

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: P947689

Luminaire Tested: **GALN-SB3A-722-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-722-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11308 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 84.7
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

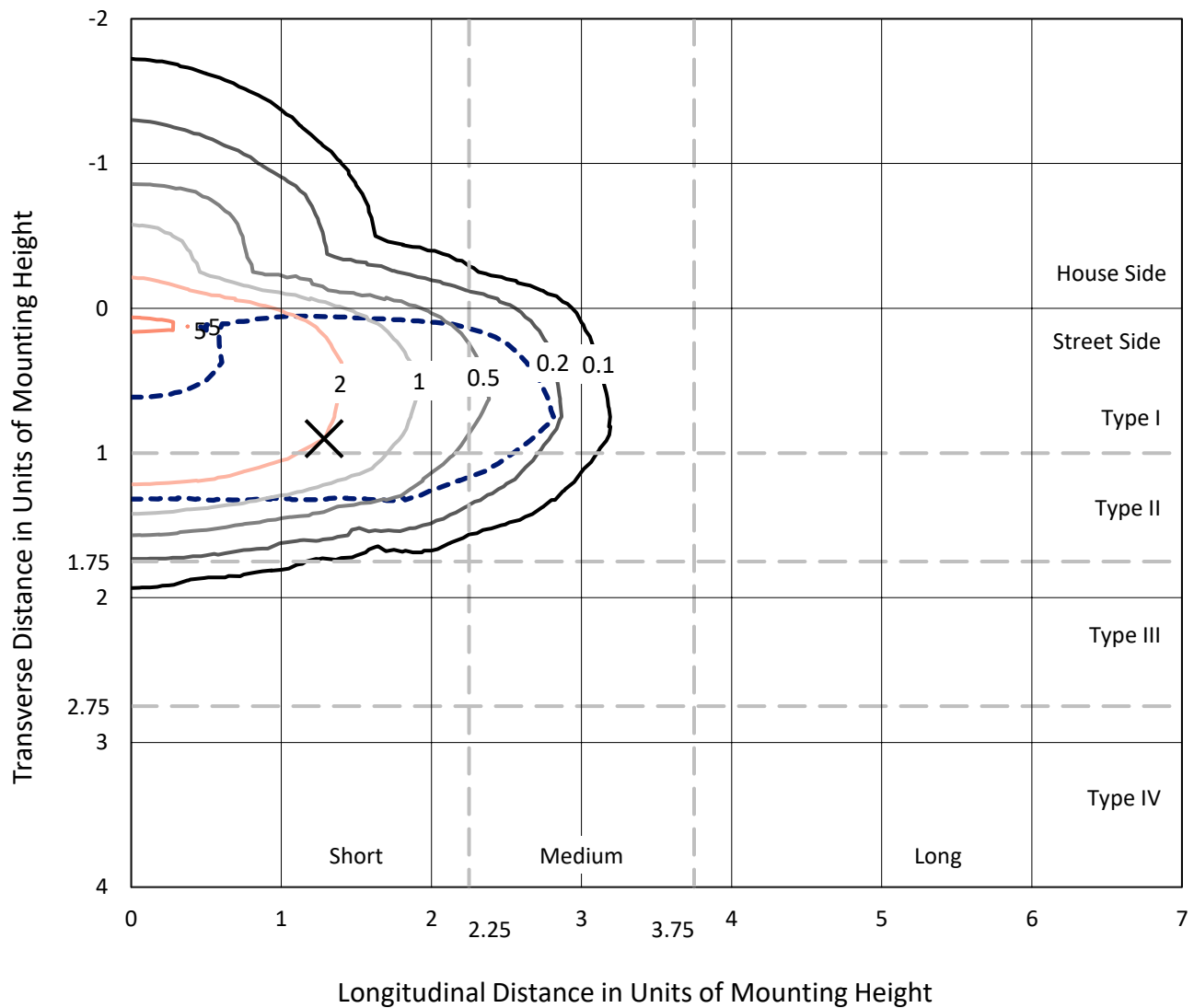


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

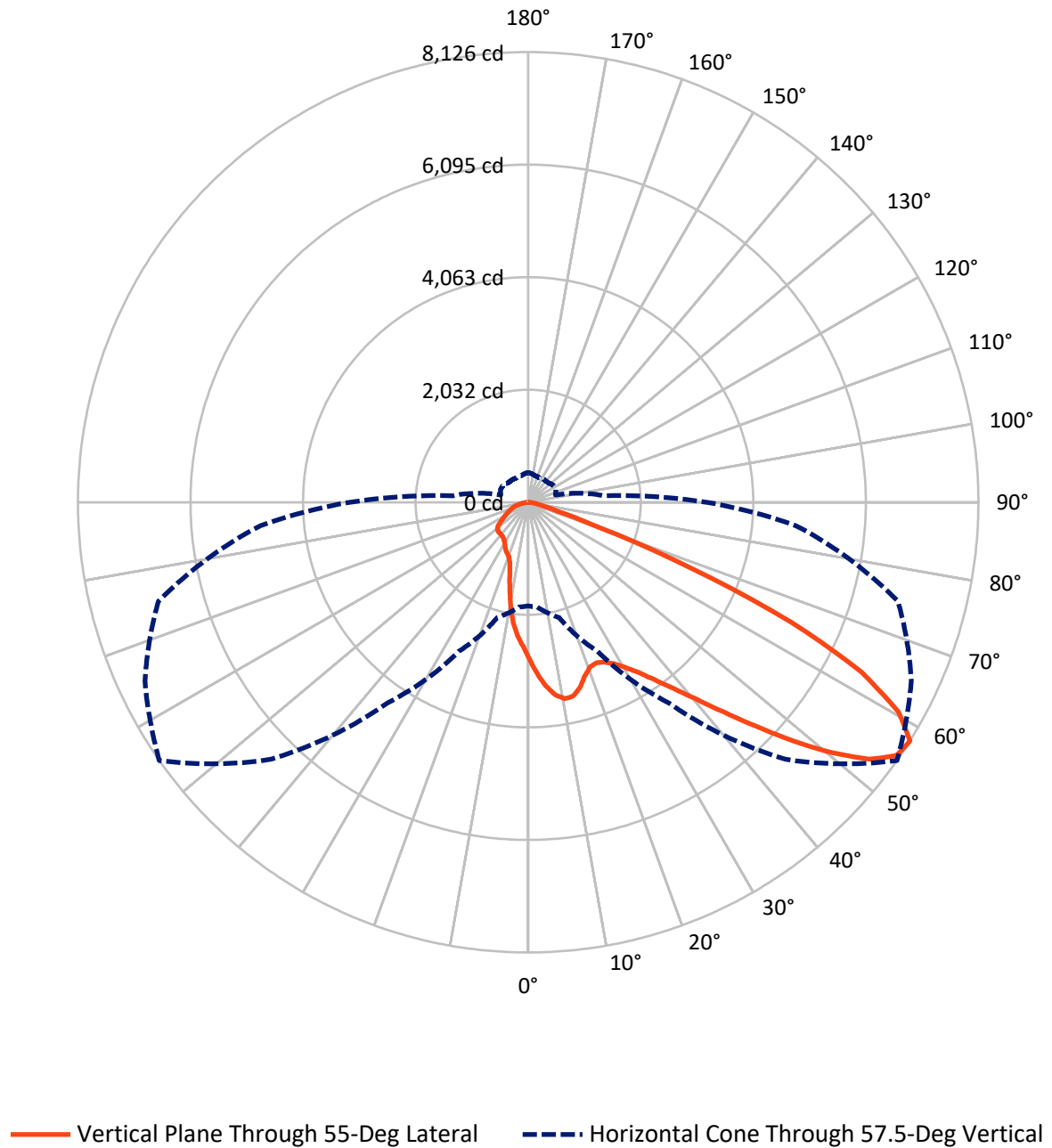


Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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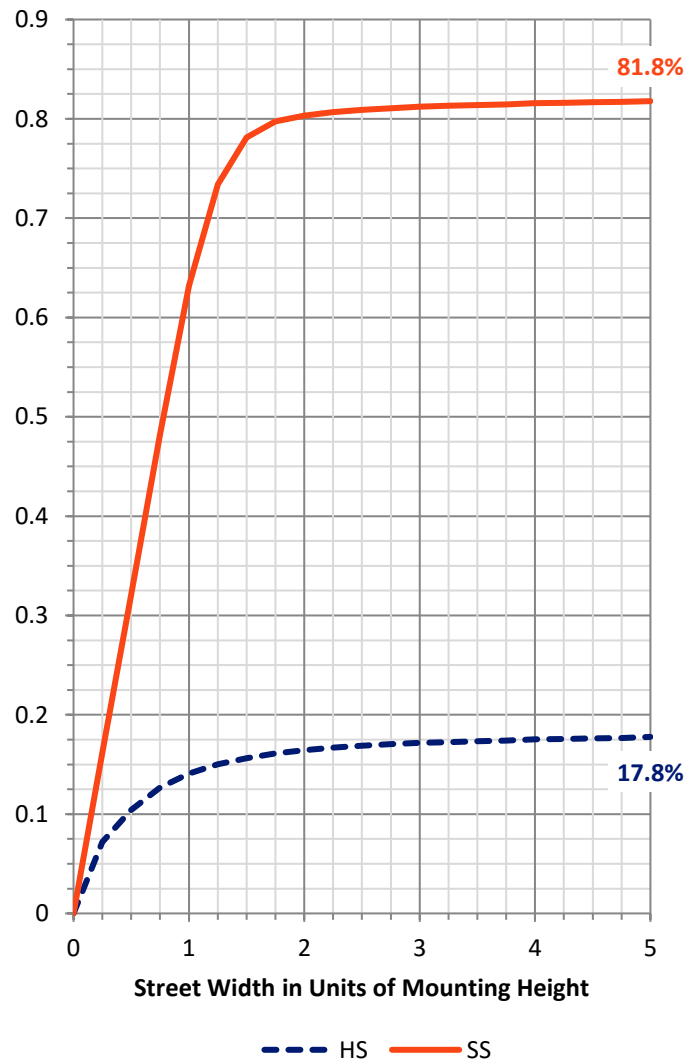
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2046.1	0.0	2046.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	9261.9	0.0	9261.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	11308.0	0.0	11308.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.9	2.3
10°-20°	663.6	5.9
20°-30°	1059.0	9.4
30°-40°	1676.6	14.8
40°-50°	2566.2	22.7
50°-60°	2748.7	24.3
60°-70°	1729.2	15.3
70°-80°	511.4	4.5
80°-90°	90.4	0.8
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°	11308.0	100.0
0°-180°	11308.0	100.0

Coefficient of Utilization



