

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: P949867

Luminaire Tested: **GALN-SB4C-727-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949867
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-727-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28580 lumens
Efficiency: N/A
Efficacy: 142.4 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



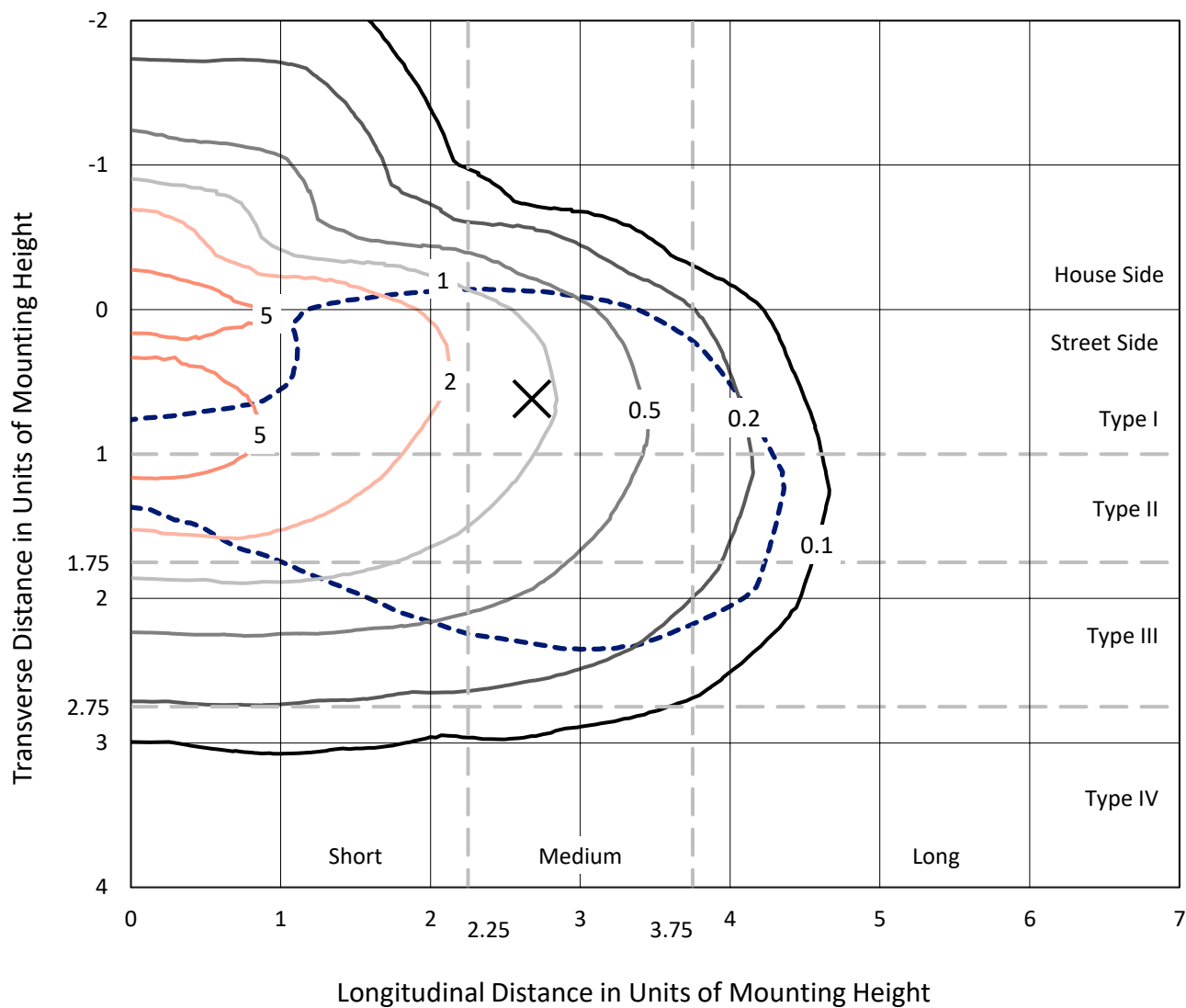
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Iso-Footcandle Lines of Horizontal Illumination

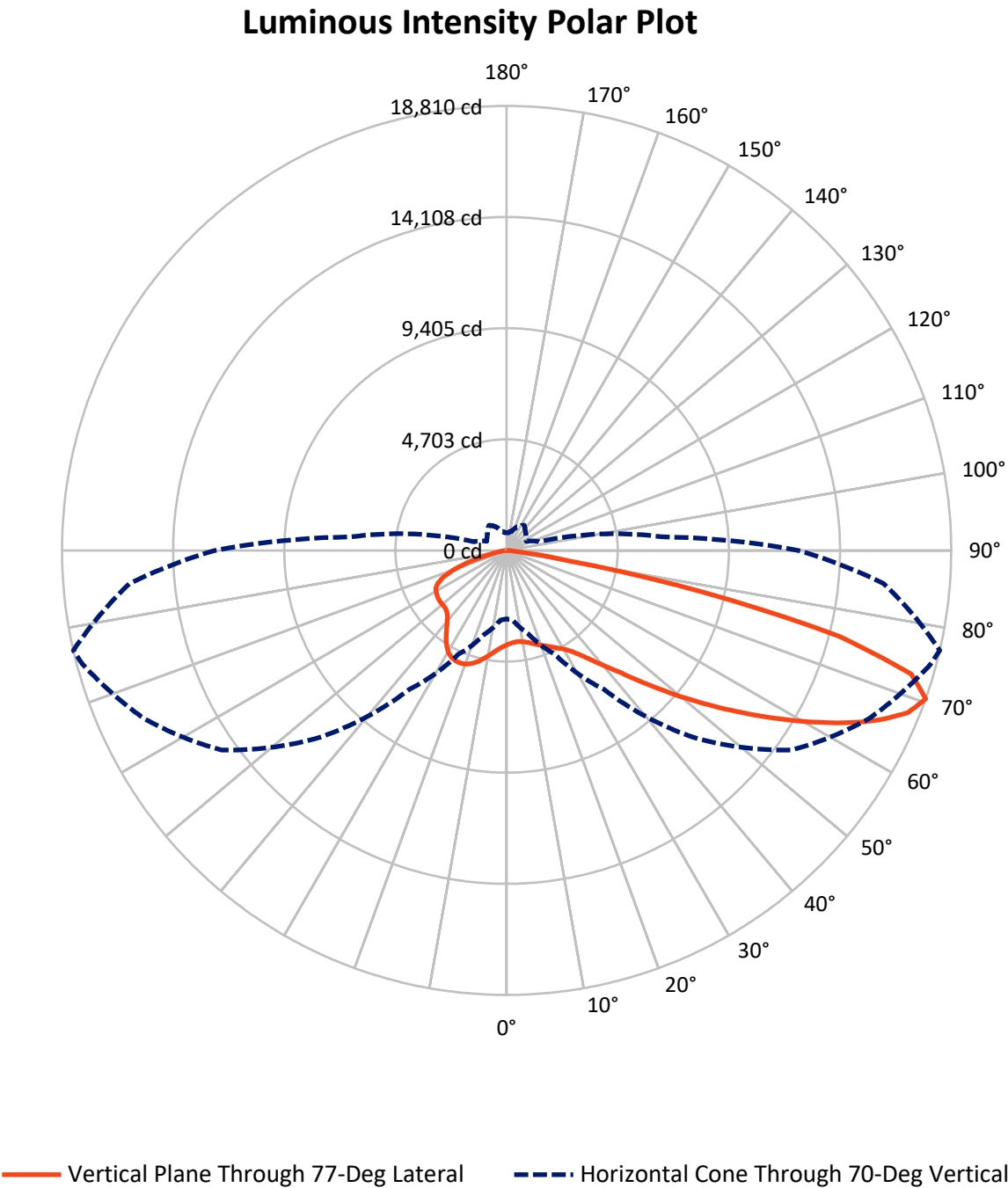
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Medium - N/A

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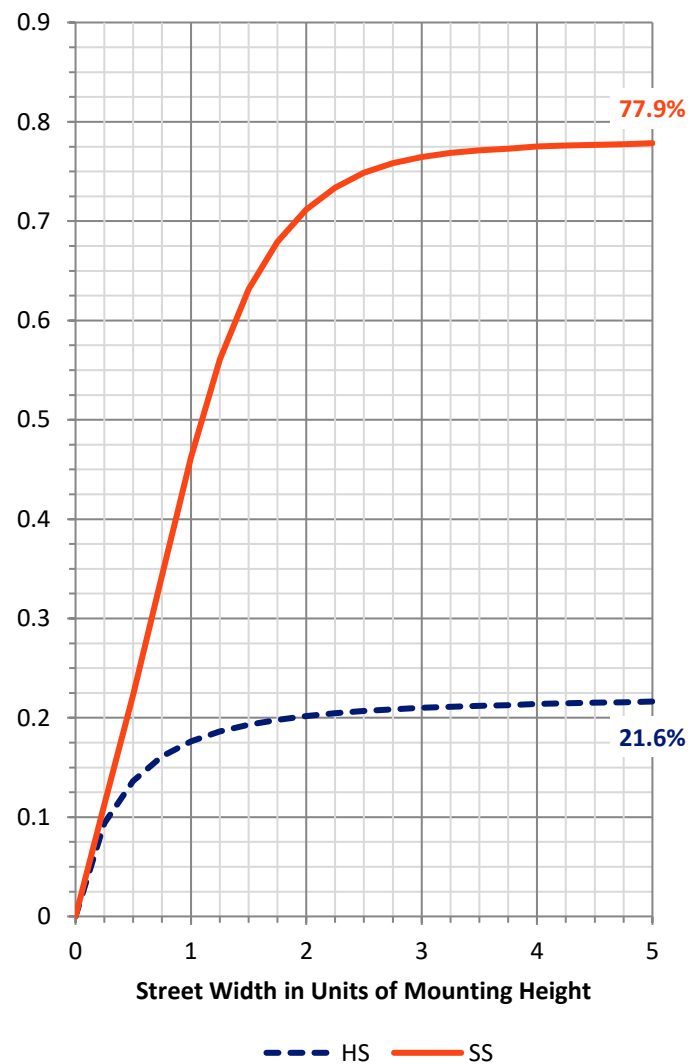
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6258.6	0.0	6258.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	22321.4	0.0	22321.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	28580.0	0.0	28580.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.3	1.3
10°-20°	1097.5	3.8
20°-30°	1876.9	6.6
30°-40°	3018.2	10.6
40°-50°	4712.2	16.5
50°-60°	6294.4	22.0
60°-70°	6708.8	23.5
70°-80°	4129.9	14.5
80°-90°	361.9	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°	28580.0	100.0
0°-180°	28580.0	100.0

Coefficient of Utilization



