

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: P452128

Luminaire Tested: **GALN-SA3A-740-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452128
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13970 lumens
Efficiency: N/A
Efficacy: 150.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

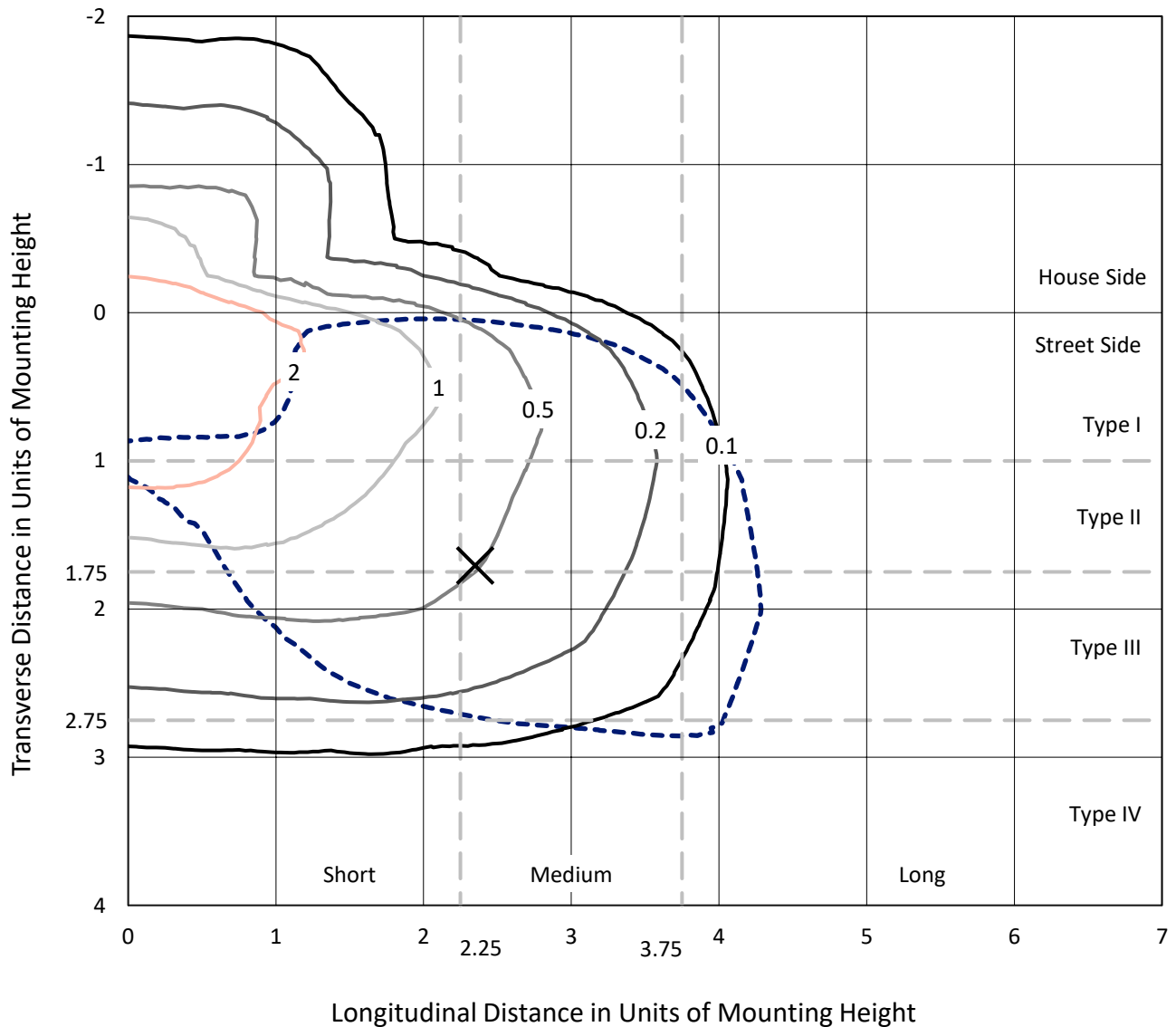
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

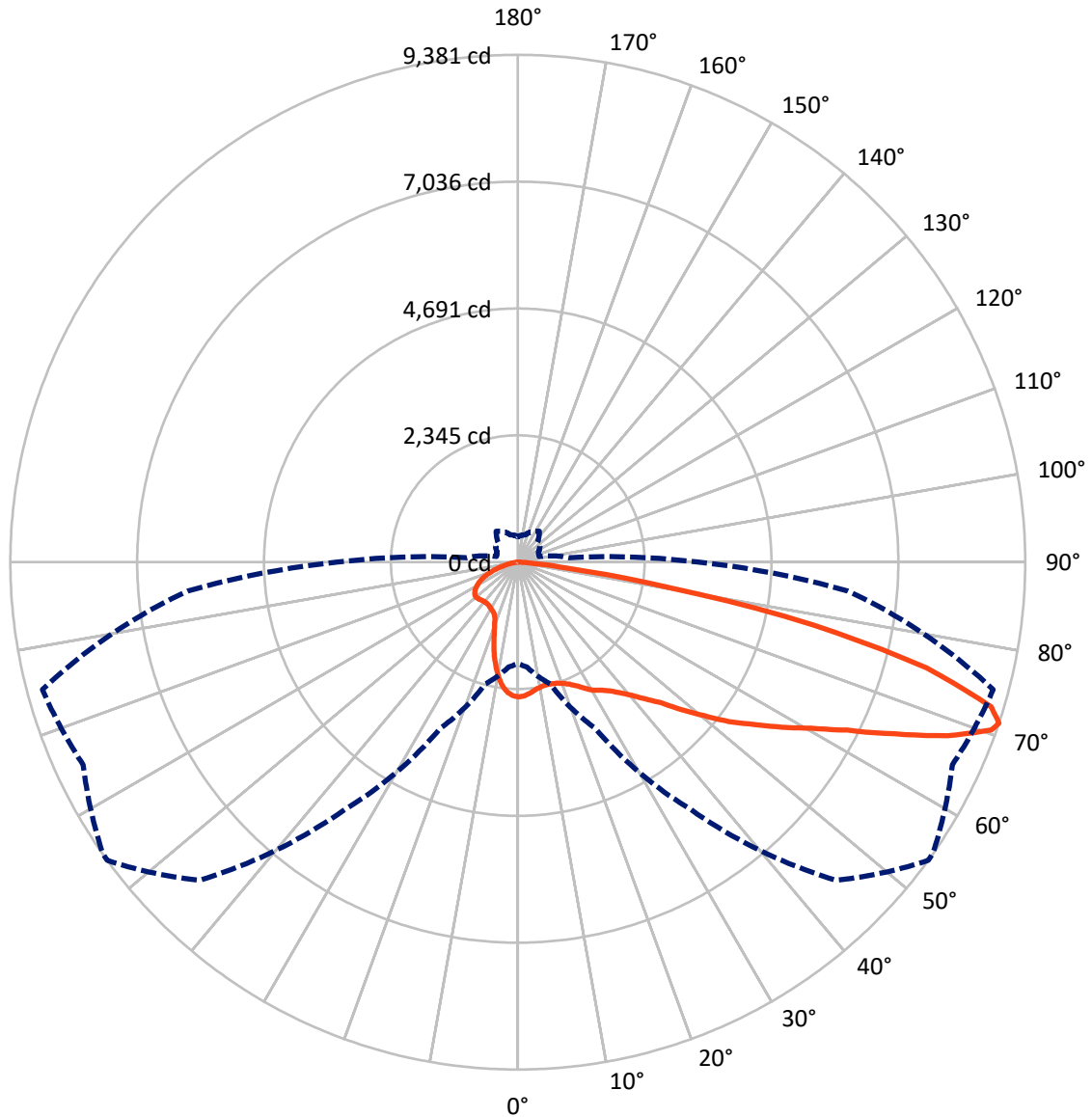
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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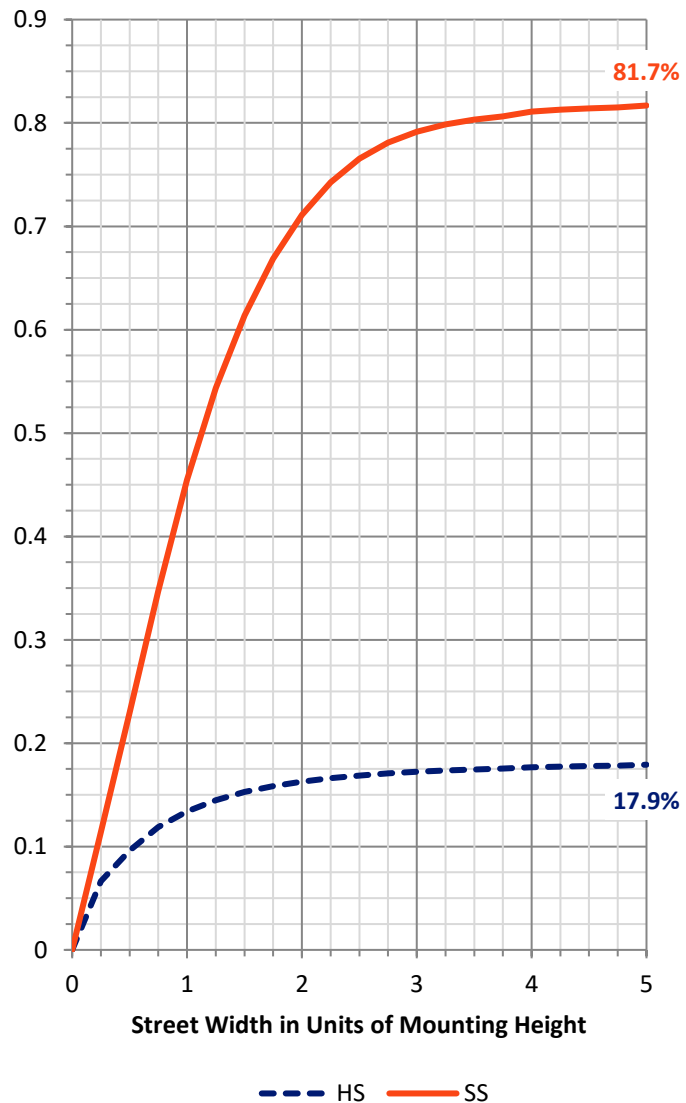
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2522.2	0.0	2522.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	11447.8	0.0	11447.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	13970.0	0.0	13970.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.1	1.6
10°-20°	586.5	4.2
20°-30°	976.5	7.0
30°-40°	1444.0	10.3
40°-50°	2033.9	14.6
50°-60°	2723.5	19.5
60°-70°	3432.7	24.6
70°-80°	2344.6	16.8
80°-90°	206.2	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°	13970.0	100.0
0°-180°	13970.0	100.0



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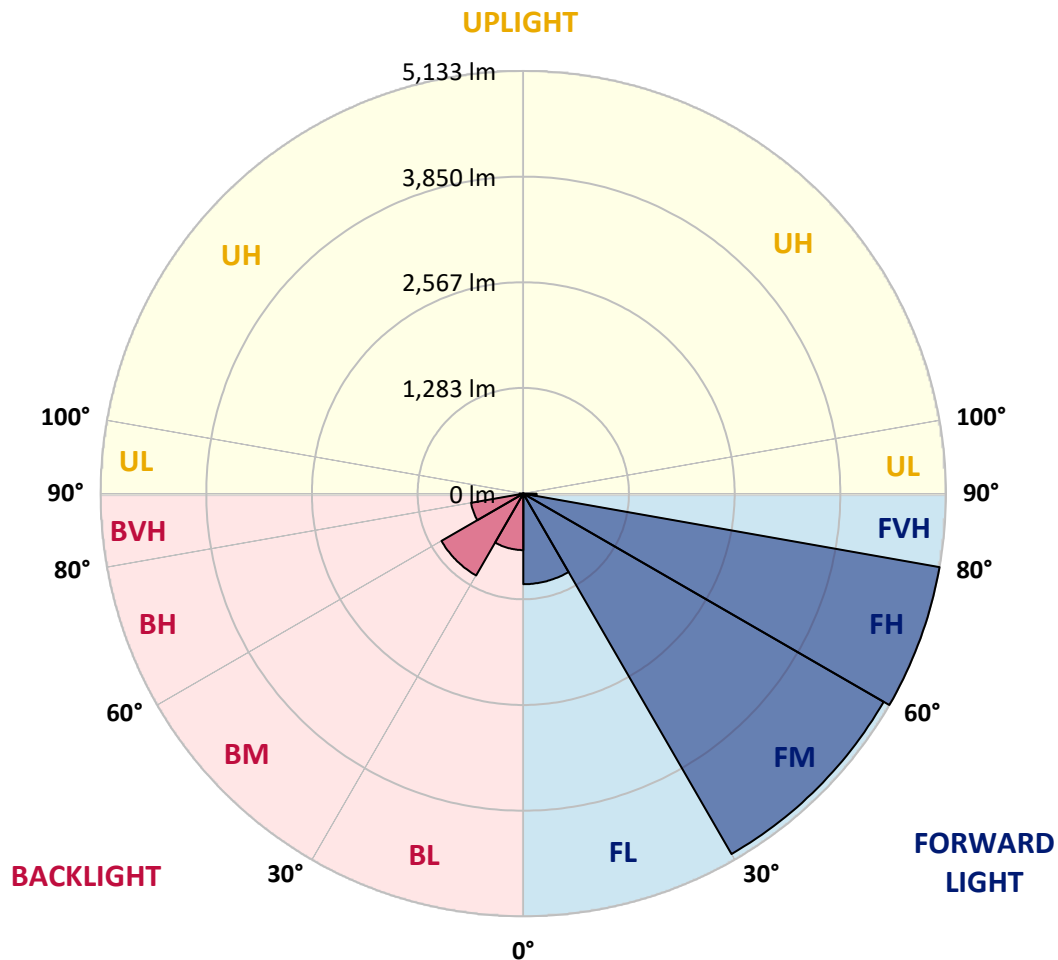