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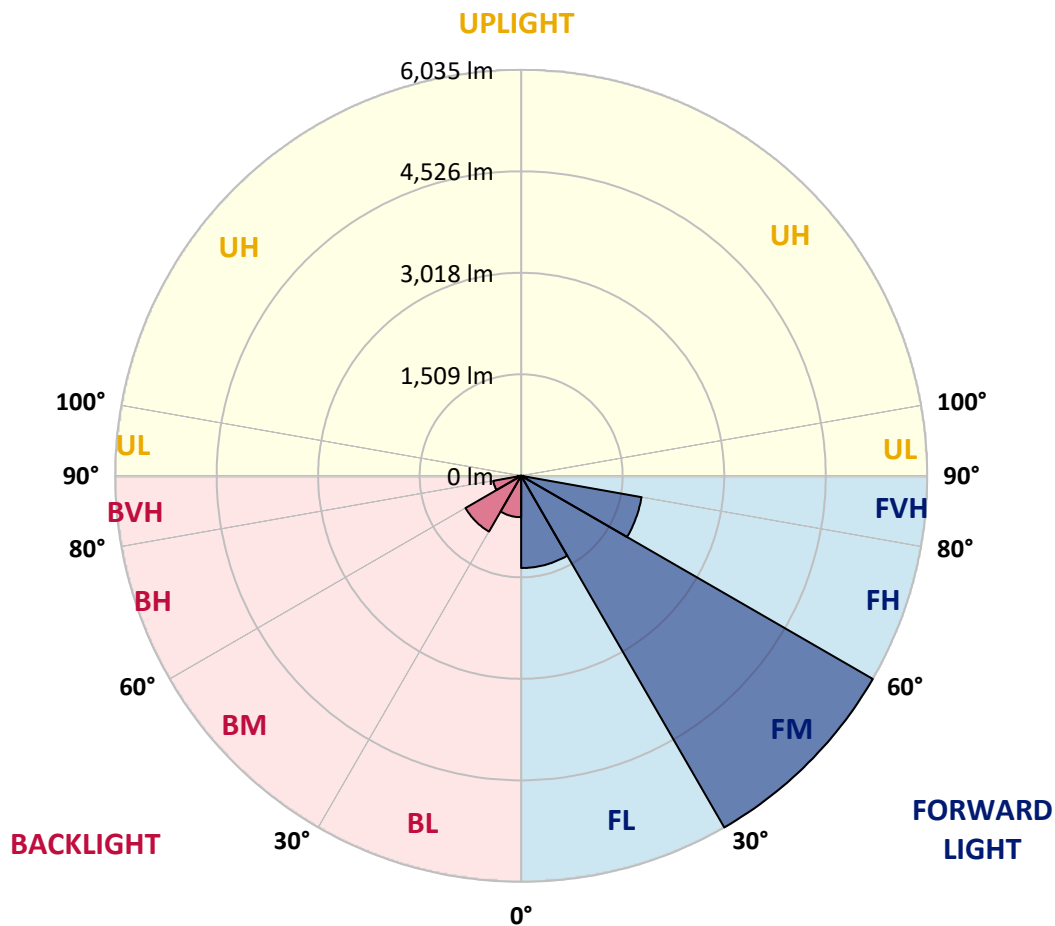
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1370.5	12.1			
FM	(30°-60°)	6035.2	53.4			
FH	(60°-80°)	1818.0	16.1			G2/5000
FVH	(80°-90°)	38.2	0.3			G1/100
BL	(0°-30°)	615.0	5.4	B2/1000		
BM	(30°-60°)	956.3	8.5	B1/1000		
BH	(60°-80°)	422.6	3.7	B1/500		G1/500
BVH	(80°-90°)	52.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2833.4	2833.4	2833.4	2833.4	2833.4	2833.4	2833.4	2833.4	2833.4	2833.4	2833.4
2.5°	3250.8	3248.5	3261.3	3217.5	3187.7	3147.3	3094.1	3026.3	2953.3	2876.1	2842.8
5°	3543.7	3523.2	3536.7	3503.9	3471.2	3410.4	3331.5	3221.0	3086.0	2932.2	2850.4
7.5°	3497.5	3483.5	3518.0	3547.2	3571.7	3564.1	3506.3	3390.5	3216.3	2993.0	2874.3
10°	3125.1	3109.3	3157.9	3259.0	3407.5	3536.7	3606.8	3534.9	3349.6	3059.6	2897.7
12.5°	2796.6	2789.0	2821.1	2903.0	3067.8	3315.7	3593.9	3661.2	3488.1	3138.6	2929.3
15°	2656.3	2646.9	2667.4	2708.9	2814.1	3045.0	3477.0	3747.7	3624.3	3229.8	2979.6
17.5°	2625.3	2614.8	2623.6	2645.2	2713.0	2889.0	3300.5	3790.4	3766.4	3331.5	3021.6
20°	2682.6	2673.8	2675.0	2673.8	2721.2	2860.9	3177.7	3774.0	3890.3	3425.0	3062.6