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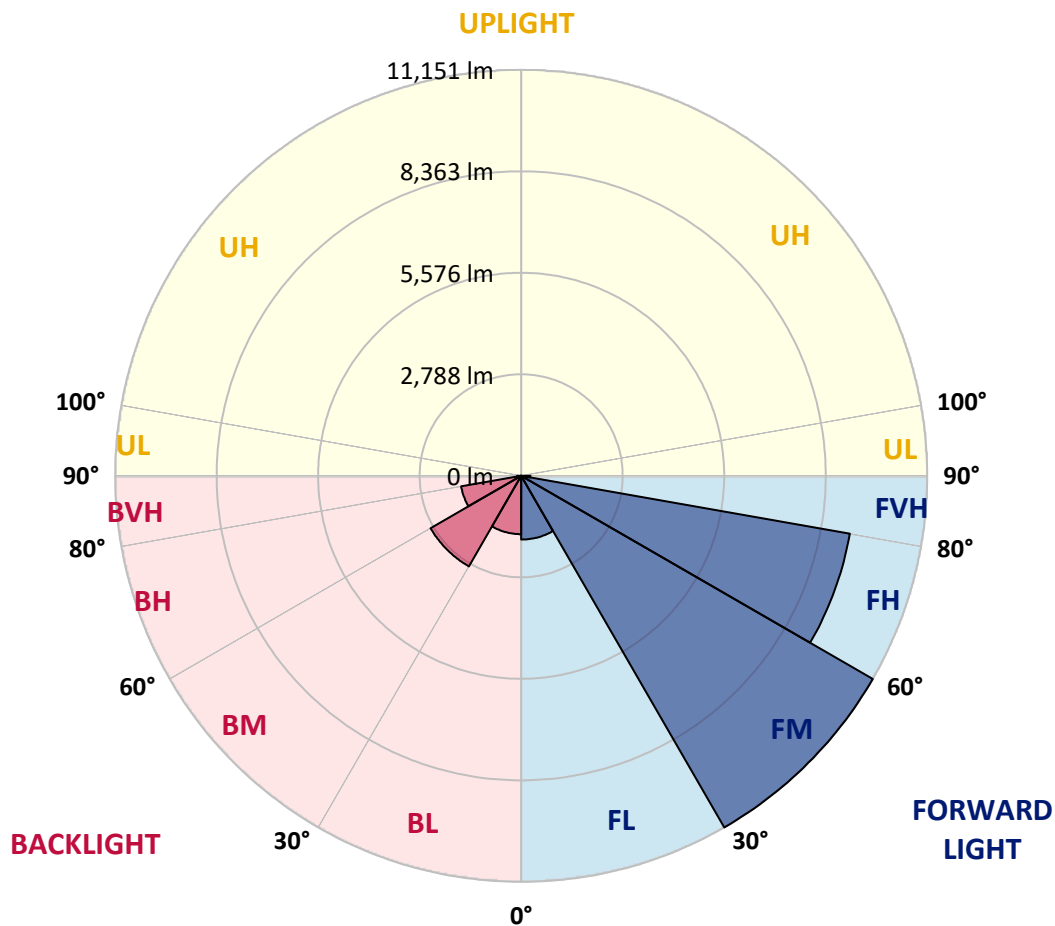
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1751.0	6.1			
FM	(30°-60°)	11151.3	39.0			
FH	(60°-80°)	9166.1	32.1			G4/12000
FVH	(80°-90°)	253.1	0.9			G3/500
BL	(0°-30°)	1603.6	5.6	B3/2500		
BM	(30°-60°)	2873.5	10.1	B3/5000		
BH	(60°-80°)	1672.6	5.9	B3/2500		G3/2500
BVH	(80°-90°)	108.8	0.4			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3987.2	3987.2	3987.2	3987.2	3987.2	3987.2	3987.2	3987.2	3987.2	3987.2	3987.2
2.5°	3675.4	3673.9	3693.0	3698.8	3733.9	3758.8	3805.7	3855.4	3919.8	3927.2	3966.7
5°	3463.2	3463.2	3485.1	3508.5	3553.9	3603.7	3675.4	3761.8	3873.0	3890.6	3988.6
7.5°	3283.1	3294.8	3313.9	3359.2	3411.9	3483.7	3593.4	3716.4	3862.8	3890.6	4048.6
10°	3138.2	3151.4	3174.8	3211.4	3290.4	3390.0	3533.4	3691.5	3887.6	3931.5	4136.5
12.5°	3092.8	3106.0	3119.2	3147.0	3220.2	3337.3	3508.5	3703.2	3947.7	3991.6	4256.5
15°	3198.2	3214.3	3204.1	3196.8	3234.8	3341.7	3520.2	3745.7	4022.3	4085.2	4404.3
17.5°	3441.2	3447.1	3423.6	3354.8	3349.0	3406.1	3575.9	3804.2	4116.0	4184.8	4553.6
20°	3833.5	3823.2	3774.9	3638.8	3561.2	3549.5	3671.0	3892.0	4212.6	4285.8	4714.6
22.5°	4366.3	4354.6	4258.0	4042.8	3870.1	3755.9	3808.6	4006.2	4320.9	4402.9	4871.3
