	891.7	918.5	866.5	950.0	962.6
75°	6216.6	4307.2	857.0	655.4	657.0	699.5	836.6	872.8	819.2	946.8	954.7
77.5°	2987.0	1936.2	620.7	551.4	551.4	590.8	723.1	781.4	697.9	735.7	674.3
80°	1031.9	727.8	488.4	444.3	434.8	461.6	609.7	677.4	601.8	554.6	519.9
82.5°	406.5	378.1	392.3	345.0	313.5	330.8	474.2	559.3	442.7	400.2	398.6
85°	233.2	245.8	277.3	228.4	181.2	203.2	348.2	401.7	334.0	294.6	300.9
87.5°	63.0	86.6	127.6	118.2	81.9	86.6	165.4	222.1	192.2	148.1	152.8
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)