22.5°	2821.1	2806.5	2807.1	2776.1	2801.9	2910.0	3145.6	3730.2	4000.8	3506.8	3093.6
25°	3046.8	3020.5	3025.7	2946.8	2939.8	3019.9	3195.9	3696.2	4110.7	3572.3	3099.4
27.5°	3355.4	3325.6	3309.8	3192.3	3136.2	3176.0	3298.2	3707.9	4214.8	3629.0	3084.8
30°	3741.3	3705.0	3672.9	3506.3	3404.5	3389.9	3457.2	3785.1	4337.5	3688.6	3059.6
32.5°	4214.2	4172.1	4113.6	3892.7	3749.4	3672.9	3662.9	3922.5	4481.3	3764.6	3046.8
35°	4777.1	4722.2	4639.2	4353.3	4172.1	4015.4	3934.2	4120.6	4678.3	3879.2	3061.4
37.5°	5357.0	5295.0	5219.1	4878.8	4656.1	4425.2	4265.0	4389.5	4940.8	4034.7	3100.0
40°	5891.9	5822.3	5751.6	5448.8	5209.7	4931.4	4670.1	4729.8	5261.7	4220.6	3165.5
42.5°	6207.6	6156.1	6129.2	5965.6	5780.8	5498.5	5174.0	5133.1	5622.4	4434.6	3240.3
45°	6193.5	6172.5	6255.5	6323.3	6279.5	6122.8	5764.5	5579.1	5984.3	4619.9	3309.3
47.5°	5862.7	5876.7	6062.0	6443.1	6610.9	6692.8	6436.7	6017.0	6298.8	4758.4	3340.2
50°	4962.4	4974.1	5403.2	6225.1	6696.3	7157.5	7103.7	6444.3	6542.5	4843.2	3333.2
52.5°	4249.8	4257.4	4441.6	5578.6	6414.5	7391.3	7704.7	6847.1	6720.8	4866.6	3294.1
55°	3201.1	3227.4	3433.8	4376.7	5681.4	7206.0	8070.6	7262.1	6833.6	4868.9	3253.1