25°	5030.8	5014.7	4872.7	4580.0	4312.1	4029.6	3996.0	4157.0	4454.1	4530.2	5035.2
27.5°	5806.6	5793.4	5639.7	5253.3	4866.9	4404.3	4228.7	4334.1	4593.2	4679.5	5219.6
30°	6640.9	6679.0	6406.7	5991.0	5502.1	4893.2	4541.9	4552.2	4773.2	4850.8	5443.6
32.5°	7621.6	7687.5	7359.6	6832.6	6165.2	5424.5	4937.1	4856.6	5035.2	5099.6	5726.1
35°	8593.5	8668.1	8395.9	7813.3	7044.9	6051.0	5349.9	5206.4	5383.6	5453.8	6100.8
37.5°	9433.7	9533.2	9392.7	8886.2	7986.1	6806.3	5888.5	5617.8	5812.4	5900.3	6604.3
40°	10096.7	10249.0	10238.7	9922.6	9095.6	7722.6	6572.1	6125.7	6345.2	6440.4	7214.7
42.5°	10635.4	10767.1	10881.3	10865.2	10253.4	8763.3	7375.7	6785.8	6952.7	7062.4	7901.2
45°	11007.2	11147.7	11393.6	11658.5	11367.2	9877.2	8296.4	7568.9	7721.1	7886.5	8719.4
47.5°	11339.4	11499.0	11818.1	12238.2	12312.8	10995.5	9304.9	8480.8	8619.8	8791.1	9540.5
50°	11368.7	11506.3	12001.0	12596.8	12984.7	12069.8	10388.0	9503.9	9634.2	9817.2	10420.2
52.5°	10661.7	10878.4	11742.0	12586.5	13293.5	12968.6	11463.8	10568.1	10714.4	10934.0	11330.6
55°	8275.9	8593.5	10982.3	12194.2	13183.7	13549.6	12487.0	11699.5	11886.9	12116.7	12246.9
57.5°	7128.3	7267.4	8717.9	11479.9	12683.1	13700.4	13350.6	12842.7	13144.2	13396.0	13215.9
60°	6406.7	6522.3	7380.1	10369.0	12024.5	13461.8	14018.0	13908.3	14429.3	14729.4	14206.9