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1099.7	7.9			
FM	(30°-60°)	5053.8	36.2			
FH	(60°-80°)	5133.1	36.7			G3/7500
FVH	(80°-90°)	161.2	1.2			G2/225
BL	(0°-30°)	685.5	4.9	B2/1000		
BM	(30°-60°)	1147.5	8.2	B2/2500		
BH	(60°-80°)	644.2	4.6	B2/1000		G2/1000
BVH	(80°-90°)	45.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2492.5	2492.5	2492.5	2492.5	2492.5	2492.5	2492.5	2492.5	2492.5	2492.5	2492.5
2.5°	2407.9	2419.3	2422.3	2429.8	2445.7	2458.5	2471.3	2469.8	2487.9	2495.5	2502.3
5°	2300.8	2303.8	2315.1	2330.2	2358.1	2393.6	2428.3	2429.1	2473.6	2509.1	2526.4
7.5°	2222.3	2232.1	2239.7	2255.5	2284.9	2323.4	2378.5	2383.0	2462.3	2532.4	2569.4
10°	2171.0	2182.3	2190.6	2210.2	2239.7	2282.7	2342.3	2350.6	2454.0	2569.4	2634.3
12.5°	2124.2	2135.5	2143.1	2168.7	2207.2	2260.0	2327.2	2337.0	2457.0	2612.4	2705.3
15°	2152.9	2161.9	2158.9	2166.5	2192.1	2252.5	2333.2	2343.0	2468.3	2653.9	2775.4
17.5°	2280.4	2288.0	2263.1	2234.4	2222.3	2266.8	2352.1	2362.7	2490.9	2697.0	2847.1
20°	2468.3	2488.7	2434.4	2370.2	2312.1	2318.1	2391.3	2402.7	2522.6	2740.0	2920.3
22.5°	2712.8	2727.9	2661.5	2555.8	2448.7	2393.6	2450.2	2457.0	2570.2	2795.8	3000.3
25°	3000.3	3009.4	2917.3	2781.5	2626.8	2522.6	2530.9	2543.0	2648.7	2859.2	3071.2