57.5°	1870.0	1898.7	2153.6	2970.8	4415.9	6560.1	8126.1	7630.4	6910.2	4850.2	3228.6
60°	916.0	928.3	1039.4	1561.4	2722.9	5315.5	7679.5	7808.7	6952.9	4840.3	3227.4
62.5°	617.3	615.6	620.2	770.5	1341.6	3415.1	6748.9	7496.5	6930.1	4802.3	3215.7
65°	530.8	524.4	506.8	540.7	695.1	1562.0	5214.4	6564.7	6756.5	4707.0	3135.6
67.5°	458.9	459.5	460.1	449.5	496.3	720.8	3186.5	5171.1	6133.3	4255.7	2827.0
70°	380.0	385.2	387.6	387.6	404.5	472.9	1360.3	3544.3	4837.9	3336.7	2276.9
72.5°	346.1	335.0	336.1	330.3	330.3	360.1	547.7	2009.2	3048.0	1877.1	1389.5
75°	282.3	289.4	290.5	286.4	273.0	274.7	325.0	843.0	1304.2	778.6	686.9
77.5°	243.8	243.8	246.1	243.2	232.7	205.8	216.9	326.8	443.7	319.2	343.1
80°	195.8	195.2	205.2	211.0	194.7	152.0	138.5	180.6	197.0	140.3	178.3
82.5°	95.3	101.1	140.9	160.8	147.9	109.9	84.8	112.2	105.2	62.0	80.1
85°	55.5	52.6	63.1	89.4	84.8	60.8	40.9	58.5	54.9	31.6	32.2
87.5°	17.5	16.4	12.9	30.4	24.6	17.0	11.1	17.0	15.2	7.0	7.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2833.4	2833.4	2833.4	2833.4	2833.4	2833.4	2833.4	2833.4	2833.4	2833.4
2.5°	2801.3	2732.3	2663.9	2601.3	2563.3	2538.8	2514.2	2486.8	2476.2	2460.5