62.5°	5633.9	5743.6	6523.8	8657.9	11181.3	13065.2	14439.6	14891.9	15746.7	16074.6	15140.7
65°	4866.9	4960.5	5708.5	7274.7	10109.9	12668.5	14657.7	15742.3	16966.0	17305.6	15916.5
67.5°	4012.1	4089.6	4796.6	6137.4	8807.2	12125.4	14766.0	16411.2	18027.2	18318.4	16300.0
70°	2895.2	2955.2	3685.6	4853.7	7172.2	11191.6	14722.1	16885.5	18577.5	18810.3	16010.2
72.5°	1368.6	1422.7	2280.5	3151.4	5065.9	9373.7	13833.6	16509.3	18018.4	17902.7	14236.1
75°	730.4	777.2	1310.0	1728.7	2675.7	6425.7	11320.4	14221.5	15130.5	14568.4	10521.2
77.5°	494.7	531.3	810.9	1037.8	1222.2	3050.4	7276.1	9846.4	9473.2	8545.2	5269.4
80°	392.3	430.3	664.5	702.6	591.3	1102.2	3006.5	4558.0	3274.3	2618.6	1498.8
82.5°	301.5	344.0	559.1	509.4	322.0	452.3	875.3	1441.8	838.7	638.2	363.0
85°	184.4	229.8	439.1	324.9	181.5	206.4	297.1	401.1	256.2	213.7	130.3
87.5°	93.7	131.7	222.5	118.6	82.0	48.3	79.0	79.0	67.3	58.5	33.7
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°	3987.2	3987.2	3987.2	3987.2	3987.2	3987.2	3987.2	3987.2	3987.2	3987.2	3987.2
2.5°	4001.8	4031.1	4080.8	4127.7	4164.3	4199.4	4234.5	4253.6	4259.4	4282.8	4296.0
5°	4048.6	4102.8	4199.4	4290.2	4347.2	4382.4	4407.3	4421.9	4424.8	4432.1	4443.9
7.5°	4135.0	4221.4	4356.0	4446.8	4489.2	4486.3	4476.1	4439.5	4424.8	4411.6	4414.6