27.5°	3279.5	3308.2	3201.8	3035.8	2832.0	2658.5	2641.9	2649.4	2733.9	2894.7	3120.3
30°	3610.8	3608.5	3496.1	3303.7	3042.6	2806.4	2746.8	2745.2	2780.0	2912.0	3155.8
32.5°	3874.9	3905.8	3795.7	3585.9	3283.3	2959.6	2819.2	2816.2	2815.4	2942.2	3208.6
35°	4175.2	4179.7	4078.6	3867.3	3543.6	3152.0	2920.3	2905.2	2887.9	3007.1	3280.3
37.5°	4443.9	4465.0	4372.2	4135.2	3799.4	3351.9	3059.2	3049.4	2996.5	3119.5	3395.0
40°	4653.6	4669.5	4613.6	4388.0	4051.5	3567.8	3235.7	3217.6	3153.5	3303.7	3548.1
42.5°	4722.3	4754.8	4776.6	4665.7	4341.2	3823.6	3453.1	3430.4	3381.4	3582.9	3724.7
45°	4727.6	4778.9	4894.4	4899.6	4632.5	4129.9	3706.6	3690.8	3687.0	3940.5	3973.0
47.5°	4687.6	4739.7	4933.6	5038.5	4892.1	4439.3	4072.6	4047.7	4050.0	4382.7	4251.4
50°	4591.0	4652.9	4888.3	5127.5	5095.1	4760.8	4459.0	4450.7	4497.4	4887.6	4540.4
52.5°	4409.1	4483.9	4841.5	5183.4	5246.0	5037.7	4898.1	4874.7	4993.2	5435.4	4856.6
55°	3905.8	4018.3	4670.2	5214.3	5389.4	5302.6	5293.5	5335.8	5492.8	6033.1	5204.5
57.5°	3643.2	3727.7	4298.2	5219.6	5570.5	5610.5	5755.4	5765.9	6040.6	6667.7	5597.6
60°	3499.9	3574.6	4094.5	5184.9	5823.3	5991.6	6227.7	6265.5	6575.6	7355.1	6005.1
62.5°	3374.6	3438.7	3972.2	5064.9	6108.5	6556.7	6839.7	6857.8	7183.1	8114.2	6407.3