5°	2773.2	2639.9	2521.3	2419.0	2326.0	2252.9	2179.3	2119.7	2092.8	2110.9
7.5°	2756.8	2563.9	2381.0	2193.3	2012.7	1868.3	1742.6	1654.3	1614.6	1624.5
10°	2742.2	2478.0	2199.2	1902.8	1643.2	1464.4	1335.7	1268.5	1243.4	1248.6
12.5°	2728.8	2381.5	1979.9	1590.0	1314.1	1196.0	1159.2	1159.8	1164.5	1168.0
15°	2726.4	2265.2	1735.0	1316.5	1136.4	1128.8	1168.6	1193.7	1207.1	1211.2
17.5°	2722.9	2126.1	1485.4	1130.0	1093.1	1144.6	1181.4	1197.8	1208.3	1208.9
20°	2708.9	1949.5	1255.1	1041.1	1083.8	1128.2	1151.0	1163.9	1172.7	1175.6
22.5°	2665.6	1753.1	1075.6	1001.4	1046.4	1082.0	1108.9	1123.5	1128.8	1132.3
25°	2587.9	1533.3	951.7	963.4	994.4	1039.4	1061.0	1063.9	1062.2	1067.4
27.5°	2486.2	1297.7	874.5	911.9	951.7	990.3	1002.0	1000.2	996.7	1002.5
30°	2363.4	1086.1	825.4	854.1	908.4	943.5	954.0	949.9	942.9	949.3
32.5°	2233.6	913.1	785.1	813.7	872.8	907.3	917.8	913.7	908.4	913.7
35°	2112.6	792.1	747.7	786.8	844.7	878.6	892.1	892.6	892.6	899.1
37.5°	2001.6	721.4	716.7	769.9	825.4	855.8	875.1	876.3	851.1	852.9
40°	1898.7	691.5	702.7	758.8	806.7	835.9	837.1	771.6	725.5	724.3
42.5°	1814.5	685.7	706.7	757.6	793.3	794.4	712.0	661.2	648.3	648.9
45°	1735.6	683.9	716.1	757.6	773.4	686.3	630.8	617.3	618.5	623.2