10°	4256.5	4370.7	4536.1	4599.0	4572.7	4502.4	4411.6	4304.8	4255.0	4206.7	4192.1
12.5°	4407.3	4552.2	4714.6	4711.7	4581.4	4401.4	4190.6	4026.7	3922.8	3848.1	3830.6
15°	4590.2	4757.1	4881.5	4782.0	4496.5	4173.1	3864.2	3650.5	3556.8	3474.9	3466.1
17.5°	4779.0	4957.6	5014.7	4760.0	4282.8	3834.9	3485.1	3316.8	3224.6	3180.7	3193.8
20°	4963.5	5140.6	5093.7	4634.1	3957.9	3451.4	3139.7	3047.5	3028.4	3038.7	3034.3
22.5°	5158.1	5316.2	5109.8	4391.2	3543.7	3059.2	2887.9	2890.8	2933.3	2964.0	2971.3
25°	5357.2	5464.1	5067.4	4039.9	3098.7	2770.8	2728.4	2775.2	2858.6	2918.7	2934.8
27.5°	5549.0	5595.8	4975.2	3605.1	2716.7	2564.4	2571.8	2668.4	2794.2	2877.7	2898.2
30°	5765.6	5712.9	4798.1	3116.3	2451.7	2387.3	2448.8	2561.5	2687.4	2762.0	2779.6
32.5°	6010.0	5813.9	4517.0	2664.0	2264.4	2245.3	2346.3	2419.5	2475.1	2497.1	2508.8
35°	6314.5	5955.9	4157.0	2346.3	2096.0	2141.4	2238.0	2201.4	2179.5	2167.8	2179.5
37.5°	6709.7	6147.6	3735.4	2140.0	1959.9	2066.8	2106.3	1992.1	1905.8	1863.3	1873.6
40°	7185.4	6428.7	3330.0	1980.4	1873.6	2002.4	1933.6	1796.0	1686.2	1626.2	1630.6
42.5°	7713.8	6722.9	2988.9	1860.4	1825.3	1949.7	1806.2	1642.3	1465.2	1446.2	1465.2
45°	8268.5	7025.9	2756.2	1768.2	1801.8	1904.3	1733.0	1468.1	1342.2	1419.8	1460.8
47.5°	8823.3	7304.0	2615.7	1699.4	1790.1	1853.1	1668.6	1371.5	1282.2	1394.9	1447.6