65°	3079.5	3152.7	3726.2	4944.9	6354.5	7263.1	7651.7	7630.5	7829.8	8769.2	6659.4
67.5°	2681.9	2774.7	3266.7	4530.6	6476.0	8035.0	8566.3	8539.8	8468.2	9198.6	6731.8
70°	2174.0	2223.8	2678.8	3814.5	5990.8	8440.2	9288.4	9260.5	8863.6	9255.2	6389.2
71°	1870.7	1948.4	2332.5	3388.2	5587.1	8316.5	9381.2	9373.7	8864.3	9099.0	6131.2
72.5°	1460.2	1507.7	1847.3	2625.3	4748.7	7613.2	9151.8	9180.5	8671.9	8665.1	5599.2
75°	923.6	944.8	1159.1	1545.4	2605.6	5391.6	7812.4	7890.1	7700.0	7092.5	4163.9
77.5°	536.5	563.7	694.2	910.8	1125.9	2926.4	5590.1	5674.6	5350.1	3905.1	1704.6
80°	312.4	342.6	457.3	529.0	516.9	1085.9	2846.4	2990.5	2316.6	986.3	478.4
82.5°	173.6	193.9	321.5	322.2	275.4	354.7	895.7	937.2	661.0	397.7	195.4
85°	126.0	142.6	207.5	187.9	132.1	152.4	311.7	326.7	267.1	167.5	63.4
87.5°	44.5	63.4	113.9	90.6	36.2	31.7	89.8	73.2	67.9	46.8	14.3
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°	2492.5	2492.5	2492.5	2492.5	2492.5	2492.5	2492.5	2492.5	2492.5	2492.5	2492.5
2.5°	2506.0	2507.5	2500.0	2486.4	2472.8	2455.5	2435.9	2420.8	2414.0	2413.2	2412.5
5°	2533.2	2537.0	2508.3	2466.0	2419.3	2361.9	2312.9	2257.0	2242.7	2220.0	2226.8
7.5°	2577.0	2574.7	2518.1	2428.3	2318.9	2197.4	2094.8	2035.2	1973.3	1955.9	1956.7