47.5°	1647.3	676.9	717.9	747.1	716.1	610.3	593.9	588.1	585.7	586.9
50°	1550.9	651.8	695.6	726.0	617.9	577.6	557.1	555.3	558.3	560.0
52.5°	1449.2	610.9	657.6	688.0	572.9	548.9	526.1	530.2	543.1	547.2
55°	1382.5	562.9	607.4	612.0	541.3	522.0	502.7	512.1	536.1	543.7
57.5°	1365.0	512.1	550.1	544.8	501.0	498.6	486.9	495.1	525.5	536.6
60°	1359.7	466.5	494.0	489.9	461.8	472.9	470.0	474.1	484.6	488.1
62.5°	1318.8	430.2	443.7	437.8	426.7	446.0	453.0	444.3	452.5	456.6
65°	1214.7	401.0	394.6	390.5	395.2	412.7	426.7	409.2	416.8	428.5
67.5°	1042.9	361.3	343.7	348.4	363.0	372.4	390.5	370.6	377.0	396.9
70°	843.5	311.0	295.2	308.7	322.7	342.0	344.9	331.5	346.7	368.9
72.5°	596.8	260.1	249.0	276.5	281.2	306.3	299.9	293.5	314.5	322.1
75°	413.9	209.9	203.4	224.5	241.4	263.1	258.4	266.0	310.4	313.9
77.5°	261.9	163.1	159.0	172.4	195.8	219.8	227.4	313.9	530.2	551.3
80°	152.0	121.6	116.9	127.4	147.9	170.1	219.2	385.2	349.6	345.5
82.5°	84.8	83.6	77.7	80.7	98.8	122.8	309.8	271.2	220.4	227.4
85°	39.8	49.1	42.1	40.3	55.5	143.8	206.9	154.9	102.9	100.5
87.5°	10.5	9.4	9.4	10.5	23.4	123.9	82.4	66.1	39.2	38.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)