50°	9441.0	7552.8	2552.7	1649.6	1777.0	1832.6	1572.0	1346.6	1219.3	1293.9	1349.5
52.5°	10054.3	7746.0	2505.9	1599.8	1757.9	1816.5	1525.2	1317.3	1143.2	1147.6	1178.3
55°	10666.1	7871.9	2454.7	1534.0	1715.5	1781.3	1520.8	1285.1	1086.1	1065.6	1080.2
57.5°	11318.9	7943.6	2391.7	1460.8	1642.3	1692.1	1516.4	1260.3	1068.5	1034.8	1039.2
60°	11983.5	8049.0	2309.7	1371.5	1544.2	1585.2	1506.2	1251.5	1058.3	1001.2	1005.6
62.5°	12579.2	8085.6	2211.7	1286.6	1418.3	1479.8	1484.2	1244.2	1030.5	932.4	932.4
65°	12970.0	7927.5	2040.4	1190.0	1282.2	1371.5	1441.8	1219.3	980.7	882.6	882.6
67.5°	12953.9	7476.7	1772.6	1065.6	1150.5	1251.5	1380.3	1176.8	920.7	821.1	825.5
70°	12350.9	6586.7	1433.0	920.7	1005.6	1122.7	1301.2	1113.9	849.0	753.8	762.6
72.5°	10592.9	5155.2	1040.7	750.9	837.2	989.5	1198.8	1037.8	775.8	693.8	689.4
75°	7567.4	3262.6	705.5	576.7	651.4	838.7	1071.4	948.5	708.4	696.7	657.2
77.5°	3865.7	1558.9	466.9	421.6	453.8	661.6	900.2	847.5	718.7	575.2	512.3
80°	1257.3	575.2	294.2	286.9	301.5	440.6	696.7	695.3	544.5	390.8	345.4
82.5°	401.1	247.4	191.7	184.4	177.1	276.6	486.0	550.4	367.4	247.4	245.9
85°	159.5	147.8	112.7	103.9	74.6	130.3	254.7	365.9	273.7	178.6	183.0
87.5°	58.5	58.5	30.7	22.0	16.1	43.9	68.8	109.8	156.6	92.2	90.8
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)