10°	2639.6	2625.3	2518.1	2351.3	2168.7	1988.4	1845.0	1754.5	1705.4	1664.7	1649.6
12.5°	2706.0	2669.8	2494.0	2243.4	1975.6	1754.5	1600.5	1478.3	1446.6	1413.4	1414.1
15°	2769.4	2709.0	2446.4	2091.8	1767.3	1504.7	1355.3	1282.1	1272.3	1276.0	1275.3
17.5°	2826.7	2736.9	2374.0	1922.7	1524.3	1290.4	1211.1	1216.4	1242.8	1261.7	1264.0
20°	2884.8	2753.5	2266.1	1696.3	1294.9	1160.6	1163.6	1205.1	1245.1	1270.8	1274.5
22.5°	2939.9	2761.1	2139.3	1477.5	1128.9	1105.5	1150.0	1194.5	1233.8	1258.7	1262.5
25°	2976.2	2743.7	1959.7	1248.9	1047.4	1085.9	1132.7	1170.4	1203.6	1229.2	1235.3
27.5°	2986.0	2687.9	1737.1	1064.0	1009.7	1067.0	1110.0	1137.9	1163.6	1187.7	1192.3
30°	2980.7	2605.6	1492.6	955.3	987.8	1045.1	1078.3	1098.7	1129.6	1148.5	1152.3
32.5°	2972.4	2509.8	1237.5	897.2	969.7	1024.8	1044.4	1062.5	1061.7	1054.2	1059.5
35°	2975.4	2395.1	1030.8	862.5	953.8	1009.7	1026.3	1003.6	938.7	935.7	932.7
37.5°	2991.2	2281.9	880.6	838.4	945.5	1007.4	1016.5	912.3	855.0	828.6	821.8
40°	3032.0	2149.9	781.8	820.3	944.8	1024.8	971.9	866.3	756.1	704.8	701.0
42.5°	3086.3	2020.1	721.4	808.9	953.8	1051.2	953.8	801.4	681.4	651.2	646.7
45°	3167.1	1871.4	688.2	803.7	967.4	1061.0	947.8	753.8	651.2	627.1	627.1
47.5°	3258.4	1729.6	670.1	799.9	984.8	1054.2	894.2	738.8	636.9	639.9	654.2
50°	3348.9	1606.6	656.5	791.6	999.8	1050.4	872.3	738.0	640.7	679.1	704.8
52.5°	3453.8	1519.8	639.9	778.0	999.8	1026.3	865.5	753.1	651.2	662.5	673.9
55°	3580.6	1492.6	618.8	748.6	981.7	965.9	861.8	775.0	658.8	632.4	636.9
57.5°	3748.1	1536.4	598.4	711.6	940.2	903.3	860.2	781.0	641.4	619.5	615.0
60°	3942.8	1623.2	592.4	673.9	883.6	849.7	851.2	763.7	617.3	594.6	598.4
62.5°	4079.4	1675.2	588.6	645.2	821.8	790.8	829.3	742.5	606.7	587.1	590.9
65°	4079.4	1611.8	553.9	601.4	741.8	719.9	802.9	716.1	593.1	570.5	566.7
67.5°	3924.7	1427.0	501.1	535.8	653.5	639.1	765.9	684.4	572.7	555.4	546.3
70°	3521.7	1082.1	434.7	458.8	541.8	554.6	718.4	641.4	538.8	517.7	504.1
71°	3344.4	942.5	406.7	419.6	498.8	517.7	695.7	623.3	523.7	493.5	469.4
72.5°	3002.6	793.8	364.5	369.8	426.4	460.3	648.2	588.6	495.0	452.0	424.8
75°	2281.2	579.5	293.5	290.5	315.4	365.2	548.6	524.4	433.9	375.8	359.9
77.5°	985.5	315.4	219.6	221.9	214.3	276.9	431.6	450.5	372.0	305.6	291.3
80°	298.8	181.9	150.2	153.2	143.4	185.6	304.1	353.2	298.8	237.7	218.1
82.5°	153.2	108.7	102.6	101.1	91.3	104.9	184.1	241.5	213.6	148.7	131.3
85°	66.4	58.1	50.6	49.0	43.0	37.7	65.7	120.7	113.2	83.0	79.2
87.5°	16.6	15.1	9.8	9.1	5.3	0.8	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)